

Connectors – Multipole

Latest Products from...

Circular Multipole

Amphenol



See page 1605

Rectangular Multipole

Tyco Electronics



See page 1621

Heavy Duty Connectors

HARTING
Pushing Performance



See page 1650

Circular Multipole MIL-C-5015

ITT
Engineered for life

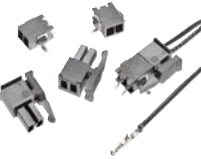
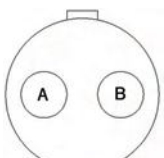


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Multipole

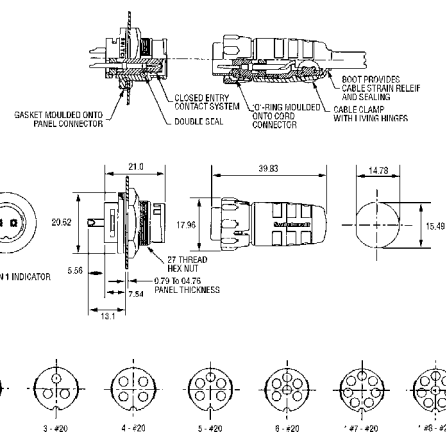
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Sealed

'EN3' Weathertight Connectors - IP68
Solder Bucket Contacts

Switchcraft



7 and 8 pin not available in cord male and panel female

- Compact panel mount, cord connector or inline connector
- Excellent moisture and chemical resistance
- IP68 rated
- Housing **UL94V-0**
- 2 to 12 pins
- Solder bucket contacts
- No grommets
- Low insertion force
- 12 pin has staggered contacts
- Inline plugs and sockets mate with free plugs and sockets

Contact rating	7.5A @600Vr.m.s	Housing	Thermoplastic rubber
Contact resistance	3.1mΩ(max)	Contact	Copper Alloy, Gold over Nickel plating
Insulation resistance	100MΩ@ 77°F	Termination	Solder Bucket
Mating cycles	600 (minimum)	Cable dia.	5–7mm
Temperature range	-40°C to 65°C		

NOTE: 1) 7 and 8 pin not available in cord male and panel female
2) Panel EN3 only mates with cord EN3

249694/406548

Order Multiple=1		Mfrs. List No.	Price Each	
No. of Ways		Order Code	1+	10+
Free Plug – Solder bucket contacts				
2	EN3C2M-F	168-5939●	3.52	3.26
3	EN3C3M-F	168-5941●	4.08	3.88
4	EN3C4M-F	168-5943●	4.89	4.56
5	EN3C5M-F	168-5945●	5.57	5.13
6	EN3C6M-F	168-5948●	6.06	5.62
Free Socket – Solder bucket contacts				
2	EN3C2F-F	168-5938●	5.08	4.74
3	EN3C3F-F	168-5940●	6.32	5.92
4	EN3C4F-F	168-5942●	7.65	7.19
5	EN3C5F-F	168-5944●	8.67	8.07
6	EN3C6F-F	168-5947●	8.98	8.34
7	EN3C7F-F	168-5949●	10.47	9.44
8	EN3C8F-F	168-5950●	11.68	10.52
Panel Plug – Solder bucket contacts				
2	EN3P2M-F	168-5959●	3.38	3.12
3	EN3P3M-F	168-5962●	3.97	3.68
4	EN3P4M-F	168-5964●	4.67	4.32
5	EN3P5M-F	168-5966●	5.31	4.94
6	EN3P6M-F	168-5968●	5.52	5.12
7	EN3P7M-F	168-5969●	6.38	5.72
8	EN3P8M-F	168-5970●	7.01	6.37
Panel Socket – Solder bucket contacts				
2	EN3P2F-F	168-5957●	3.97	3.74
3	EN3P3F-F	168-5961●	5.24	4.89
4	EN3P4F-F	168-5963●	6.33	5.91
5	EN3P5F-F	168-5965●	7.33	6.83
6	EN3P6F-F	168-5967●	8.29	7.73
Inline Plug – Solder bucket contacts				
2	EN3L2M-F	168-5952●	3.58	3.34
3	EN3L3M-F	168-5954●	4.18	3.92
4	EN3L4M-F	168-5956●	4.57	4.33
Inline Socket – Solder bucket contacts				
2	EN3L2F-F	168-5951●	4.58	4.24
3	EN3L3F-F	168-5953●	5.50	5.11
4	EN3L4F-F	168-5955●	6.58	6.12
Sealing cap				
	EN3CAP	117-9425●	1.22	0.77

Miniature Waterproof Circular Connector

Tajimi R04 Series



- Waterproof to 20M
- Lightweight

Shell	Brass & Zinc Alloy, Nickel plated	Insulation resistance	500V dc 1,100MΩmin
Contact	Copper Alloy, Goldplated	Contact resistance	8mΩ(max) @ 3V dc
Insulation	PBT Resin to UL 94V-0	Shock	50G
		Vibration	MIL-STD-202-201A
		Moisture resistance	MIL-STD-202-103B
		Corrosion	MIL-STD-202-101D
		Temperature	-25 to +85°C
		Withstand water pressure	25kg/cm ² (atg)

Mfrs. List Nos. Male cable plug R04-PxM, Female cable plug R04-PxF,
Male cable jack R04-JxM, Female cable jack R04-JxF,
Male panel receptacle R04-RxM,
Female panel receptacle R04-RxF,
Protective cap R04-CRx

Where x = No. of ways

209283

No. of Ways	Order Code	1+	10+	25+	50+	100+	250+
Male Cable Plug							
3	117-2754●	10.18	9.43	8.35	7.75	7.46	6.73
8	119-0439●	20.42	18.95	16.78	15.54	14.96	13.55
12	119-0442●	22.97	21.33	18.89	17.48	16.84	15.23
Female Cable Plug							
3	119-0443●	9.92	9.19	8.17	7.54	7.27	6.59
8	119-0444●	13.48	12.52	11.09	10.29	9.90	8.95
12	119-0445●	18.67	17.30	15.34	14.22	13.66	12.37



No. of Ways	Order Code	1+	10+	25+	50+	100+	250+
Female Cable Jack							
5	119-0446●	14.92	13.84	12.25	11.35	10.93	9.89
8	119-0447●	17.52	16.25	14.42	13.34	12.84	11.63
Male Panel Receptacle							
8	119-0449●	5.60	5.18	4.61	4.26	4.09	3.73
12	119-0450●	15.09	13.99	12.41	11.49	11.05	9.98
Female Panel Receptacle							
5	119-0452●	4.32	4.00	3.56	3.29	3.17	2.84
8	119-0454●	5.20	4.81	4.26	3.97	3.83	3.45
12	119-0455●	14.27	13.24	11.77	10.87	10.47	9.47
Protective Cap							
3/5	119-0456●	6.12	5.64	5.00	4.62	4.45	4.07
8	119-0457●	4.78	4.40	3.90	3.61	3.47	3.18
12	119-0458●	9.16	8.44	7.48	6.92	6.66	6.10

Miniature waterproof plastic connectors

HR30 Series



- Water and dust protected IP67
- Simple pull lock release
- Light weight, corrosion resistant
- Contact protection and self-alignment
- Visual alignment indicators
- Built-in cable strain relief

484195

Description	No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+
Plug, Solder							
Female	3	HR30-6P-3S(71)	142-5743●	8.140	7.140	6.140	5.460
Male	6	HR30-6P-6P(71)	142-5745●	5.400	5.080	4.160	3.710
Female	6	HR30-6P-6S(71)	142-5744●	4.730	4.460	3.760	3.350
Female	12	HR30-7P-12S(71)	142-5749●	6.430	6.050	5.790	5.330
Male	12	HR30-8P-12P(71)	142-5750●	6.080	5.720	5.490	5.010
Female, Fine Wire	3	HR30-6PA-3S(71)	142-5746●	8.170	7.140	6.140	5.460
Male, Fine Wire	6	HR30-6PA-6P(71)	142-5748●	5.400	5.080	4.160	3.710
Female, Fine Wire	6	HR30-6PA-6S(71)	142-5747●	4.740	4.500	3.760	3.350
Plug, Crimp							
Female	10	HR30-7P-10SC(71)	142-5751●	4.240	4.000	3.360	3.000
Female	12	HR30-7P-12SC(71)	142-5752●	4.250	4.010	3.360	3.000
Male	12	HR30-8P-12PC(71)	142-5753●	4.250	4.010	3.360	3.000
Receptacle, Solder							
Male	3	HR30-6R-3P(71)	142-5755●	5.490	5.200	4.300	3.830
Female	6	HR30-6R-6P(71)	142-5756●	4.370	4.140	3.360	3.000
Female	6	HR30-6R-6S(71)	142-5757●	4.480	4.240	4.070	3.740
Male	12	HR30-7R-12P(71)	142-5758●	5.330	5.010	4.810	4.390
Female	12	HR30-8R-12S(71)	142-5759●	5.650	5.320	5.070	4.670
Receptacle, Crimp							
Male, crimp	10	HR30-7R-10PC(71)	142-5760●	3.160	2.970	2.760	2.480
Male, crimp	12	HR30-7R-12PC(71)	142-5761●	3.190	3.000	2.760	2.480
Female, crimp	12	HR30-8R-12SC(71)	142-5762●	3.190	3.000	2.760	2.480
Receptacle, Through Hole							
Male, Through Hole	6	HR30-6R-6PD(71)	142-5763●	3.740	3.520	3.340	3.100
Female, Through Hole	6						
Hole		HR30-6R-6SD(71)	142-5764●	4.640	4.410	4.210	3.860
Male, Through Hole	12	HR30-7R-12PD(71)	142-5765●	5.450	5.130	4.920	4.500
Female, Through Hole	12						
Hole		HR30-8R-12SD(71)	142-5767●	5.650	5.320	5.070	4.670
Jack, Solder							
Male	6	HR30-6J-6P(71)	142-5768●	5.080	4.780	4.030	3.590
Male	6	HR30-6JA-6P(71)	142-5769●	4.480	4.240	4.020	3.720
Male	12	HR30-7J-12P(71)	142-5770●	6.220	5.840	5.570	5.150
Female	12	HR30-8J-12S(71)	142-5771●	6.080	5.720	5.480	5.060
Jack, Crimp							
Male	10	HR30-7J-10PC(71)	142-5772●	4.040	3.810	3.490	3.140
Male	12	HR30-7J-12PC(71)	142-5773●	4.040	3.810	3.490	3.140
Female	12	HR30-8J-12SC(71)	142-5774●	4.040	3.810	3.490	3.140
Accessories							
Cap, Plug size 6		HR30-6P-C(71)	142-5775●	1.730	1.540	1.310	1.160
Cap, Plug size 7		HR30-7P-C(71)	142-5776●	1.730	1.540	1.310	1.160
Cap, Plug size 8		HR30-8P-C(71)	142-5777●	1.730	1.540	1.310	1.160
Cap, Receptacle size 6		HR30-6R-C(71)	142-5779●	1.730	1.540	1.310	1.160
Cap, Receptacle size 7		HR30-7R-C(71)	142-5781●	1.730	1.540	1.310	1.160
Crimp contact, Male		HR30-PC-111	142-5782●	0.157	0.143	0.130	--
Crimp contact, Female							
Crimp Hand Tool		HR30-SC-111	142-5784●	0.157	0.143	0.130	--
		HT-102/HR30-1	142-5785●	740.710	--	--	--

Miniature Waterproof Shielded Connectors

LF Series



- Simple assembly and connection of shielded cable
- Water and dust protected
- Bayonet Lock
- High current carrying capacity
- Safety standards compliance

Current Rating	3 way 5A 4 way 10A 6 and 12 way 2A	Durability	1000 cycles
Voltage Rating	125V AC	Contacts	Copper Alloy
Operating Temperature	-25°C to 85°C	Colour	Black

Sealed - continued

Miniature Waterproof Shielded Connectors - continued

LF Series - continued

493981

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+
Receptacle					
3 Female Pins	LF07WBR-3S	151-8763●	5.75	5.35	5.00
3 Male Pins	LF07WBR-3P	151-8764●	5.75	5.35	5.00
4 Female Pins	LF10WBR-4S	151-8748●	6.63	6.17	5.76
4 Male Pins	LF10WBR-4P	151-8749●	6.63	6.17	5.76
6 Female Pins	LF07WBR-6S	151-8761●	5.87	5.48	5.11
6 Male Pins	LF07WBR-6P	151-8762●	5.62	5.23	4.90
12 Female Pins	LF10WBR-12S	151-8750●	8.69	8.09	7.56
12 Male Pins	LF10WBR-12P	151-8751●	8.18	7.62	7.12
Plug					
3 Female Pins	LF07WBP-3S	151-8767●	12.56	11.69	10.93
3 Male Pins	LF07WBP-3P	151-8769●	12.56	11.69	10.93
4 Female Pins	LF10WBP-4S	151-8752●	13.90	12.94	12.09
4 Male Pins	LF10WBP-4P	151-8753●	13.90	12.94	12.09
6 Female Pins	LF07WBP-6S	151-8765●	12.43	11.58	10.82
6 Male Pins	LF07WBP-6P	151-8766●	12.19	11.33	10.60
12 Female Pins	LF10WBP-12S	151-8754●	15.72	14.61	13.67
12 Male Pins	LF10WBP-12P	151-8755●	15.22	14.16	13.23
Jack					
3 Female Pin	LF07WBJ-3S	151-8773●	11.25	10.47	9.79
3 Male Pin	LF07WBJ-3P	151-8774●	11.25	10.47	9.79
4 Female Pin	LF10WBJ-4S	151-8757●	12.59	11.72	10.96
4 Male Pin	LF10WBJ-4P	151-8758●	12.56	11.69	10.93
6 Female Pin	LF07WBJ-6S	151-8771●	11.37	10.58	9.90
6 Male Pin	LF07WBJ-6P	151-8772●	11.12	10.35	9.68
12 Female Pin	LF10WBJ-12S	151-8759●	14.41	13.41	12.53
12 Male Pin	LF10WBJ-12P	151-8760●	13.90	12.94	12.09

Series '101', '102', & '103'

W.W. FISCHER

- A range of high quality circular connectors
- Positive plug/socket latching
- Pressure tight and high vacuum sealed designs
- Low contact resistance
- Excellent RF/EMC shielding capability
- The series includes: circular multipole, coax and triax connectors
- IP68 rated

		3	4	5	7	12
Current rating (A)	Series 102	8.2	5.5	5.2	2.0	—
Per contact, all loaded	Series 103	—	—	—	5.0	2.0
Dielectric withstand	Series 102	1.3	1.2	0.8	0.8	—
Voltage kVac	Series 103	—	—	—	1.3	1.2

Contact resistance	≤8mΩ
Insulation resistance	1000GΩ
Temperature range	(standard) (sealed) -65°C to +200°C -65°C to +200°C
Mating life	>5000 cycles
Body Material	Brass, nickel/chromium plating
Contacts (plugs)	Brass, 4μ nickel/1μm gold plating
(socket)	Phosphor bronze, 4μm nickel/1μm gold plating
Insulator	PEEK (polyether-etherbetone) UL94V-0, UL-746 200°C
Sealed versions:	Protection IP68 (80 metres) Max pressure 8 bar

209222

Series '101'

Coaxial Push/Pull, Self Locking

W.W. FISCHER

965-753
Plug965-765
Socket (standard)

- Free plug complete with 5.1mm cable clamp for RG174 coaxial cable
- Provides excellent RF/EMC shielding
- Fully compatible with NIM-CAMAC-CD/N 549

Dimension	Depth behind panel	Max. panel thickness
A B C 6.7 6.4 7.1	141414	777

209221

	Mfrs. List No.	Order Code	1+	5+	10+	50+	100+
Free plug	S101A004/3.0	965-753●	6.33	5.99	5.75	4.99	4.74
Panel socket	D101A004	965-765●	4.73	4.21	4.03	3.85	3.68

700 products added online every week

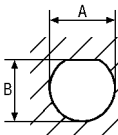
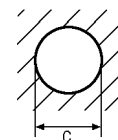


See our pick of the hottest products and latest technologies in 'What's New?' at www.farnell.co.uk

Series '102'

Circular and Coaxial

W.W. FISCHER



- A range of circular multipole and coaxial connectors

Dimension	Depth behind panel	Max. panel thickness
A B C 9.1 8.5 10.1	standard sealed 17.5 18	standard sealed 9 3.5

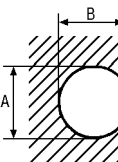
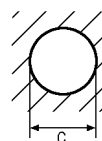
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No. of Ways	Mfrs. List No.	Order Code	1+	5+	10+	50+
Free Plug						
3	SE102A052-130	964-967●	14.70	13.25	12.70	12.18
4	SE102A053-130	964-979●	15.44	13.91	13.33	12.77
5	SE102A054-130	964-980●	17.05	15.36	14.71	14.09
7	SE102A056-130	964-992●	17.53	15.61	14.93	14.28
Panel Socket						
3 standard	D102A052-130	965-005●	9.28	8.36	8.00	7.65
4 standard	D102A053-130	965-017●	11.02	9.92	9.48	9.40
5 standard	D102A054-130	965-029●	11.02	10.14	9.81	9.49
7 standard	D102A056-130	965-030●	16.68	14.85	14.21	13.60
3 sealed IP68	DBEE102A052-130	965-042●	16.65	15.79	15.42	14.24
4 sealed IP68	DBEE102A053-130	965-054●	15.78	14.98	14.63	13.60
5 sealed IP68	DBEE102A054-130	965-066●	18.03	17.12	16.73	15.47
7 sealed IP68	DBEE102A056-130	965-078●	22.34	21.21	20.72	18.99
Panel/PCB Socket 90°						
3 Way	DBPC102A052-130	628-554●	14.26	13.15	12.89	12.36
7 Way	DBPC102A056-130	629-273●	19.83	18.62	18.25	17.53
Coaxial						
Free Plug	SE102A002	965-698●	12.60	11.89	11.37	9.89
Panel Skt (IP68)	DBEE102A002	965-716●	15.10	14.23	13.63	11.84
Cable Clamps						
Cable range (mm)						
2.1 to 2.6	E31102.2/2.6+B	965-080●	3.24	2.89	2.78	2.66
2.6 to 3.1	E31102.2/3.1+B	965-091●	3.24	2.89	2.78	2.66
3.1 to 3.6	E31102.2/3.6+B	965-108●	3.35	2.99	2.87	2.75
3.6 to 4.1	E31102.2/4.1+B	965-110●	3.24	2.89	2.78	2.66
4.1 to 4.3	E31102.2/4.3+B	965-121●	3.24	2.89	2.78	2.66

Series '103'

Circular and Triaxial

W.W. FISCHER



- A range of circular multipole and triaxial connectors

Dimension	Depth behind panel	Max panel thickness
A B C 12.1 11.2 14.1	standard sealed 21 11	standard sealed 8.0 4.0

209223

No of Ways	Mfrs. List No.	Order Code	1+	5+	10+	50+	100+
Free Plug							
7	SE103A057-130	965-133●	21.59	20.51	19.64	17.05	16.25
12	SE103A062-130	965-145●	30.88	29.33	28.09	24.38	23.23
Panel Socket							
7 standard	D103A057-130	965-157●	18.90	17.84	17.06	14.84	14.11
7 sealed (IP68)	DBEE103A057-130	965-170●	28.76	27.08	25.95	22.37	21.33
12 sealed (IP68)	DBEE103A062-130	965-182●	35.79	33.76	32.31	28.09	26.74
Triaxial							
Free plug	SE103A015-14	965-728●	15.65	14.77	14.14	12.27	11.70
Panel skt (std)	D103A015-14	965-730●	11.22	10.59	10.10	8.79	8.37
Panel skt (IP68)	DBEE103A015	965-741●	29.73	28.03	26.83	23.33	22.21

No of Ways	Mfrs. List No.	Order Code	1+	5+	10+	50+	100+
Cable Clamps							
3.2 to 3.7	E31103.2/3.7+B	965-194●	3.63	3.44	3.30	2.87	2.73
3.7 to 4.2	E31103.2/4.2+B	965-200●	3.63	3.44	3.30	2.87	2.73
4.2 to 4.7	E31103.2/4.7+B	965-212●	3.63	3.44	3.30	2.87	2.73
4.7 to 5.2	E31103.2/5.2+B	965-224●	3.63	3.44	3.30	2.87	2.73
5.2 to 5.7	E31103.2/5.7+B	965-236●	3.63	3.44	3.30	2.87	2.73

Accessories

W.W. FISCHER



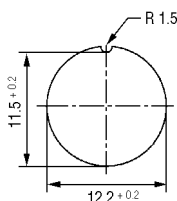
- A range of colour coded strain reliefs and washers
- Protective sleeves, plug and socket caps

209215

No of Ways	Mfrs. List No.	Order Code	1+	5+	10+	50+	100+
Strain relief							
Series 102 Blue	E4102.192.4	965-250●	3.85	3.65	3.50	3.06	2.92
Series 103 Blue	E4103.190.4	965-285●	4.32	4.10	3.92	3.42	3.23
Order Multiple=1							
Protective Sleeve							
Series 102	102.785	965-376●	4.18	3.96	3.89	1.71	1.57
Series 103	103.861	965-388●	3.47	3.23	3.12	2.71	2.51
Protective Socket Caps							
Series 102	102.1947	811-5133●	3.38	3.06	2.95	2.85	2.64

Subminiature Connector
Triad '01'

tyco / Electronics TRIAD 01



- A range of board, panel and cable mount connectors
- Excellent 360 deg. EMC shielding properties
- Body shell same size for all number of ways
- 'T' adaptor and terminator accessories
- IP65 rated

Current rating	3A (3, 4 & 5 way) 1A (7 & 8 way)	Housing	Copper, zinc, tribo plating 4µm
Voltage rating	60V ac	Dielectric	PBT UL94V-0
Contact resistance	≤2mΩ (3, 4 & 5 way) ≤5mΩ (7 & 8 way)	Termination	Solder
Temperature range	-40°C to +85°C		
Mating cycles	≥500		

209242

No. of Ways	Mfrs. List No.	Order Code	1+	10+	25+	50+
Free Plug						
3	T01-0550-P03	130-722●	8.21	7.25	6.25	5.58
4	T01-0550-P04	130-734●	11.72	10.37	8.97	8.01
5	T01-0550-P05	130-746●	9.53	8.37	7.28	6.52
7	T01-0550-P07	130-758●	11.39	10.06	8.69	7.78
8	T01-0550-P08	130-760●	15.24	13.44	11.64	10.37
Free Socket						
3	T01-0550-S03	130-771●	18.38	16.24	14.10	12.54
4	T01-0550-S04	130-783●	12.15	10.73	9.30	8.29
5	T01-0550-S05	130-795●	14.16	12.54	10.88	9.71
7	T01-0550-S07	130-801●	12.80	11.29	9.78	8.70
8	T01-0550-S08	130-813●	14.74	13.02	11.29	10.04
Panel Plug—Solder bucket contact						
3	T01-0580-P03	130-850●	7.37	6.50	5.64	5.05
4	T01-0580-P04	130-862●	6.89	6.08	5.26	4.70
5	T01-0580-P05	130-874●	8.15	7.19	6.23	5.58
7	T01-0580-P07	130-886●	17.52	15.49	13.37	11.93
8	T01-0580-P08	130-898●	16.99	15.04	13.00	11.61

No. of Ways	Mfrs. List No.	Order Code	1+	10+	25+	50+
Panel Socket—Solder bucket contact						
3	T01-0580-S03	130-904●	7.94	7.01	6.04	5.39
4	T01-0580-S04	130-916●	8.35	7.40	6.38	5.68
5	T01-0580-S05	130-928●	8.90	7.88	6.80	6.04
7	T01-0580-S07	130-930●	10.02	8.90	7.69	6.87
8	T01-0580-S08	130-941●	10.31	9.12	7.89	7.00
Straight PCB Socket						
3	T01-0570-S03	131-052●	5.71	5.03	4.34	3.90
4	T01-0570-S04	131-064●	7.37	6.52	5.61	5.00
5	T01-0570-S05	131-076●	8.90	7.88	6.80	6.04
7	T01-0570-S07	131-088●	11.47	10.14	8.77	7.82
8	T01-0570-S08	131-090●	13.52	11.97	10.35	9.20
90 PCB Plug						
3	T01-0560-P03	130-825●	6.41	5.67	4.90	4.34
4	T01-0560-P04	130-837●	9.79	8.63	7.50	6.72
5	T01-0560-P05	130-849●	7.77	6.89	5.94	5.30
90 PCB Socket						
3	T01-0560-S03	131-027●	6.74	5.99	5.16	4.59
4	T01-0560-S04	131-039●	9.22	8.15	7.05	6.26
5	T01-0560-S05	131-040●	10.89	9.56	8.29	7.41
Dust Caps						
Plug	T01-0500-P	130-953●	1.24	1.11	0.92	0.83
Socket	T01-0500-S	130-965●	1.55	1.50	1.45	1.40

Cable Assembly

Tyco Electronics



- Overmoulded 3 metre cable assembly
- Pre-wired with plug and socket
- 3 through to 8 way
- Ready to use and interfaces with panel, pcb plugs and sockets
- Shielded construction

209244

No. of ways	Mfrs. List No.	Order Code	1+	10+	25+	50+
3	T01-0599-B03-B	130-977●	22.70	20.06	17.36	15.49
4	T01-0599-B04-B	130-989●	31.10	27.51	23.78	21.19
5	T01-0599-B05-B	130-990●	22.92	20.26	17.51	15.62
7	T01-0599-B07-B	131-003●	36.82	32.52	28.15	25.10
8	T01-0599-B08-B	131-015●	44.44	39.26	33.98	30.36

Mini-Con-X

Field Installable Connectors

conxall



- Miniature weatherproof connectors for industrial and marine applications
- High Impact area, non corrosive moulded construction
- UL Recognised
- IP67 Rated

3XX = 3DC

489290

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+
Free Socket						
2	6282-2SG-3XX	142-6056●	3.46	3.13	2.85	2.50
3	6282-3SG-3XX	142-6061●	4.20	3.76	3.43	3.01
4	6282-4SG-3XX	142-6063●	4.83	4.31	3.91	3.44
5	6282-5SG-3XX	142-6065●	5.45	4.89	4.44	3.90
6	6282-6SG-3XX	142-6067●	5.83	5.23	4.76	4.19
Free Plug						
2	6282-2PG-3XX	142-6058●	2.68	2.40	2.18	1.91
3	6282-3PG-3XX	142-6062●	3.06	2.74	2.50	2.19
4	6282-4PG-3XX	142-6064●	3.26	2.94	2.68	2.35
5	6282-5PG-3XX	142-6066●	3.45	3.10	2.81	2.48
6	6282-6PG-3XX	142-6068●	3.61	3.23	2.94	2.58
Panel Mount Socket						
2	7282-2SG-300	142-6069●	2.63	2.06	1.81	1.64
3	7282-3SG-300	142-6071●	3.35	2.61	2.29	2.08
4	7282-4SG-300	142-6074●	3.98	3.13	2.73	2.49
5	7282-5SG-300	142-6076●	4.69	3.62	3.18	2.89
6	7282-6SG-300	142-6078●	5.32	4.15	3.63	3.30
Panel Mount Plug						
2	7282-2PG-300	142-6070●	2.24	1.74	1.54	1.39
3	7282-3PG-300	142-6073●	2.42	2.14	1.88	1.71
4	7282-4PG-300	142-6075●	2.93	2.53	2.21	2.01
5	7282-5PG-300	142-6077●	3.23	2.88	2.52	2.30
6	7282-6PG-300	142-6079●	3.42	3.08	2.79	2.46
In-Line Socket						
2	8282-2SG-3XX	142-6116●	3.40	3.06	2.79	2.45
3	8282-3SG-3XX	142-6118●	4.05	3.64	3.31	2.91
4	8282-4SG-3XX	142-6120●	4.55	4.08	3.71	3.26
5	8282-5SG-3XX	142-6123●	5.10	4.56	4.15	3.65
6	8282-6SG-3XX	142-6125●	4.37	3.91	3.55	3.12



Sealed - continued

Mini-Con-X - continued

Field Installable Connectors - continued

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+
In-Line Plug						
3	8282-3PG-3XX	142-6119●	3.01	2.71	2.48	2.16
4	8282-4PG-3XX	142-6122●	3.33	3.00	2.73	2.40
5	8282-5PG-3XX	142-6124●	3.71	3.31	3.03	2.65
6	8282-6PG-3XX	142-6127●	4.39	3.93	3.58	3.14

Multi-Con-X

Field Installable Connectors



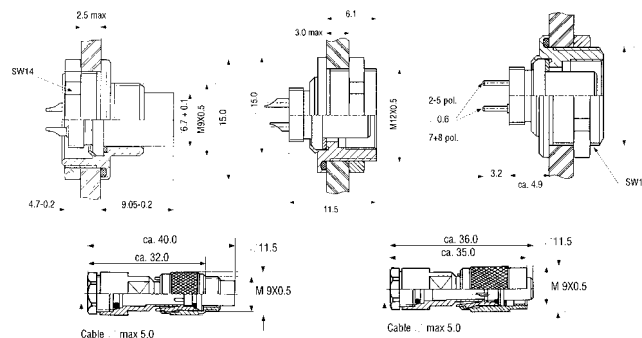
- Weatherproof connectors for industrial and marine applications
- High Impact area, non corrosive moulded construction
- UL Recognised
- IP67 Rated

Suffix 3XX = 3DK or Daisy Chain grommet with three I.D.S (0.125, 0.188 & 0.25 mm)

489300

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+
Free Socket						
2	3182-2SG-3XX	142-6080●	4.85	4.34	3.95	3.46
3	3182-3SG-3XX	142-6082●	5.78	5.16	4.70	4.14
4	3282-4SG-3XX	142-6085●	4.44	3.99	3.64	3.19
5	3282-5SG-3XX	142-6087●	4.86	4.34	3.95	3.46
6	3282-6SG-3XX	142-6089●	5.68	5.08	4.61	4.05
7	3282-7SG-3XX	142-6091●	6.79	6.10	5.55	4.88
8	3282-8SG-3XX	142-6093●	7.05	6.31	5.74	5.05
9	3282-9SG-3XX	142-6095●	7.13	6.38	5.80	5.10
Free Plug						
2	3182-2PG-3XX	142-6081●	4.03	3.61	3.28	2.89
3	3182-3PG-3XX	142-6083●	4.41	3.95	3.60	3.16
4	3282-4PG-3XX	142-6086●	2.90	2.59	2.36	2.06
5	3282-5PG-3XX	142-6088●	2.61	2.36	2.15	1.89
6	3282-6PG-3XX	142-6090●	2.85	2.55	2.33	2.04
7	3282-7PG-3XX	142-6092●	4.16	3.74	3.39	2.99
8	3282-8PG-3XX	142-6094●	4.33	3.89	3.55	3.11
Panel Mount Socket						
2	4182-2SG-300	142-6098●	3.88	2.97	2.59	2.36
3	4182-3SG-300	142-6100●	4.90	3.82	3.35	3.04
4	4282-4SG-300	142-6103●	4.31	3.42	3.00	2.72
5	4282-5SG-300	142-6105●	5.16	4.01	3.53	3.20
6	4282-6SG-300	142-6107●	5.70	4.43	3.88	3.53
7	4282-7SG-300	142-6109●	6.48	4.91	4.31	3.91
8	4282-8SG-300	142-6111●	6.80	5.48	4.82	4.37
9	4282-9SG-300	142-6113●	7.61	5.97	5.23	4.75
Panel Mount Plug						
2	4182-2PG-300	142-6099●	3.16	2.45	2.15	1.95
3	4182-3PG-300	142-6101●	4.23	3.06	2.68	2.44
4	4282-4PG-300	142-6104●	3.70	2.84	2.49	2.27
5	4282-5PG-300	142-6106●	3.39	3.04	2.75	2.43
6	4282-6PG-300	142-6108●	3.89	3.48	3.12	2.78
7	4282-7PG-300	142-6110●	4.82	3.92	3.44	3.12
8	4282-8PG-300	142-6112●	4.69	4.20	3.74	3.36
9	4282-9PG-300	142-6115●	5.02	4.52	4.02	3.61
In-Line Socket						
2	5182-2SG-3XX	142-6128●	3.97	3.57	3.25	2.86
3	5182-3SG-3XX	142-6130●	7.03	6.29	5.71	5.03
4	5282-4SG-3XX	142-6132●	5.23	4.69	4.27	3.75
6	5282-6SG-3XX	142-6135●	8.06	7.20	6.55	5.76
7	5282-7SG-3XX	142-6137●	9.80	8.78	7.98	7.01
In-Line Plug						
2	5182-2PG-3XX	142-6129●	4.30	3.86	3.51	3.08
3	5182-3PG-3XX	142-6131●	6.78	6.06	5.51	4.85
4	5282-4PG-3XX	142-6134●	5.74	5.14	4.66	4.10
6	5282-6PG-3XX	142-6136●	6.59	5.90	5.36	4.71
7	5282-7PG-3XX	142-6139●	6.89	6.16	5.60	4.93

Subminiature Circular 'Series 712'



- A range of small rugged connectors
 - Free plug and socket incorporate cable clamp pinch ring
 - IP67 rating when mated
- | | | |
|---------------------------------------|---|-------------------|
| Contact rating | 3A @ 60V ac | (2, 3, 4 & 5 way) |
| | 1A @ 60V ac | (7 & 8 way) |
| Contact resistance | ≤2mΩ | (2, 3, 4 & 5 way) |
| Contact resistance | ≤2mΩ | (7 & 8 way) |
| Insulation resistance | 10 ¹⁴ Ω | |
| Capacitance between adjacent contacts | | 1.5pF |
| Temperature range | -40°C to +85°C | |
| Housing | Brass nickel plated | |
| Dielectric | PETP | |
| Contact (socket) | Copper / Zinc Alloy, Gold over Nickel plating | |
| Contact (pins) | Copper / Zinc Alloy, Gold over Nickel plating | |
| Max. wire size | 0.25mm ² (2, 3, 4 & 5 way) | |
| Max. wire size | 0.14mm ² (7 & 8 way) | |
| Max. cable diameter | 5mm | |

Note: IP67 protection only when mated

208999

No of Mfrs. Ways	List No.	Order Code	1+	20+	50+	100+	500+
Free Plug - Solder bucket contacts							
2	99 0401 00 02	112-2549●	4.44	4.13	3.97	3.73	3.49
2	99 0401 00 02	112-2549●	4.44	4.13	3.97	3.73	3.49
3	99 0405 00 03	112-2550●	4.75	4.43	4.22	4.00	3.73
4	99 0409 00 04	112-2552●	5.29	5.18	5.08	4.93	4.82
5	99 0413 00 05	112-2553●	5.53	5.15	4.93	4.65	4.35
2	99 0401 00 02	112-2549●	4.44	4.13	3.97	3.73	3.49
7	99 0421 00 07	112-2554●	6.84	6.38	6.11	5.76	5.39
8	99 0425 00 08	112-2555●	8.05	7.88	7.73	7.49	7.34
Free Plug - Right Angle - Solder bucket contacts							
3	99 0405 70 03	112-2829●	6.80	6.33	6.06	5.72	5.35
4	99 0409 70 04	112-2830●	7.46	7.32	7.16	6.94	6.79
5	99 0413 70 05	112-2831●	7.51	6.99	6.70	6.30	5.89
8	99 0425 70 08	112-2833●	11.26	11.03	10.79	10.48	10.28
Free Socket - Solder bucket contacts							
2	99 0402 00 02	112-2556●	4.85	4.52	4.32	4.09	3.82
3	99 0406 00 03	112-2557●	5.17	4.83	4.62	4.37	4.09
4	99 0410 00 04	112-2558●	5.80	5.69	5.57	5.40	5.30
5	99 0414 00 05	112-2559●	6.01	5.61	5.38	5.06	4.74
7	99 0422 00 07	112-2560●	7.23	6.75	6.45	6.09	5.70
8	99 0426 00 08	112-2561●	8.89	8.72	8.54	8.28	8.12
Panel plug - Solder bucket contacts							
2	09 0403 00 02	112-2562●	3.37	3.14	3.02	2.85	2.67
3	09 0407 00 03	112-2564●	3.64	3.40	3.26	3.07	2.88
4	09 0411 00 04	112-2565●	4.06	3.97	3.89	3.78	3.71
5	09 0415 00 05	112-2566●	4.45	4.16	3.98	3.75	3.51
7	09 0423 00 07	112-2567●	5.88	5.49	5.25	4.94	4.62
8	09 0427 00 08	112-2568●	6.89	6.75	6.63	6.42	6.28
Free Socket - Right Angle - Solder bucket contacts							
2	99 0402 70 02	112-2834●	8.48	8.31	8.13	7.89	7.74
3	99 0406 70 03	112-2835●	6.25	6.13	6.00	5.83	5.70
5	99 0414 70 05	112-2838●	7.22	7.08	6.94	6.72	6.59
Panel Socket - Solder bucket contacts							
2	09 0404 80 02	112-2569●	3.77	3.53	3.39	3.19	3.00
3	09 0408 80 03	112-2570●	4.23	3.95	3.79	3.58	3.36
4	09 0412 80 04	112-2571●	4.99	4.90	4.78	4.65	4.56
5	09 0416 80 05	112-2572●	4.97	4.65	4.45	4.20	3.94
7	09 0424 80 07	112-2573●	6.17	5.74	5.50	5.19	4.85
8	09 0428 80 08	112-2574●	10.26	9.54	8.14	6.88	6.59
Panel Socket - Dip soldering contacts							
2	09 0404 90 02	112-2576●	3.99	3.92	3.83	3.72	3.63
5	09 0416 90 05	112-2579●	6.70	6.58	6.44	6.24	6.12
7	09 0424 90 07	112-2580●	8.17	7.99	7.85	7.61	7.45
Protective Cap							
Panel Plug							
	08-0351-00-01	112-2839●	2.25	2.09	2.00	1.89	1.81
Panel Socket							
	08-0352-00-01	112-2840●	1.99	1.87	1.78	1.69	1.61

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Miniature Circular Series 423/723

EMC Shielding 360°



- Lightweight metal connectors, series 423
- Panel plug front mounting, series 723
- Integral cable clamp (Ø4-6mm)
- EMC shielding 360°
- Solder buckets
- Sealing to IP67, when mated

Current rating	5A (2-8 ways), 3A (12 ways)
Voltage rating	250V ac (VDE standard 0110)
Housing	Brass, nickel finish
Crimp contacts	Phosphor bronze, tin plated
Temperature range	-40°C to +85°C

Contact resistance	≤3mΩ
Insulation resistance	<10 ¹³ Ω
Insulator	PETP gv
Contact socket	CuSn, 4μm Ag
Contact pin	CuZn, 4μm Ag

227269

No. of ways	Mfrs. List No.	Order Code	1+	50+	100+	500+
Free Plug - Series 423						
2	99 5101 15 02	112-2419●	7.51	5.89	5.11	4.76
3	99 5105 15 03	112-2420●	7.65	6.00	5.21	4.88
4	99 5109 15 04	112-2421●	7.76	6.08	5.26	4.94
5	99 5113 15 05	112-2422●	7.96	6.24	5.42	5.08
8	99 5171 15 08	112-2424●	8.83	6.93	6.02	5.63
12	99 5129 15 12	112-2426●	10.12	7.93	6.87	6.44
Free Socket - Series 423						
2	99 5102 15 02	112-2427●	7.80	6.12	5.30	4.97
3	99 5106 15 03	112-2428●	7.92	6.21	5.21	4.88
4	99 5110 15 04	112-2429●	8.03	6.28	5.46	5.11
5	99 5114 15 05	112-2430●	8.25	6.49	5.61	5.26
8	99 5172 15 08	112-2431●	9.11	7.13	6.18	5.80
12	99 5130 15 12	112-2432●	10.48	8.22	7.12	6.68
Cap	08 1078 000 000	112-2433●	2.14	1.88	1.67	1.50
Male Receptacle- Front Mount 723						
2	09 0103 00 02	112-2434●	4.04	3.61	3.25	3.02
3	09 0107 00 03	112-2436●	4.04	3.59	3.24	3.00
4	09 0111 00 04	112-2437●	4.24	3.80	3.43	3.18
8	09 0173 00 08	112-2438●	5.20	4.78	4.30	3.98
12	09 0131 00 12	112-2439●	8.10	7.24	6.52	6.04
Cap	08 1079 000 000	112-2440●	2.12	1.85	1.64	1.48
Female Receptacle- Front Mount 723						
2	09 0104 00 02	112-2441●	4.23	3.80	3.43	3.18
3	09 0108 00 03	112-2442●	4.40	3.96	3.57	3.31
4	09 0112 00 04	112-2443●	4.68	4.09	3.69	3.42
5	09 0116 00 05	112-2444●	4.60	3.60	3.14	2.93
8	09 0174 00 08	112-2445●	5.88	5.27	4.74	4.39
12	09 0132 00 12	112-2446●	8.98	8.02	7.22	6.69
Cap	08 1080 000 000	112-2448●	1.86	1.63	1.44	1.30

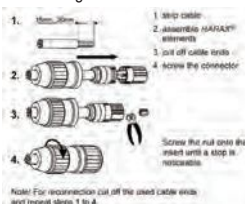
HARAX® Circular Connector

Free Plugs and Sockets



The HARAX rapid termination system uses axial insulation displacement technology to reduce installation time by up to 50%. Installation simply involves removing the outer insulation of the cable, attaching the HARAX connector assembly, and tightening a screw cap. Not only is connection performed automatically, but the finished joint offers full strain relief as well as sealing to IP67.

Pushing Performance



- HARAX® rapid termination system
- Designed for use in industrial sensor systems to M12 and M8 standards
- Pre-leading contact option available with 3 pole M12-L version

	M8-S	M12-S	M12-L
Voltage rating	32V	32V	32V
Current rating	4A	4A	4A
Conductor cross section	0.14mm ² - 0.34mm ²	0.14mm ² - 0.34mm ²	0.34mm ² - 0.75mm ²
Conductor cross section AWG	26 - 22	26 - 22	22 - 18
Conductor diameter	1.0mm - 1.6mm	1.0mm - 1.6mm	1.6mm - 2.0mm
Cable Diameter	3.2mm - 5.4mm	4.0mm - 5.1mm	5.5mm - 8.00mm
Operating temperature	-5 to +50°C	-5 to +50°C	-5 to +50°C

430208

No. of Ways	Mfrs. List No.	Order Code	1+	10+	25+	50+
Plug - M8-S						
3	21021511305	114-6405●	6.78	6.09	5.54	5.26
4	21021511405	114-6406●	6.82	6.13	5.58	5.28
Socket - M8-S						
3	21021512305	114-6407●	7.59	6.82	6.21	5.90
4	21021512405	114-6408●	7.62	6.86	6.23	5.94
Plug - M12-S						
4	21031111405	114-6402●	6.73	6.06	5.51	5.22

No. of Ways	Mfrs. List No.	Order Code	1+	10+	25+	50+
Socket - M12-S						
4	21031112405	114-6404●	7.52	6.78	6.16	5.85
Plug - M12-L						
4	21032121305	114-6395●	9.28	8.33	7.57	7.18
Plug - M12-L with Pre-Lead Contact						
3	21032121306	114-6398●	6.43	5.78	5.25	4.99
Socket - M12-L						
4	21032122305	114-6399●	6.81	6.48	6.20	5.94
Socket - M12-L with Pre-Lead Contact						
3	21032122306	114-6401●	6.99	6.28	5.70	5.42

Harax M12-RJ45 Adaptor



- IP 67 M12 D-Coded Outside Mating Face
- IP 20 RJ45 Inside Jack
- Integration of Two Different Interfaces in One Connector
- Ideal Solution for the Link from the Switch Cabinet into the Installation Field
- Easy Handling Due to Simplification of Wiring

450160

Mfrs. List No.	Order Code	1+	5+	10+
21033814400	124-3963●	22.11	20.86	18.25

C091D Series Metal Circular



- Precision construction metal circular connectors
- Screw locking
- Internal metal strain relief
- Silver and gold plated contacts
- Complete EMI shielding when fully mated and locked
- Sealed to IP67
- UL Recognised

Voltage rating	250V ac (3 to 6 way) 60V ac (7 to 12 way)	Insulation resistance	10 ¹² Ω
Current rating	5A (3 to 8 way) 3A (12 way)	Mating cycles	>500
Contact plating	Silver (C091 31XXXX 1002) Gold (C091 31XXXX 2002)	Operating temperature	-40°C to 85°C
Contact resistance	<5mΩ	Protection	IP67
		Wire conductor size (max)	0.5mm ² (20 AWG), 3 to 8 way 0.25mm ² (24 AWG), 12 way

231148

No. of Ways	Mfrs. List No.	Order Code	1+	25+	50+	100+
Free Plug						
3	C091 31H003 1002	112-3524●	11.09	10.21	9.75	9.32
4	C091 31H004 1002	112-3525●	12.09	11.13	10.65	10.19
5	C091 31H005 1002	118-0961●	11.89	10.95	10.47	10.02
6	C091 31H006 1002	112-3526●	13.09	12.05	11.54	10.96
7	C091 31H007 1002	112-3527●	13.28	12.23	11.70	11.06
8	C091 31H008 1002	112-3528●	14.03	12.79	11.89	11.22
12	C091 31H012 100 2FA	128-1714●	12.83	11.85	11.16	11.08
12	C091 31H012 2002	112-3529●	18.26	16.67	15.49	14.62
Free Socket						
3	C091 31D003 1002	112-3530●	11.09	10.11	9.43	8.85
4	C091 31D004 1002	112-3532●	10.91	9.95	9.25	8.71
5	C091 31D005 1002	112-3534●	11.82	10.79	10.06	9.49
6	C091 31D006 1002	112-3535●	12.17	11.11	10.32	9.75
7	C091 31D007 1002	112-3537●	12.73	11.61	10.81	10.19
8	C091 31D008 1002	112-3538●	13.54	12.32	11.50	10.80
12	C091 31D012 100 2FA	128-1715●	11.94	11.05	10.39	10.29
12	C091 31D012 2002	112-3539●	14.74	13.44	12.54	11.79
R/A Free Socket						
3	C091 31F003 100 2FA	128-1716●	10.51	9.76	9.38	8.81
4	C091 31F004 100 2FA	128-1718●	10.59	9.86	9.45	8.85
5	C091 31F005 100 2FA	128-1721●	14.20	13.24	12.64	11.86
6	C091 31F006 100 2FA	128-1722●	10.71	9.98	9.54	8.99
7	C091 31F007 100 2FA	128-1723●	10.76	10.02	9.56	9.03
8	C091 31F008 100 2FA	128-1724●	11.78	10.96	10.48	9.88
12	C091 31F012 100 2FA	128-1725●	13.55	12.60	12.05	11.37
Panel Plug						
3	C091 31W003 1002	112-3540●	4.85	4.46	4.25	4.08
4	C091 31W004 1002	112-3541●	5.04	4.64	4.45	4.24
5	C091 31W005 1002	112-3542●	5.26	4.87	4.65	4.45
6	C091 31W006 1002	112-3544●	3.79	3.49	3.34	3.19
7	C091 31W007 1002	112-3545●	3.86	3.57	3.41	3.25
8	C091 31W008 1002	112-3546●	5.18	4.77	4.57	4.39
12	C091 31W012 2002	112-3547●	10.84	9.90	9.22	8.67
Panel Socket						
3	C091 31N003 1002	112-3548●	4.89	4.45	4.14	3.90
4	C091 31N004 1002	112-3549●	5.18	4.70	4.43	4.16
5	C091 31N005 1002	112-3552●	5.29	4.86	4.50	4.24
6	C091 31N006 1002	112-3553●	6.07	4.97	4.60	4.37



Sealed - continued

C091D Series Metal Circular - continued

No. of Ways	Mfrs. List No.	Order Code	1+	25+	50+	100+
Panel Socket						
7	C091 31N007 1002	112-3556●	4.75	4.34	4.02	3.79
8	C091 31N008 1002	112-3557●	7.34	6.72	6.25	5.89
12	C091 31N012 2002	112-3558●	11.18	10.20	9.51	8.95
Protective Cap						
Free Plug	C091-00U000-120-2	850-0380●	4.30	4.02	3.85	3.69
Free Socket	C091-00V000-120-2	850-0398●	3.89	3.65	3.47	3.35
Spanner Wrench						
Panel Mount		379-1518	7.70	6.87	6.62	6.42
Cable Mount		379-1520	9.73	9.21	8.70	8.43

C091D Series Metal Circular
Crimp Contacts (Ordered Separately)

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+
Free Plug						
3	C091 11H003 000 2	128-1726●	8.76	8.23	7.90	7.59
5	C091 11H005 000 2	128-1728●	9.16	8.60	8.25	7.94
7	C091 11H007 000 2	128-1730●	9.16	8.60	8.25	7.94
Free Socket						
6	C091 11D006 000 2	128-1737●	9.28	8.70	8.35	8.03
Panel Socket						
3	C091 11N003 000 2	128-1746●	4.23	3.97	3.81	3.65
5	C091 11N005 000 2	128-1748●	4.23	3.97	3.81	3.65
7	C091 11N007 000 2	128-1750●	4.23	3.97	3.81	3.65
Protective Cap						
Free Plug	C091-00U000-120-2	850-0380●	4.30	4.02	3.85	3.69
Free Socket	C091-00V000-120-2	850-0398●	3.89	3.65	3.47	3.35

Amphenol

Crimp Contacts	Wire Size	Order Code	Price Per Pack of 100
			1+ 10+
Pins	0.14 - 0.5mm ²	112-3497●	3.53 3.38
Pins	0.75 - 1mm ²	128-1757●	10.68 9.69
Sockets	0.14 - 0.5mm ²	991-2525●	3.42 3.28
Sockets	0.75 - 1mm ²	128-1758●	14.06 12.64
			Price Each
			1+ +
Crimp tool		128-1751	96.66
Die	0.14 - 0.5mm ²	128-1752	98.86
Die	0.75 - 1mm ²	128-1753	230.67
Locator for contact	0.14 - 0.5mm ²	128-1754●	15.38

449827

Econseal E

Tyco Electronics



- Suitable for use in hazardous environmental conditions
- IP64 according to DIN40050
- Available in 2 and 3 position version
- Truncated cone at the wire side of the housing aids the fitting of heatshrink or rubber boot

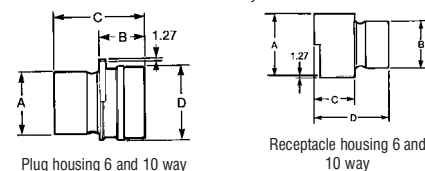
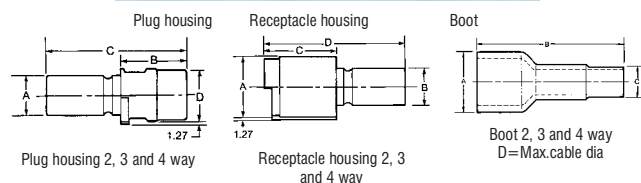
Housings PA 6.6 GF13
Contacts Brass, Pre-Tin plated

209277

No. of ways	Insulation Dia.	Mfrs. List No.	Order Code	1+	Price Each 50+	100+
Plugs						
2	1.3-3.0mm	826883-2	359-488●	0.700	0.630	0.600
3	2.3-3.0mm	826885-2	359-518●†	1.520	1.330	1.300
3	1.3-2.3mm	826885-8	359-543●	1.030	0.930	0.910
Sockets						
2	2.3-3.0mm	826884-3	359-490●†	1.320	1.150	1.130
3	2.3-3.0mm	826886-4	359-579●†	1.270	1.150	1.110
3	1.3-2.3mm	826886-7	359-592●	1.100	1.000	0.970
Contacts						
				10+	500+	1K+
Pins						
0.5-1mm ² wire		926981-2	359-622●	0.145	0.128	0.114
1-2.5mm ² wire		926983-2	359-634●	0.155	0.139	0.124
Sockets						
0.5-1mm ² wire		827396-2	359-683●	0.143	0.128	0.114
1-2mm ² wire		827397-2	359-774●	0.143	0.128	0.087
				1+		
Hand crimp Tool					93.170	
Extraction Tool					30.570	

'Sure-Seal' Crimp 15A - IP66

ITT
Engineered for life



A low cost range of sealed connectors meeting the requirements of IP66A DIN40050. The housings are resistant to most industrial fuel oils, ultra violet and ozone, and feature a double stepped mating face to ensure correct polarisation. UL and CSA recognised.

Contact rating	15A @ 250V ac 65°C 8A @ 250V ac 90°C	Housing Contacts Temperature range Sealing Capacity	Perbunan or Nitril Butadiene Copper Alloy, Tin plated -40°C to +105°C 3' depth immersion in 5% salt solution for short periods
Contact resistance	<10mΩ		
Dielectric withstand voltage	1200V ac		

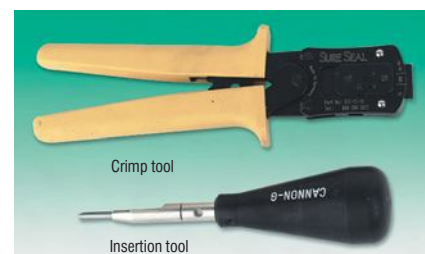
No. of Ways	Max current per Contact (A)	A	B	C	D	Mfrs. List No.	Order Code
Plug Housings							
2	13.5	10.92	17.53	35.81	13.97	1201807000	118-8178
3	12	12.70	17.53	35.81	15.24	1201808000	118-8179
4	10.5	12.70	17.53	35.81	15.24	1201809000	118-8180
Receptacle Housings							
2	13.5	18.03	10.92	21.21	39.37	1201804000	118-8183
3	12	19.30	12.72	21.21	39.37	1201805000	118-8184
4	10.5	19.30	12.72	21.21	39.37	1201806000	118-8186
Boots							
2		16.51	52.07	9.65	5.79	3171398000	118-8189
3/4		15.49	52.07	9.65	6.10	3171397000	118-8190

219765

No. of Ways	Order Code	1+	10+	Price Each 50+	100+	250+
Plug Housing						
2	118-8178●	1.74	1.63	1.54	1.41	1.34
3	118-8179●	1.90	1.74	1.63	1.51	1.44
4	118-8180●	2.06	1.90	1.82	1.63	1.55
Receptacle Housing						
2	118-8183●	1.92	1.75	1.63	1.51	1.44
3	118-8184●	1.92	1.78	1.67	1.51	1.45
4	118-8186●	2.25	2.00	1.89	1.75	1.62
Boots						
2	118-8189●	4.75	4.43	4.23	3.83	3.30
3/4	118-8190●	4.79	4.45	4.26	3.83	3.30

Contacts and Tooling for 'Sure Seal'

ITT
Engineered for life



	Mfrs. List No.	Order Code
Pin contact -0.75-1.5mm ²	3308672000	118-8174
Socket contact -0.75-1.5mm ²	0318703000	121-3025/604
Crimp Tool	CCTSS2	146-350
Insertion tool - insulation dia=1.8-2.8mm	CITG-SS-1	151-654

209348

Crimp Contacts	Order Code	1+	Price Each 10+
Pins (Pack of 10)	118-8174●	1.81	1.59
Sockets (Pack of 10)	121-3025●	4.07	3.57
Crimp tool	146-350	176.00	--
Insertion tool	151-654	101.00	--



40,000 PRICES REDUCED

'Sure-Seal' European Version



- Manufactured in Germany
- Polarised mating

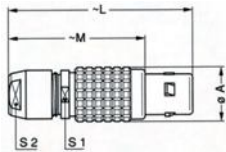
- One piece moulded body
- Mated connectors are **IP67 rated**

209282

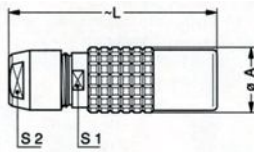
No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+	250+
Plug Housing							
2	120-8552-000	118-8191 ●	1.350	1.230	1.180	1.110	1.050
3	120-8552-001	118-8192 ●	1.470	1.360	1.310	1.250	1.200
4	120-8552-002	118-8193 ●	1.590	1.480	1.410	1.340	1.280
7	120-8552-007	118-8194 ●	2.220	2.020	1.900	1.820	1.720
Receptacle Housing							
2	120-8551-000	118-8195 ●	1.430	1.340	1.280	1.220	1.170
3	120-8551-001	118-8196 ●	1.430	1.320	1.270	1.220	1.170
4	120-8551-002	118-8198 ●	1.740	1.620	1.550	1.490	1.420
7	120-8551-007	118-8200 ●	2.190	1.990	1.870	1.790	1.690
Boots							
2	3171398000	118-8189 ●	4.750	4.430	4.230	3.830	3.300
3/4 small	3171397000	118-8190 ●	4.790	4.450	4.260	3.830	3.300
3/4 large	3171399000	118-8201 ●	4.820	4.320	4.110	3.880	3.710
Order Multiple=10			10+	100+	500+	1K+	
Pin for							
16-20AWG	330-8672-001	118-8202 ●	0.210	0.199	0.189	0.180	
Socket for							
16-20AWG	031-8703-001	118-8204 ●	0.390	0.360	0.350	0.330	
Tooling					Price Each		
Insertion Tool	CITG-SS-1	151-654			101.000		

Push/Pull Connectors

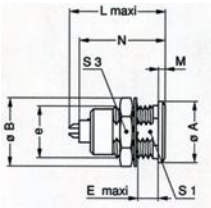
Lemo 00 Series



Straight Cable Plug L=28.5mm M=20.5mm
A=6.4mm S1=5.5mm S2=5.0mm



Straight Cable Socket L=27.0mm A=6.4mm
S1=5.5mm S2=5.0mm



Panel Socket A=8.0mm B=10.3mm e=M7x0.5 E=5.5mm
L=15.5mm M=1.0mm N=13.7mm S1=6.3mm S3=9.0mm

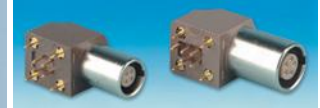
The Lemo 00 Series are miniature, solder terminated multipole connectors. Cable plugs (FGG) mate with cable sockets (PHG) and panel sockets (EGG). Colour coded strain relief boots are available separately.

Current Rating	2 Way 5A	3 Way 3A	4 Way 2A
Test Voltage (contact to contact)	1.0 kV rms	0.8 kV rms	0.8 kV rms
Operating Voltage	350V	260V	260V
Contact Resistance (1000 cycles)	7.5mΩ	7.5mΩ	7.5mΩ
Dielectric Strength	19kV/mm	19kV/mm	19kV/mm
Mating Cycles	5000		
Body Mat	Brass UNS C 38500		
Body Plating	Chrome		
Pin Contact Mat	Brass		
Socket Contact Mat	Bronze		
Contact Plating	Gold		
Termination		Solder	
Contact Dia		0.5	
Max Wire Size Solid		28 AWG, 0.09mm ²	
Max Wire Size Stranded		30 AWG, 0.05mm ²	
Insulation Mat		PEEK	
Temperature Range		-55°C to +250°C	

232083

No. Ways	Order Code	1+	5+	Price Each	10+	50+	100+
00 Straight Cable Plug							
2	381-7192 ●	9.76	8.99	8.60	8.11	7.53	
3	381-7209 ●	11.63	10.92	10.28	9.38	8.91	
4	381-7210 ●	12.08	11.25	10.77	10.15	9.50	
00 Straight Cable Sockets							
2	381-7600 ●	10.53	9.81	9.39	8.86	8.29	
3	381-7611 ●	12.65	12.12	11.38	10.74	9.82	
4	381-7623 ●	13.60	12.64	12.12	11.43	10.69	
00 Panel Sockets							
2	381-7040 ●	7.04	6.57	6.27	5.93	5.55	
3	381-7052 ●	9.34	8.74	8.22	7.47	7.07	
4	381-7064 ●	10.73	9.99	9.56	9.02	8.44	

Lemo 0B Series



Type EPG

- 9.5mm diameter body
- Dense multi-contact configurations saves panel space
- Push-pull self-latching system offers ease-of use, while preventing damage to contacts
- Multiple keyways prevent accidental cross mating

Electrical Specification

	2 Way	3 Way	4 Way	5 Way	6 Way	7 Way
Current Rating	10A	8A	7A	6.5A	2.5A	2.5A
Test Voltage, Contact-Contact (rms)	1.30KV	1.20KV	0.85KV	1.00KV	0.85KV	0.80KV
Test Voltage, Contact-Shell (rms)	1.05KV	0.90KV	0.70KV	0.70KV	0.65KV	0.70KV
Contact Resistance	4.1mΩ	4.1mΩ	5.6mΩ	5.6mΩ	7.5mΩ	7.5mΩ
Max Wire Size	22 AWG	22 AWG	22 AWG	22 AWG	28 AWG	28 AWG

0B R/A PCB Mount Panel Sockets - type EPG only

	2 Way	3 Way	4 Way	5 Way	6 Way	7 Way
Current Rating	4.5A	4.5A	4.5A	4.5A	2.5A	2.0A
Test Voltage, Contact-Contact (rms)	1.45KV	1.70KV	1.30KV	1.25KV	1.25KV	1.25KV
Test Voltage, Contact-Shell (rms)	1.20KV	1.60KV	1.10KV	1.20KV	1.20KV	1.20KV

Mechanical Specification

Mating Cycles	5000	Pin Contact	
Materials:		Socket Contact	
Body	Brass, Nickel Plated	Insulation	
Temperature Range			-55°C to +250°C

Mfrs. List Nos.

FGG.0B.302.CLAD52Z=381-7222	PHG.0B.307.CLLD52Z=381-7684	ECG.0B.305.CLV=926-7026
FGG.0B.303.CLAD52Z=381-7234	EGG.0B.302.CLL=381-7076	EPG.0B.302.HLN=431-5250
FGG.0B.304.CLAD52Z=381-7246	EGG.0B.303.CLL=381-7088	EPG.0B.303.HLN=431-5261
FGG.0B.305.CLAD52Z=381-7258	EGG.0B.304.CLL=381-7090	EPG.0B.304.HLN=431-5273
FGG.0B.306.CLAD52Z=381-7260	EGG.0B.305.CLL=381-7106	EPG.0B.305.HLN=431-5285
FGG.0B.307.CLAD52Z=381-7271	EGG.0B.306.CLL=381-7118	EPG.0B.306.HLN=431-5297
PHG.0B.302.CLLD52Z=381-7635	EGG.0B.307.CLL=381-7120	EPG.0B.307.HLN=431-5303
PHG.0B.303.CLLD52Z=381-7647	ECG.0B.302.CLV=926-6992	FGG.0B.731.DN=381-7283
PHG.0B.305.CLLD52Z=381-7660	ECG.0B.303.CLV=926-7000	FGG.0B.742.DN=381-7295
PHG.0B.306.CLLD52Z=381-7672	ECG.0B.304.CLV=926-7018	

381817/406552

No. of Ways	Order Code	1+	5+	Price Each	10+	50+	100+
0B Straight Cable Plugs (collet 4.1-5.0mm)							
2	381-7222 ●	10.99	10.23	9.79	9.23	8.63	
3	381-7234 ●	11.59	10.80	10.32	9.76	9.13	
4	381-7246 ●	12.29	11.43	10.96	10.33	9.67	
5	381-7258 ●	12.69	11.82	11.31	10.68	9.99	
6	381-7260 ●	13.53	12.59	12.06	11.38	10.65	
7	381-7271 ●	14.39	13.39	12.82	12.10	11.32	
0B Straight Cable Sockets (collet 4.1-5.0mm)							
2	381-7635 ●	10.13	9.44	9.03	8.51	7.96	
3	381-7647 ●	10.48	9.77	9.34	8.81	8.13	
4	381-7659 ●	11.40	10.62	10.16	9.59	8.97	
5	381-7660 ●	12.20	11.36	10.87	10.25	9.59	
6	381-7672 ●	12.23	11.39	10.90	10.28	9.62	
7	381-7684 ●	12.75	11.85	11.36	10.72	10.03	
0B Panel Sockets							
2	381-7076 ●	8.29	7.72	7.37	6.97	6.51	
3	381-7088 ●	8.96	8.33	7.97	7.54	7.05	
4	381-7090 ●	9.45	8.81	8.42	7.96	7.45	
5	381-7106 ●	9.99	9.29	8.90	8.40	7.86	
6	381-7118 ●	10.43	9.72	9.30	8.78	8.22	
7	381-7120 ●	10.87	10.12	9.67	9.14	8.54	
0B PCB 90° Panel Sockets							
2	926-6992 ●	11.12	10.11	9.55	8.92	8.40	
3	926-7000 ●	11.26	10.23	9.68	9.03	8.49	
4	926-7018 ●	12.17	11.03	10.46	9.76	9.15	
5	926-7026 ●	13.63	12.36	11.73	10.95	10.28	
0B RA PCB Mount Panel Sockets - Type EPG							
2	431-5250 ●	12.68	11.80	11.30	10.66	9.97	
3	431-5261 ●	14.51	13.49	12.92	12.19	11.40	
4	431-5273 ●	16.26	15.14	14.49	13.67	12.79	
5	431-5285 ●	17.25	16.05	15.35	14.50	13.55	
6	431-5297 ●	22.53	21.74	20.99	20.29	19.66	
7	431-5303 ●	24.63	23.78	22.99	22.23	21.54	
0B Collets							
Size(mm)							
2.6-3.0	381-7283 ●	1.07	1.00	0.97	0.92	0.87	
3.1-4.0	381-7295 ●	1.08	1.01	0.97	0.92	0.87	



Push/Pull Connectors - continued

Lemo 0K Series



- 9.5mm diameter body
- Environmentally sealed versions of 0B series
- Electrical and mechanical specification identical to 0B series
- IP66 rating when mated (IP68 with potting of rear termination)

Temperature Range- IP66 connectors -50°C to +200°C

Temperature Range- IP 68 connectors -20°C to +80°C

Mfrs. List Nos.

FGG.0K.302.CLAC45Z=838-7036 FGG.0K.305.CLAC45Z=838-7060 EGG.0K.304.CLL=838-7460
FGG.0K.303.CLAC45Z=838-7044 EGG.0K.302.CLL=838-7435 EGG.0K.305.CLL=838-7478
FGG.0K.304.CLAC45Z=838-7052 EGG.0K.303.CLL=838-7443

381818/406553

No. of Ways	Order Code	1+	5+	Price Each	10+	50+	100+
0K Straight Cable Plugs- IP66 (collet 4.1-4.5 mm)							
2	838-7036	15.22	14.59	13.72	12.46	11.81	
3	838-7044	15.75	15.07	14.18	12.89	12.22	
4	838-7052	16.42	15.72	14.78	13.44	12.74	
5	838-7060	17.05	16.33	15.36	13.95	13.22	
0K Panel Sockets- IP66							
2	838-7435	12.37	11.85	11.14	10.15	9.61	
3	838-7443	12.82	12.27	11.54	10.50	9.97	
4	838-7460	13.28	12.73	11.96	10.88	10.32	
5	838-7478	13.80	13.20	12.41	11.28	10.70	

1B Series



Type EPG

- 12mm diameter body
- Larger load capacity than 0B series connectors
- Push-pull self-latching system offers ease-of use, while preventing damage to contacts
- Multiple keyways prevent accidental cross mating

Electrical Specification

	3 Way	4 Way	5 Way	6 Way	7 Way	8 Way	10 Way
Current Rating	12A	10A	10A	7A	5A	5A	2.5A
Test Voltage, Contact-Contact (rms)	1.30KV	1.35KV	1.25KV	1.05KV	0.95KV	0.95KV	0.90KV
Test Voltage, Contact-Shell (rms)	1.55KV	1.45KV	1.15KV	1.20KV	1.05KV	1.15KV	1.50KV
Contact Resistance	2.8mΩ	4.1mΩ	4.1mΩ	5.6mΩ	5.6mΩ	5.6mΩ	7.5mΩ
Max Wire Size	20 AWG	22 AWG	22 AWG	22 AWG	22 AWG	22 AWG	28 AWG

0B R/A PCB Mount Panel Sockets - type EPG only

	2 Way	3 Way	4 Way	5 Way	6 Way	7 Way	7 Way
Current Rating	4.5A	4.5A	4.5A	4.5A	2.0A	2.0A	1.5A
Test Voltage, Contact-Contact (rms)	1.60KV	1.70KV	1.30KV	1.35KV	1.45KV	1.30KV	1.00KV
Test Voltage, Contact-Shell (rms)	1.85KV	1.80KV	1.55KV	1.45KV	1.45KV	1.30KV	1.00KV

Mechanical Specification

Mating Cycles	5000	Pin Contact	Brass, Gold Plated
Materials:		Socket Contact	Bronze, Gold Plated
Body	Brass, Nickel Plated	Insulation	PEEK
Temperature Range	-55°C to +250°C		

Mfrs. List No.

FGG.1B.303.CLAD62Z=381-7301 PHG.1B.307.CLLD62Z=381-7726 ECG.1B.304.CLV=926-7042
FGG.1B.304.CLAD62Z=381-7313 PHG.1B.308.CLLD62Z=381-7738 ECG.1B.306.CLV=926-7050
FGG.1B.305.CLAD62Z=431-5212 PHG.1B.310.CLLD62Z=381-7740 EPG.1B.303.HLN=431-5315
FGG.1B.306.CLAD62Z=381-7325 EGG.1B.303.CLL=381-7131 EPG.1B.304.HLN=431-5327
FGG.1B.307.CLAD62Z=381-7337 EGG.1B.304.CLL=381-7143 EPG.1B.306.HLN=431-5340
FGG.1B.308.CLAD62Z=381-7349 EGG.1B.305.CLL=431-5236 EPG.1B.307.HLN=431-5352
FGG.1B.310.CLAD62Z=381-7350 EGG.1B.306.CLL=381-7155 EPG.1B.308.HLN=431-5364
PHG.1B.303.CLLD62Z=381-7696 EGG.1B.307.CLL=381-7167 EPG.1B.310.HLN=431-5376
PHG.1B.304.CLLD62Z=381-7702 EGG.1B.308.CLL=381-7179 FGG.1B.742.DN=381-7362
PHG.1B.305.CLLD62Z=431-5224 EGG.1B.310.CLL=381-7180 FGG.1B.752.DN=381-7374
PHG.1B.306.CLLD62Z=381-7714 ECG.1B.303.CLV=926-7034

381819/406555

No. of Ways	Order Code	1+	5+	Price Each	10+	50+	100+
1B Straight Cable Plugs (collet 5.1-6.0mm)							
3	381-7301	15.67	14.59	13.96	13.17	12.32	
4	381-7313	15.77	14.68	14.05	13.26	12.40	
5	431-5212	18.47	17.84	17.22	16.66	16.14	
6	381-7325	17.77	16.53	15.82	14.94	13.97	
7	381-7337	18.48	17.19	16.45	15.52	14.51	
8	381-7349	19.18	17.84	17.08	16.12	15.07	
10	381-7350	20.19	18.78	17.96	16.96	15.85	

No. of Ways	Order Code	1+	5+	Price Each	10+	50+	100+
1B Straight Cable Sockets (collet 5.1-6.0mm)							
3	381-7696	14.29	13.30	12.73	12.01	11.23	
4	381-7702	14.84	13.81	13.21	12.48	11.67	
5	431-5224	17.86	17.23	16.65	16.09	15.59	
6	381-7714	16.60	15.45	14.79	13.95	13.05	
7	381-7726	17.45	16.23	15.53	14.67	13.71	
8	381-7738	17.70	16.46	15.75	14.89	13.92	
10	381-7740	19.01	17.69	16.93	15.98	14.94	
1B Panel Sockets							
3	381-7131	11.95	11.13	10.64	10.04	9.39	
4	381-7143	12.95	12.05	11.54	10.89	10.19	
5	431-5236	14.86	14.36	13.85	13.40	12.97	
6	381-7155	14.50	13.48	12.92	12.19	11.40	
7	381-7167	15.11	14.06	13.45	12.71	11.88	
8	381-7179	15.61	14.52	13.90	13.12	12.27	
10	381-7180	18.69	17.38	16.63	15.70	14.67	
1B PCB 90° Panel Sockets							
3	926-7034	15.60	14.17	13.42	12.54	11.77	
4	926-7042	17.16	15.56	14.75	13.79	12.93	
6	926-7050	18.87	17.12	16.21	15.16	14.24	
1B RA PCB Mount Panel Sockets - Type EPG							
3	431-5315	21.58	20.81	20.09	19.44	18.83	
4	431-5327	20.02	18.62	17.83	16.83	15.74	
6	431-5340	23.65	22.00	21.05	19.87	18.57	
7	431-5352	24.34	22.65	21.68	20.46	19.13	
8	431-5364	30.19	29.14	28.12	27.23	26.36	
10	431-5376	32.14	31.01	29.94	28.96	28.05	
1B Collets							
Size(mm)							
3.1-4.0	381-7362	1.59	1.49	1.42	1.35	1.27	
4.1-5.0	381-7374	1.59	1.49	1.42	1.35	1.27	

Lemo 1K Series



- 12mm diameter body
- Environmentally sealed versions of 1B series
- Electrical and mechanical specification identical to 1B series
- IP66 rating when mated (IP68 with potting of rear termination)

Temperature Range- IP66 connectors -50°C to +200°C

Temperature Range- IP 68 connectors -20°C to +80°C

Mfrs. List No.

FGG.1K.303.CLAC55Z=838-7222 HGG.1K.304.CLLP=838-7338
FGG.1K.304.CLAC55Z=838-7230 HGG.1K.306.CLLP=838-7354
FGG.1K.305.CLAC55Z=838-7249 HGG.1K.307.CLLP=838-7362
FGG.1K.306.CLAC55Z=838-7257 EGG.1K.303.CLL=838-7486
FGG.1K.307.CLAC55Z=838-7265 EGG.1K.304.CLL=838-7508
PHG.1K.303.CLLC55Z=838-7273 EGG.1K.305.CLL=838-7516
PHG.1K.304.CLLC55Z=838-7281 EGG.1K.306.CLL=838-7524
PHG.1K.306.CLLC55Z=838-7303 EGG.1K.307.CLL=838-7532

381820/406556

No. of Ways	Order Code	1+	5+	Price Each	10+	50+	100+
1K Straight Cable Plugs- IP66 (collet 5.1-5.5 mm)							
3	838-7222	18.63	17.83	16.75	15.23	14.45	
4	838-7230	19.34	18.53	17.41	15.82	15.01	
5	838-7249	20.17	19.30	18.16	16.50	15.64	
6	838-7257	20.88	19.99	18.81	17.09	16.21	
7	838-7265	21.68	20.77	19.50	17.75	16.81	
1K Straight Cable Sockets- IP66 (collet 5.1-5.5mm)							
3	838-7273	16.28	15.60	14.66	13.33	12.64	
4	838-7281	21.17	20.26	19.06	17.32	16.42	
5	838-7290	20.18	19.33	18.16	16.51	15.66	
6	838-7303	22.65	21.68	20.38	18.54	17.58	
7	838-7311	21.55	20.63	19.40	17.64	16.73	
1K Panel Sockets- IP66							
3	838-7486	16.14	15.45	14.54	13.20	12.52	
4	838-7508	16.95	16.21	15.24	13.86	13.14	
5	838-7516	17.70	16.97	15.94	14.50	13.75	
6	838-7524	18.48	17.69	16.64	15.12	14.36	
7	838-7532	19.40	18.58	17.46	15.87	15.05	
1K Potted Panel Sockets- IP68							
4	838-7338	30.87	29.55	27.78	25.25	23.96	
6	838-7354	35.12	33.64	31.63	28.75	27.27	
7	838-7362	37.29	35.71	33.57	30.51	28.94	



40,000 PRICES REDUCED

2B Series



- 15mm diameter body
- Larger load capacity than 0B and 1B connector series
- Push-pull self-latching system offers ease-of use, while preventing damage to contacts
- Multiple keyways prevent accidental cross mating

Electrical Specification

	3 Way	4 Way	5 Way	6 Way	7 Way
Current Rating	17A	15A	14A	12A	11A
Test Voltage, Contact-Contact (rms)	2.40 KV	1.85 KV	1.75 KV	1.35 KV	1.75 KV
Test Voltage, Contact-Shell (rms)	1.85 KV	1.85 KV	1.60 KV	1.45 KV	1.60 KV
Max Wire Size	16 AWG	20 AWG	20 AWG	20 AWG	20 AWG

	8 Way	10 Way	12 Way	14 Way	19 Way
Current Rating	10A	8A	7A	6.5A	5A
Test Voltage, Contact-Contact (rms)	2.40 KV	1.85 KV	1.75 KV	1.35 KV	1.75 KV
Test Voltage, Contact-Shell (rms)	1.85 KV	1.85 KV	1.60 KV	1.45 KV	1.60 KV
Max Wire Size	22 AWG	22 AWG	22 AWG	22 AWG	22 AWG

Mechanical Specification

Mating Cycles	5000	Socket Contact	Bronze, Gold Plated
Materials:		Insulation	PEEK
Body	Brass, Chrome Plated	Temperature Range	-55°C to +250°C
Pin Contact	Brass, Gold Plated		

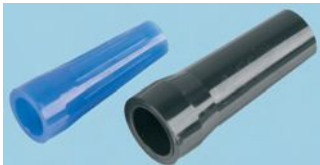
Mfrs. List No.

FGG.2B.303.CLAD92Z=838-6633	PHG.2B.305.CLLD92Z=838-6757	EGG.2B.306.CLL=838-6900
FGG.2B.304.CLAD92Z=838-6641	PHG.2B.306.CLLD92Z=838-6765	EGG.2B.307.CLL=838-6919
FGG.2B.305.CLAD92Z=838-6650	PHG.2B.307.CLLD92Z=838-6773	EGG.2B.308.CLL=838-6927
FGG.2B.306.CLAD92Z=838-6668	PHG.2B.308.CLLD92Z=838-6781	EGG.2B.310.CLL=838-6935
FGG.2B.307.CLAD92Z=838-6676	PHG.2B.310.CLLD92Z=838-6790	EGG.2B.312.CLL=838-6943
FGG.2B.308.CLAD92Z=838-6684	PHG.2B.312.CLLD92Z=838-6803	EGG.2B.314.CLL=838-6951
FGG.2B.310.CLAD92Z=838-6692	PHG.2B.314.CLLD92Z=838-6811	EGG.2B.319.CLL=838-6960
FGG.2B.312.CLAD92Z=838-6706	PHG.2B.319.CLLD92Z=838-6820	FGG.2B.752.DN=838-6838
FGG.2B.314.CLAD92Z=838-6714	EGG.2B.303.CLL=838-6870	FGG.2B.762.DN=838-6846
FGG.2B.319.CLAD92Z=838-6722	EGG.2B.304.CLL=838-6889	FGG.2B.772.DN=838-6854
PHG.2B.303.CLLD92Z=838-6730	EGG.2B.305.CLL=838-6897	FGG.2B.772.DN=838-6854
PHG.2B.304.CLLD92Z=838-6749		

381821

No. of Ways	Order Code	1+	5+	10+	50+	100+
2B Straight Cable Plugs (collet 5.1-6.0mm)						
3	838-6633●	17.65	16.59	15.91	15.20	14.33
4	838-6641●	19.59	18.88	18.24	17.62	17.06
5	838-6650●	18.87	17.75	17.00	16.25	15.32
6	838-6668●	21.02	20.66	19.93	18.93	18.03
7	838-6676●	20.22	19.01	18.21	17.40	16.40
8	838-6684●	22.91	22.08	21.53	20.61	19.64
10	838-6692●	24.08	22.65	21.69	20.72	19.53
12	838-6706●	26.66	25.71	24.93	24.20	23.14
14	838-6714●	25.29	23.79	22.78	21.77	20.52
19	838-6722●	34.79	32.71	31.33	29.93	28.20
2B Straight Cable Sockets (collet 5.1-6.0mm)						
3	838-6730●	17.01	16.40	15.96	15.32	14.59
4	838-6749●	17.62	17.00	16.56	15.85	15.09
5	838-6757●	16.76	16.16	15.74	15.06	14.36
6	838-6765●	19.55	18.85	18.35	17.59	16.75
7	838-6773●	15.53	14.98	14.58	13.97	13.31
8	838-6781●	21.34	20.55	20.01	19.19	18.27
10	838-6790●	23.19	22.36	21.77	20.86	19.87
12	838-6803●	25.18	24.25	23.63	22.65	21.58
14	838-6811●	27.36	26.37	25.69	24.60	23.44
19	838-6820●	32.07	30.92	30.12	28.85	27.48
2B Panel Sockets						
3	838-6870●	14.92	13.88	13.28	12.53	11.71
4	838-6889●	16.72	16.37	15.56	14.12	13.53
5	838-6897●	16.55	15.41	14.74	13.90	13.00
6	838-6900●	20.14	19.43	18.25	16.90	16.37
7	838-6919●	20.39	18.97	18.15	17.13	16.01
8	838-6927●	22.24	21.57	20.62	18.63	18.07
10	838-6935●	20.76	19.31	18.48	17.44	16.30
12	838-6943●	24.27	23.53	22.02	20.14	19.38
14	838-6951●	23.67	22.03	21.08	19.89	18.60
19	838-6960●	28.58	26.58	25.44	24.02	22.45
2B Collets						
Size(mm)						
4.1-5	838-6838●	2.96	2.86	2.75	2.62	2.51
5.1-6	838-6846●	2.75	2.57	2.46	2.33	2.19
6.1-7	838-6854●	2.75	2.57	2.46	2.33	2.19
7.1-8	838-6862●	2.75	2.57	2.46	2.33	2.19

Lemo Strain Relief Boots



- For sizes 00,0B,0K,1B,1K and 2B

381841/406557

Mfrs. List No.	Cable Dia. (mm)	Order Code	1+	5+	Price Each	10+	50+	100+
Blue Boots, For 00 Series								
GMD.00.028.DA	2.8-3.1	381-7891●	0.77	0.70	0.65	0.61	0.55	
Black Boots, For 0B/0K Series								
GMA.0B.025.DN	2.5-2.9	381-7386●	1.29	1.20	1.15	1.07	1.00	
GMA.0B.035.DN	3.5-3.9	381-7398●	1.29	1.20	1.15	1.07	1.00	
GMA.0B.045.DN	4.5-5.2	381-7404●	1.33	1.24	1.19	1.11	1.04	
Blue Boots, For 0B/0K Series								
GMA.0B.035.DA	3.5-3.9	838-7877●	1.40	1.37	1.27	1.22	1.14	
Red Boots, For 0B/0K Series								
GMA.0B.045.DR	4.5-5.2	838-7907●	1.40	1.37	1.27	1.22	1.14	
Black Boots, For 1B/1K Series								
GMA.1B.025.DN	2.5-2.9	381-7994●	1.70	1.55	1.44	1.33	1.22	
GMA.1B.035.DN	3.5-3.9	381-7416●	1.49	1.39	1.33	1.25	1.17	
GMA.1B.045.DN	4.5-5.0	381-7428●	1.49	1.39	1.33	1.25	1.17	
GMA.1B.054.DN	5.4-6.0	381-7430●	1.49	1.39	1.33	1.25	1.17	
Blue Boots, For 1B/1K Series								
GMA.1B.054.DA	5.4-6.0	838-7958●	1.60	1.57	1.52	1.43	1.35	
Red Boots, For 1B/1K Series								
GMA.1B.054.DR	5.4-6.0	838-7966●	1.60	1.57	1.52	1.43	1.35	
Black Boots, For 2B Series								
GMA.2B.060.DN	6.0-6.5	838-6978●	1.99	1.91	1.79	1.70	1.64	
GMA.2B.070.DN	7.0-7.7	838-6994●	1.99	1.91	1.79	1.70	1.64	
GMA.2B.080.DN	7.8-8.8	838-7010●	1.99	1.91	1.79	1.70	1.64	

Lemo 0B,0K,1B,1K and 2B Series Accessories



- For sizes 00,0B,0K,1B,1K and 2B

381609/406558

Mfrs. List No.	To Fit Series	Order Code	1+	5+	Price Each	10+	50+	100+
Dust Caps								
Push Fit Plug Cap- for in-line plugs								
BFG.0B.100.PCSG	0B/0S	381-6904●	4.850	4.430	4.210	3.940	3.590	
BFG.1B.100.PCSG	1B/1S	381-6916●	4.510	4.200	4.030	3.810	3.570	
BFG.2B.100.PCSG	2B	838-7710●	4.890	4.550	4.360	4.120	3.860	
Push Fit Socket Cap- for in-line sockets								
BRA.0B.200.PCSG	0B/0K	381-6930●	4.390	4.080	3.920	3.700	3.470	
BRA.1B.200.PCSG	1B/1S	381-6941●	4.470	4.160	4.000	3.770	3.540	
BRA.2B.200.PCSG	2B	838-7729●	4.680	4.360	4.190	3.940	3.700	
Spring Socket Cap- for panel mount sockets								
BRR.0S.200.PZSG	0B/0S	381-6953●	3.570	3.320	3.180	3.000	2.810	
BRR.1S.200.PZSG	1B/1S	381-6965●	4.190	3.910	3.750	3.530	3.310	
BRR.2S.200.PZSG	2B	838-7737●	4.580	4.260	4.080	3.850	3.600	
Earthing Washers								
GCA.00.255.LT	00	381-8093●	0.186	0.175	0.164	0.153	0.141	
GCA.0S.255.LT	0B/0S	381-8100●	0.260	0.250	0.230	0.220	0.200	
GCA.1S.255.LT	1B/1S	381-8111●	0.330	0.300	0.270	0.260	0.250	
GCA.2S.255.LT	2B	838-7745●	0.440	0.380	0.360	0.340	0.330	

Redel 1P Series



- REDEL Self-Latching Push-Pull system for quick and easy mating and unmating
- Provides security against vibration shock and cable pull
- Top quality lightweight and durable materials
- Can be sterilised by gas or steam
- Gold plated over copper and nickel contacts
- Solder termination
- Available with 3 collet sizes

Current Rating	2 Way	4 Way	5 Way	8 Way
Voltage Operating (rms)	10A	8A	7A	5A
Voltage Test (rms)	400V	400V	350V	350V
Contact Resistance	1.2 kV	1.2 kV	1.05 kV	1.05 kV
Max Wire Size	≤3.5 mΩ	≤4.5 mΩ	≤4.5 mΩ	≤6.5 mΩ
Insulation Resistance	20 AWG	22 AWG	22 AWG	26 AWG
Mating Cycles	≥10 ¹² Ω	Contact Material	Female - Bronze	
Flammability	1000	Contact Plating	Male - Brass	
Housing Material	UL94V-0	Temperature Range	Gold over Nickel over copper	
Insulation Material	Polysulphone		-50°C to +150°C	
	PEEK			

Mfrs. List Nos.

PAG.M0.2GL.AC39G=381-7441	PAG.M0.5GL.AC65G=381-7544	PRG.M0.8GL.LC65G=838-7699
PAG.M0.2GL.AC39N=381-7453	PAG.M0.5GL.AC65N=381-7556	PKG.M0.2GL.LG=381-7751
PAG.M0.2GL.AC52N=381-7465	PAG.M0.8GL.AC52G=381-7568	PKG.M0.2GL.LN=381-7763
PAG.M0.2GL.AC52G=381-7477	PAG.M0.8GL.AC65G=381-7581	PKG.M0.4GL.LG=381-7775
PAG.M0.4GL.AC39G=381-7489	PAG.M0.8GL.AC65N=381-7593	PKG.M0.4GL.LN=381-7787
PAG.M0.4GL.AC52N=381-7507	PRG.M0.2GL.LC39G=838-7540	PKG.M0.5GL.LG=381-7799
PAG.M0.4GL.AC52G=381-7519	PRG.M0.2GL.LC52G=838-7567	PKG.M0.5GL.LN=381-7805
PAG.M0.5GL.AC52G=381-7520	PRG.M0.4GL.LC52N=838-7613	PKG.M0.8GL.LG=381-7817
PAG.M0.5GL.AC52N=381-7532	PRG.M0.5GL.LC52N=838-7648	PKG.M0.8GL.LN=381-7829



Push/Pull Connectors - continued

Redel 1P Series - continued

381822

No. Ways	Colour	Order Code	1+	5+	Price Each 10+	50+	100+
Straight plug with Cable Collet							
2.7-3.9mm Collet							
2	Grey	381-7441●	6.44	5.82	5.58	5.38	5.10
2	Black	381-7453●	6.56	5.93	5.69	5.48	5.13
4.0-5.2mm Collet							
2	Grey	381-7477●	6.56	5.93	5.69	5.48	5.13
2	Black	381-7465●	6.56	5.93	5.69	5.48	5.13
2.7-3.9mm Collet							
4	Grey	381-7489●	7.42	6.69	6.46	6.21	5.83
4.0-5.2mm Collet							
4	Grey	381-7519●	7.42	6.69	6.46	6.21	5.83
4	Black	381-7507●	7.42	6.69	6.46	6.21	5.83
4.0-5.2mm Collet							
5	Grey	381-7520●	7.83	7.07	6.79	6.55	6.14
5	Black	381-7532●	7.83	7.07	6.79	6.55	6.14
5.3-6.5mm Collet							
5	Grey	381-7544●	7.83	7.07	6.79	6.55	6.14
5	Black	381-7556●	7.83	7.07	6.79	6.55	6.14
4.0-5.2mm Collet							
8	Grey	381-7568●	9.02	8.13	7.83	7.54	7.06
5.3-6.5mm Collet							
8	Grey	381-7581●	9.02	8.13	7.83	7.54	7.06
8	Black	381-7593●	9.02	8.13	7.83	7.54	7.06
Straight socket with Cable Collet							
2.7-3.9mm Collet							
2	Grey	838-7540●	10.72	10.10	9.17	8.68	8.41
4.0-5.2mm Collet							
2	Grey	838-7567●	10.72	10.10	9.17	8.68	8.41
4.0-5.2mm Collet							
4	Black	838-7613●	11.82	11.11	10.12	9.59	9.26
4.0-5.2mm Collet							
5	Black	838-7648●	12.39	11.65	10.60	10.06	9.72
5.3-6.5mm Collet							
8	Grey	838-7699●	15.17	14.28	12.97	12.30	11.89
Panel Socket							
2	Grey	381-7751●	7.26	6.54	6.18	5.95	5.57
2	Black	381-7763●	7.26	6.54	6.18	5.95	5.57
4	Grey	381-7775●	8.47	7.62	7.18	6.94	6.50
4	Black	381-7787●	8.47	7.62	7.18	6.94	6.50
5	Grey	381-7799●	9.12	8.22	7.76	7.46	7.00
5	Black	381-7805●	9.12	8.22	7.76	7.46	7.00
8	Grey	381-7817●	11.14	10.03	9.45	9.11	8.54
8	Black	381-7829●	11.14	10.03	9.45	9.11	8.54

Miniature Circular '440' Series
Push-Pull Locking

- Miniature connector with Push-Pull lock
- EMC shielded

	3 Way	6 Way	12 Way	19 Way
Current rating:	6A	6A	3A	3A
Rated voltage:	250V	250V	60V	60V
Test Voltage:	1750V	1750V	550V	550V
Wire gauge max mm ² :	0.75	0.75	0.75	0.75
Wire gauge max AWG:	20	20	20	20
Termination:	Solder			
Contact Resistance:	≤3mΩ			
Insulation Resistance:	≥10MΩ			
Max Cable Dia mm:	8.0MΩ			
IP Rating:	IP67			
Mating Cycles:	≥1000			
Operating temperature range:	-25°C to +95°C			
Pin Contacts:	Brass Gold Plated			
Socket Contacts:	Bronze Gold Plated			

246865

No. of Ways	Mfrs. List No.	Order Code	1+	Price Each 10+	50+
Male Cable Connector					
6	440 99 4817 00 06	112-2530●	7.85	7.20	6.40
12	440 99 4833 00 12	112-2531●	9.44	8.67	7.72
Female Cable Connector					
12	440 99 4834 00 12	112-2534●	8.71	7.99	7.11
Male Panel Connector					
12	440 09 4835 00 12	112-2537●	9.89	9.09	8.09
Female Panel Connector					
6	440 09 4820 00 06	112-2542●	8.62	7.91	7.02

Over 480,000 products online



Miniature Push-Pull Circular Connectors

HR25A Series



New



- Small size, high density - Outside diameters - plugs (max): 11 mm : 4 - 8 way, 13 mm : 12 way
- Polarized for correct insertion by a straight push-in movement
- Built-in lock release mechanism securely locks mated connectors while allowing quick disconnection by simply pulling on the plug release collar
- Choice of socket or pin contacts for plugs, receptacles and jacks
- Secure lock between the metal shells provides excellent ground connection required in applications requiring EMI protection

Specifications:-
Current Rating
Contact Material
Insulation Resistance
Termination Method
Flammability Rating

1A
Phosphor Bronze
30mohm
Solder
UL94V-0

Voltage Rating
Contact Plating
Insulation Resistance
Operating Temp.

30VAC / 42VDC
Gold
1000Mohm
-25°C to 85°C

528725

No. of Ways	Mfrs. List No.	Order Code	1+	10+	Price Each 25+	50+	100+
Plugs, Pin Contacts							
4	HR25A-7P-4P	168-8003●	18.36	17.24	16.24	15.35	14.08
6	HR25A-7P-6P	168-8004●	19.21	18.02	16.98	16.07	14.72
8	HR25A-7P-8P	168-8006●	20.16	18.92	17.83	16.86	15.45
12	HR25A-9P-12P	168-8007●	29.03	27.24	25.67	24.28	22.26
Plugs, Socket Contacts							
4	HR25A-7P-4S	168-8008●	17.96	16.86	15.89	15.03	13.77
6	HR25A-7P-6S	168-8009●	18.49	17.36	16.36	15.46	14.18
8	HR25A-7P-8S	168-8010●	18.94	17.78	16.75	15.84	14.52
12	HR25A-9P-12S	168-8011●	23.46	22.02	20.76	19.63	17.98
Receptacles, Pin Contacts							
4	HR25A-7R-4P	168-8012●	11.47	10.76	10.14	9.59	8.79
6	HR25A-7R-6P	168-8013●	12.33	11.58	10.90	10.31	9.46
8	HR25A-7R-8P	168-8014●	13.28	12.46	11.75	11.11	10.18
12	HR25A-9R-12P	168-8015●	19.49	18.30	17.24	16.30	14.94
Receptacles, Socket Contacts							
4	HR25A-7R-4S	168-8016●	11.07	10.38	9.79	9.25	8.49
6	HR25A-7R-6S	168-8018●	11.62	10.90	10.28	9.72	8.91
8	HR25A-7R-8S	168-8019●	12.04	11.30	10.65	10.07	9.23
12	HR25A-9R-12S	168-8020●	13.92	13.08	12.32	11.65	10.68
Jacks, Pin Contacts							
4	HR25A-7J-4P	168-8021●	18.38	17.26	16.26	15.37	14.10
6	HR25A-7J-6P	168-8022●	19.25	18.06	17.02	16.10	14.76
8	HR25A-7J-8P	168-8023●	20.20	18.96	17.87	16.89	15.48
12	HR25A-9J-12P	168-8024●	29.07	27.30	25.71	24.32	22.29
Jacks, Socket Contacts							
4	HR25A-7J-4S	168-8025●	17.98	16.88	15.91	15.05	13.79
6	HR25A-7J-6S	168-8026●	18.51	17.38	16.38	15.48	14.20
8	HR25A-7J-8S	168-8027●	18.96	17.80	16.77	15.86	14.54
12	HR25A-9J-12S	168-8028●	23.50	22.06	20.79	19.66	18.02

Circular Multipole

DC Power Connectors

KPJX and KPPX Series



- Snap and lock feature helps to prevent accidental disconnects
- 3 or 4 pins transmit power, or one pin can be used for signal transmission
- For Signal or DC Power applications

Contact Rating	3 way Pin 1 and 2 7.5A Pin 3 1A 4 way 7.5A for all pins	Suggested Wire AWG	18 for Power 24 for Signal Wire
Insulation Resistance	50 MΩ at 250V DC	Durability	1000 Cycles
Operating Temperature	-40°C to 85°C		

493698

No. of Ways	Mfrs. List No.	Order Code	1+	Price Each 10+	50+
Free Plug					
3	KPPX-3P	143-7588●	3.11	2.66	2.32
4	KPPX-4P	143-7589●	3.59	3.07	2.69
PCB Jack					
3	KPJX-3S	143-7590●	1.76	1.51	1.33
4	KPJX-4S	143-7591●	1.95	1.66	1.46
3 Shielded	KPJX-3S-S	143-7592●	1.90	1.64	1.43

Circular miniature connector



- Compact design and light weight
- Aluminium body to ensure durability
- Positive locking mechanism with locked colour indicators
- Boot termination

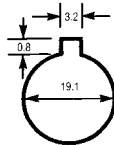


484540



Description	No. of Ways	Order Code	1+	10+	50+
Plug, Shell Size 2					
Plug, Socket contacts	3	143-8652●	35.67	31.71	28.54
Plug, Pin contacts	3	143-8653●	34.31	30.50	27.45
Plug, Socket contacts	5	143-8659●	35.67	31.71	28.54
Plug, Pin contacts	5	143-8660●	34.31	30.50	27.45
Receptacle, Shell Size 2					
Oval Receptacle, Socket contacts	3	143-8650●	25.87	23.00	20.70
Oval Receptacle, Pin contacts	3	143-8651●	24.77	22.02	19.82
In line Receptacle, Socket contacts	3	143-8654●	27.78	24.70	22.23
In line Receptacle, Pin contacts	3	143-8655●	25.87	23.00	20.70
Oval Receptacle, Socket contacts	5	143-8656●	29.01	25.80	23.21
Oval Receptacle, Pin contacts	5	143-8658●	27.78	24.70	22.23
In line Receptacle, Socket contacts	5	143-8661●	24.77	22.02	19.82
In line Receptacle, Pin contacts	5	143-8662●	25.87	23.00	20.70

6 Pole 3A

P636 (P428)
L=56, Dia=20.5P635 (P427)
L=34.1 Dia=23.5Panel
cut-out

A six pole mating pair of panel inlet connectors. The female plug has fully shrouded sockets keyway polarising, internal solder terminations and cable strain relief. A rear insulation boot is available for improved safety, Order Code **151-744**.

Contact rating 3A @ (50V ac)* Housing Black phenolic resin
Temperature range -20°C to 60°C Contacts Brass, Silver plated

*Warning: P636 (50V rated) may be used for 250V ac operation but only when used in totally enclosed applications.

Mfrs. List No. PX0635=314-432, PX0636=314-420

219767

	Order Code	1+	50+	100+	250+	500+	1K+
Free socket	314-420●	2.59	2.43	2.20	2.06	1.97	1.81
Panel plug	314-432●	2.17	2.03	1.84	1.75	1.66	1.54

Series 620



- Connector with snap-in locking
- Internal strain relief

- Easy Assembly
- IP67

Locking System Snap In
Termination Solder
Operating Temperature -40°C to 85°C

Rated Voltage 3 way 125V 4 way 60V
Current Rating 3 way 3A 4 way 2A
Contact Plating Gold

493629

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+
Free Plug					
3	99-9205-00-03	143-7595●	4.23	3.71	3.29
4	99-9209-00-04	143-7596●	5.14	4.49	4.00
Free Socket					
3	99-9206-00-03	143-7597●	5.94	5.20	4.62
4	99-9210-00-04	143-7599●	9.51	8.32	7.39
Panel Plug					
3	99-9207-00-03	143-7600●	3.82	3.33	2.97
4	99-9211-00-04	143-7601●	6.63	5.79	5.16
Panel Socket					
3	99-9208-00-03	143-7602●	3.89	3.39	3.02
4	99-9212-00-04	143-7603●	4.35	3.81	3.39
Adapter for Socket					
Rear mount	08-2636-000-001	143-7605●	3.64	3.18	2.84
Front mount	08-2629-000-001	143-7606●	3.64	3.18	2.84

'678' Series



- Miniature circular connector
- Bayonet locking
- IP40 rating when mated
- Internal strain relief



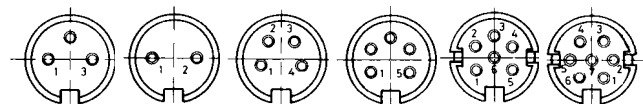
Housing PBT (PA66), UL94HB, Black
Insulator PBT UL94V-0
Female Contact Bronze
Male Contact Brass
IP Rating IP40 When mated

Current Rating 7A 2-3 Pole, 6A 4-6 Pole, 5A 7 Pole
Voltage Rating 250V 2-5 Pole, 125V 6-7 Pole
Contact Resistance ≤5mΩ
Insulation Resistance ≥10¹⁰Ω
Temperature Range -40°C to +85°C

231738

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+
Free Plug					
2	99 0601 00 02	112-2396●	1.93	1.51	1.31
3	99 0605 00 03	112-2397●	2.36	1.84	1.59
4	99 0609 00 04	112-2398●	2.42	1.89	1.64
5	99 0613 00 05	112-2399●	2.62	2.07	1.78
7	99 0621 00 07	112-2401●	2.80	2.22	1.92
Free Socket					
2	99 0602 00 02	112-2402●	2.63	2.07	1.79
3	99 0606 00 03	112-2403●	2.80	2.22	1.92
4	99 0610 00 04	112-2404●	3.11	2.44	2.11
5	99 0614 00 05	112-2405●	3.44	2.68	2.33
7	99 0622 00 07	112-2407●	3.75	2.93	2.55
Panel Plug - Solder Bucket Contacts					
2	99 0603 00 02	112-2408●	2.00	1.56	1.36
3	99 0607 00 03	112-2409●	2.03	1.58	1.38
4	99 0611 00 04	112-2410●	2.39	1.87	1.63
5	99 0615 00 05	112-2412●	2.48	1.95	1.68
7	99 0623 00 07	112-2413●	2.95	2.32	2.01
Panel Socket - Solder Bucket Contacts					
2	99 0604 00 02	112-2414●	1.61	1.26	1.12
3	99 0608 00 03	112-2415●	1.69	1.33	1.16
4	99 0612 00 04	112-2416●	1.94	1.53	1.33
5	99 0616 00 05	112-2417●	1.97	1.55	1.34
7	99 0624 00 07	112-2418●	2.26	1.78	1.54

Miniature Circular 'Series 680'



- Miniature round connector with threaded coupling
- Low cost
- Suitable for industrial electronics
- Screw cable clamp clip

Contact rating 5A@250V 2-8way 3A@250V 12+16way
Contact resistance ≤3mΩ
Insulation resistance >10¹⁰Ω (IEC512, part2)
Capacitance between adjacent contacts 2.5pF
Temperature range -40°C to +85°C
Housing Brass, nickel plating
Dielectric PETP
Contact (socket) Copper/tin alloy, silver plating
Contact (pins) Copper / Zinc Alloy, Silver plating
Maximum wire size 0.75mm² 2-8way 0.25mm² 12+16way
Cable gland outlet 4-6mm

209136

No. of Ways	Mfrs. List No.	Order Code	1+	20+	50+	100+	500+
Free Plug							
2	09 0301 00 02	112-2582●	3.79	3.33	3.07	2.80	2.65
3	09 0305 00 03	112-2583●	3.53	3.36	3.02	2.80	2.60
4	09 0309 00 04	112-2584●	3.74	3.50	3.36	3.14	2.95
5	09 0313 00 05	112-2585●	4.14	3.87	3.72	3.49	3.28
5	09 0317 00 05	112-2810●	8.05	6.66	6.13	5.68	5.41
6	09 0321 00 06	112-2586●	3.96	3.69	3.55	3.35	3.14
7	09 0325 00 07	112-2588●	4.74	4.42	4.21	3.99	3.72
8	09 0571 00 08	112-2811●	5.96	5.56	5.32	5.02	4.70
12	09 0329 00 12	112-2813●	8.10	7.52	7.00	6.47	6.03
16	09 0337 00 16	112-2814●	9.87	8.93	8.08	7.52	6.99
Free Socket							
2	09 0302 00 02	112-2589●	3.54	3.22	3.03	2.77	2.67
3	09 0306 00 03	112-2590●	3.78	3.38	3.04	2.81	2.62
4	09 0310 00 04	112-2591●	3.89	3.64	3.49	3.27	3.07
5	09 0314 00 05	112-2592●	4.18	3.91	3.75	3.53	3.31
5	09 0318 00 05	112-2815●	4.72	4.09	3.75	3.39	3.22
6	09 0322 00 06	112-2593●	4.16	3.89	3.80	3.57	3.49
7	09 0326 00 07	112-2594●	4.91	4.59	4.38	4.14	3.87
8	09 0572 00 08	112-2816●	6.08	5.62	5.37	5.06	4.71
12	09 0330 00 12	112-2817●	8.62	8.01	7.45	6.85	6.56
16	09 0338 00 16	112-2818●	11.65	10.53	9.74	8.93	8.78
Panel Plug - Solder bucket contacts							
2	09 0303 00 02	112-2595●	3.05	2.71	2.46	2.25	2.16
3	09 0307 00 03	112-2596●	3.00	2.71	2.44	2.26	2.10
4	09 0311 00 04	112-2597●	3.21	2.90	2.64	2.43	2.39
5	09 0315 00 05	112-2598●	3.09	2.88	2.77	2.62	2.46
5	09 0319 00 05	112-2823●	3.58	3.06	2.72	2.57	2.44
6	09 0323 00 06	112-2600●	3.70	3.27	2.95	2.71	2.69
7	09 0327 00 07	112-2601●	3.69	3.41	3.29	3.08	2.88
8	09 0473 00 08	112-2825●	5.69	5.26	5.02	4.74	4.40
12	09 0331 00 12	112-2826●	7.05	6.58	6.29	5.94	5.56
16	09 0339 00 16	112-2827●	8.81	7.75	6.98	6.36	6.25



Circular Multipole - continued

Miniature Circular 'Series 680' - continued

No. of Ways	Mfrs. List No.	Order Code	1+	20+	50+	100+	500+
Panel Socket- Solder bucket contacts							
2	09 0304 00 02	112-2602	2.89	2.66	2.39	2.19	2.10
3	09 0308 00 03	112-2603	3.07	2.69	2.42	2.24	2.09
4	09 0312 00 04	112-2604	2.95	2.76	2.65	2.49	2.34
5	09 0316 00 05	112-2606	3.09	2.88	2.76	2.60	2.43
5	09 0320 00 05	112-2819	3.88	2.98	2.71	2.48	2.43
6	09 0324 00 06	112-2607	3.06	2.86	2.74	2.59	2.43
7	09 0328 00 07	112-2608	4.26	3.97	3.82	3.60	3.38
8	09 0474 00 08	112-2820	5.51	5.08	4.86	4.59	4.26
12	09 0332 00 12	112-2821	7.46	6.94	6.66	6.29	5.89
16	09 0340 00 16	112-2822	12.20	10.20	9.69	8.91	8.64

Miniature Circular Series 682



- Low profile 90° cable connector version of the 680 series
- Solder buckets
- Integral cable clamp (max.cable 6mm)
- Sealing to IP40 when mated

Current rating
Voltage rating
Applicable wire
Cable outlet
Housing
Contact pin
Contact socket
Contact resistance
Insulation resistance
Withstanding voltage
Temperature range

5A (2-8 way), 5A (12 + 16 Way)
250V ac (VDE standard 0110)
(2-8 way) 0.25 mm² (12-16 way)
4-6mm
PA66 UL 94 HB
Brass (Silver/Gold) plated
Bronze (Silver/Gold) plated
≤3mΩ
>10¹⁰Ω
500V ac @ 1 min.
-40°C to +85°C

227272

No. of Ways	Mfrs. List No.	Order Code	1+	50+	100+	500+
Free Plug 90°						
2	09 0133 70 02	112-2383	5.74	4.50	3.91	3.83
4	09 0137 70 04	112-2385	6.34	4.98	4.32	4.05
5	09 0139 70 05	112-2386	6.35	4.99	4.32	4.16
5	09 0139 70 05	112-2386	6.35	4.99	4.32	4.16
8	09 0153 70 08	112-2387	6.84	5.42	4.65	4.36
12	09 0147 70 12	112-2388	7.86	6.17	5.36	5.01
Free Socket 90°						
5	09 0140 70 05	112-2392	6.15	4.82	4.18	3.93
8	09 0154 70 08	112-2394	7.17	5.62	4.88	4.63
12	09 0148 70 12	112-2395	10.65	8.35	7.25	6.91

Series 702



1437607

1437612

1437615

1437619

- Connector moulded on PUR cable
- Connector and cable have 360° EMC protected shielding
- Compatible with connector series 712
- 2m cable with cable assembly
- IP67

Rated Voltage
Current Rating
Contact Plating

3 way 125V 4 way 60V
3 way 3A 4 way 2A
Gold

Locking System
Termination

Snap In
Solder

493678

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+
Cable Assembly Plug					
2	79-1405-12-02	143-7607	18.29	16.01	14.23
4	79-1409-12-04	143-7608	19.41	16.98	15.09
5	79-1413-12-05	143-7609	20.48	17.93	15.94
7	79-1421-12-07	143-7610	27.36	23.93	21.27
8	79-1425-12-08	143-7611	28.32	24.78	22.04
Cable Assembly Socket					
5	79-1414-12-05	143-7612	21.31	18.65	16.58
7	79-1422-12-07	143-7613	29.54	25.85	22.98
8	79-1426-12-08	143-7614	30.86	26.99	23.98
Panel Socket					
2	09-0404-00-02	143-7619	3.77	3.53	3.39
4	09-0412-00-04	143-7620	6.21	5.43	4.83
5	09-0416-00-05	143-7621	4.97	4.65	4.45
7	09-0424-00-07	143-7622	6.17	5.74	5.50
8	09-0428-00-08	143-7623	9.75	8.54	7.59

Series 707



1437624

1437625

1437626

1437627

- Circular connector with M5x0.5 screw locking
- Connector moulded on 2m of cable
- Thread nut vibration resistant
- IP67 Protection

Rated Voltage
Current Rating
Contact Plating

3 way 125V 4 way 60V
3 way 3A 4 way 2A
Gold

Locking System
Termination

Snap In
Solder

493679

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+
Cable Assembly					
Plug 4 way 2m	79-3107-52-04	143-7624	13.80	12.08	10.74
Socket 4 way 2m	79-3108-52-04	143-7625	14.91	13.03	11.59
Flying Lead					
Panel plug 4 way	09-3111-86-04	143-7626	11.45	10.01	8.90
Panel Socket 4 way	09-3112-00-04	143-7627	12.23	10.70	9.51

Subminiature Connector '710' Series



- Subminiature bayonet style
- Cable housing with integrated strain relief
- 500+ mating cycles
- Solder bucket contacts
- IP40 rating (when mated)

Current rating:
Rated voltage:
Wire gauge:
Contact resistance:
Insulation resistance:
Operating temperature range:
Contact material:
Contact plating:
Cable connector body:
Socket body:
Insulator material:
Max cable outlet:
Panel mounting hole dia.:

4A(2,3 way) 3A(4,5 way) 1A(7,8 way)
125V
0.25mm²(2-5 way) 0.14mm²(7-8 way)
≤3mΩ
>=10¹⁰Ω
-40°C to +85°C
Pins: Brass; Sockets: Bronze
Gold over nickel
Polyamide. **UL94HB**
Polyamide. **UL94V-0**
Glass filled polyester. **UL94V-0**
3-4mm
10.1mm

227270

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+
Free Plug					
2	99 0971 100 02	112-2358	3.44	2.68	2.34
3	99 0975 100 03	112-2359	3.54	2.76	2.40
4	99 0979 100 04	112-2360	3.67	2.88	2.51
5	99 0995 100 05	112-2361	3.93	3.07	2.66
7	99 9475 100 07	112-2362	4.48	3.50	3.05
8	99 9479 100 08	112-2363	4.90	3.83	3.32
Free Socket					
2	99 0972 100 02	112-2364	3.94	3.10	2.67
3	99 0976 100 03	112-2365	4.00	3.15	2.71
4	99 0980 100 04	112-2366	4.10	3.21	2.78
5	99 0996 100 05	112-2367	4.13	3.24	2.81
Panel Plug					
2	09 0973 00 02	112-2371	2.38	2.24	2.13
3	09 0977 00 03	112-2372	2.49	2.34	2.23
4	09 0981 00 04	112-2373	2.58	2.41	2.30
5	09 0997 00 05	112-2374	2.68	2.50	2.39
7	09 9477 00 07	112-2375	4.24	3.33	2.88
Panel Socket					
2	09 0974 00 02	112-2376	2.49	2.34	2.22
3	09 0978 00 03	112-2377	2.52	2.36	2.25
4	09 0982 00 04	112-2378	2.63	2.45	2.35
5	09 0998 00 05	112-2379	2.62	2.43	2.35
7	09 9478 00 07	112-2380	5.39	4.21	3.68
8	09 9482 00 08	112-2382	6.00	4.70	4.08

Subminiature Connector '711' Series



- Subminiature screw locking style
- Compatible with 702 and 712 Series
- Cable housing with integrated strain relief
- 500+ mating cycles
- Solder bucket contacts
- IP40 rating (when mated)

Current rating:
Rated voltage:
Wire gauge:
Contact resistance:
Insulation resistance:
Operating temperature range:
Contact material:

4A (2,3 way) 3A (4,5 way) 1A (7,8 way)
125V
0.25mm²(2-5 way) 0.14mm²(7-8 way)
≤3mΩ
>=10¹⁰Ω
-40°C to +85°C
Pins: Brass; Sockets: Bronze

Over 480,000 products online



Contact plating: Gold over nickel
 Cable connector body: Polyamide. **UL94HB**
 Socket body: Brass, nickel plated
 Insulator material: Glass filled polyester. **UL94V-0**
 Max cable outlet: 3-4mm
 Panel mounting hole dia.: 9.1mm

227271

No. of Ways	Mfrs. List No.	Order Code	1+	Price Each 10+	50+
Free Plug					
2	99 0071 100 02	121-6757 ●	4.00	3.15	2.71
3	99 0075 100 03	112-2333 ●	4.11	3.22	2.79
4	99 0079 100 04	112-2334 ●	4.27	3.36	2.90
5	99 0095 100 05	112-2335 ●	4.55	3.57	3.11
7	99 0475 100 07	112-2336 ●	6.61	5.20	4.50
8	99 0479 100 08	112-2337 ●	7.45	5.84	5.08
Free Socket					
2	99 0072 100 02	112-2338 ●	3.99	3.14	2.70
3	99 0076 100 03	112-2339 ●	4.55	3.57	3.11
4	99 0080 100 04	112-2340 ●	4.65	3.65	3.17
5	99 0096 100 05	112-2341 ●	4.93	3.88	3.36
7	99 0476 100 07	112-2342 ●	6.66	5.23	4.52
8	99 0480 100 08	112-2343 ●	7.45	5.84	5.08
Panel Plug					
2	09 0073 00 02	112-2345 ●	3.09	2.42	2.10
3	09 0077 00 03	112-2346 ●	3.08	2.82	2.60
4	09 0081 00 04	112-2347 ●	3.17	2.92	2.70
5	09 0097 00 05	112-2348 ●	3.35	3.08	2.82
7	09 0477 00 07	112-2349 ●	4.72	4.41	4.03
8	09 0481 00 08	112-2350 ●	5.53	4.33	3.78
Panel socket					
2	09 0074 00 02	112-2351 ●	3.15	2.47	2.15
3	09 0078 00 03	112-2352 ●	3.08	2.82	2.60
4	09 0082 00 04	112-2353 ●	3.17	2.92	2.70
5	09 0098 00 05	112-2354 ●	3.51	2.74	2.39
7	09 0478 00 07	112-2355 ●	4.96	4.63	4.34
8	09 0482 00 08	112-2357 ●	4.34	3.42	2.96

Series 713



- M12 x 1 Round, Sensor connectors
- Plugs and couplings are delivered as kits
- M12x0.5 attachment nut

Contact mount material: PUR coupling part, PA built-in part
 Spring contact material: CuSn
 Pin contact material: CuZn
 Housing Ingress Protection class: IP67 (inserted)
 Current load capacity: 4A

Rated voltage VDE: 60VAC/75VDC
 Test voltage: 500VAC
 Volume resistance: $\geq 5\text{m}\Omega$
 Isolation resistance: $\leq 10\ \Omega$
 Capacitance in operation: 3pF

239328

No. of Ways	Entry	Mfrs. List No.	Order Code	1+	Price Each 5+	10+
Coupling plug						
Metal threaded interlock						
4	PG7	9904291404	112-2451 ●	5.88	5.48	5.24
5	PG7	9904371405	112-2452 ●	3.96	3.76	3.58
Angled connector						
4	PG7	9904292404	112-2453 ●	4.25	3.91	3.71
Coupling socket						
Metal threaded interlock						
4	PG7	9904301404	112-2449 ●	5.55	5.11	4.82
5	PG7	9904361405	112-2450 ●	4.59	4.21	3.97

3A, Subminiature Connector - 'Series 719'



658-443
 L=24, Dia.=8

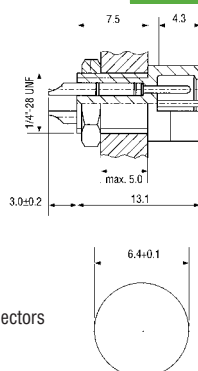
658-479

- 3, 4 & 5 pole mating pairs of panel inlet subminiature connectors
- Single keyway polarisation
- Positive snap-in device
- Internal pinch ring cable clamp
- Very small size

Contact rating: 3A @ 125V ac
 Temperature range: -40°C to +85°C
 Housing: Polyamide

Contacts: Copper Alloy, Nickel/Gold plating
 Termination: Solder Bucket
 Wire conductor size: 0.25mm²

209001



No. of Ways	Mfrs. List No.	Order Code	1+	20+	Price Each 50+	100+	500+
Free Plug							
3	09 9747 70 03	112-2802 ●	2.89	2.67	2.60	2.45	2.37
4	09 9767 70 04	112-2545 ●	3.59	3.32	3.21	2.80	2.51
5	09 9789 71 05	112-2803 ●	4.21	3.92	3.76	3.55	3.33
Free Socket							
3	09 9748 70 03	112-2804 ●	2.86	2.65	2.60	2.43	2.29
4	09 9764 70 04	112-2546 ●	3.44	3.18	3.12	2.72	2.44
5	09 9790 70 05	112-2805 ●	4.35	4.08	3.95	3.70	3.56
Panel Plug							
3	09 9749 30 03	112-2806 ●	2.24	2.06	1.97	1.87	1.74
4	09 9765 30 04	112-2547 ●	2.52	2.32	2.23	2.10	2.01
5	09 9791 30 05	112-2807 ●	2.69	2.51	2.41	2.27	2.15
Panel Socket							
3	09 9750 30 03	112-2808 ●	2.44	2.26	2.17	2.04	1.91
4	09 9766 30 04	112-2548 ●	2.77	2.55	2.44	2.31	2.19
5	09 9792 30 05	112-2809 ●	3.02	2.82	2.70	2.56	2.43

720 Series



- Miniature circular connector
- Snap in locking, vibration proof
- Internal strain relief
- IP67 when mated

Termination: Solder
 Wire Size: 0.75mm² Max
 Insulation Resistance: 10¹⁰Ω
 Current Rating: 3 pole 7A, 5 pole 5A, 8 and 12 pole 2A
 Temperature Range: -40 °C to +80 °C
 IP Rating: IPI67 when mated

231709

No. of Ways	Mfrs. List No.	Order Code	1+	Price Each 50+	100+
Free plug, Cable Dia 2.5-4.0mm					
3	99 9105 03 03	112-2469 ●	2.25	1.90	1.78
5	99 9113 03 05	112-2474 ●	4.24	3.63	3.33
Free plug, Cable Dia 4.0-6.0mm					
3	99 9105 00 03	112-2468 ●	3.15	2.68	2.50
5	99 9113 00 05	112-2473 ●	4.57	3.91	3.60
8	99 9125 00 08	112-2477 ●	5.54	4.69	4.34
Free plug, Cable Dia 6.0-8.0mm					
12	99 9133 02 12	112-2479 ●	7.21	6.14	5.67
Free socket, Cable Dia 2.5-4.0mm					
3	99 9106 03 03	112-2471 ●	4.13	3.52	3.23
Free socket, Cable Dia 4.0-6.0mm					
3	99 9106 00 03	112-2470 ●	4.43	3.77	3.47
5	99 9114 00 05	112-2475 ●	5.15	4.38	4.03
8	99 9126 00 08	112-2478 ●	6.84	5.81	5.38
Free socket, Cable Dia 6.0-8.0mm					
5	99 9114 02 05	112-2476 ●	4.54	3.87	3.56
Panel Plug					
3	99 9107 00 03	112-2480 ●	2.35	2.00	1.84
5	99 9115 00 05	112-2481 ●	2.50	2.13	1.97
Panel Socket					
3	99 9108 00 03	112-2482 ●	3.25	2.74	2.55
5	99 9116 00 05	112-2483 ●	4.88	4.15	3.83
8	99 9128 00 08	112-2485 ●	6.44	5.47	5.04
12	99 9136 00 12	112-2486 ●	8.70	7.39	6.82
Socket adaptor back assembly					
08 2433 000 001	112-2487 ●		2.56	2.17	2.01
Socket adaptor front assembly					
08 2434 000 001	112-2488 ●		2.52	2.14	1.98

C091B Series Plastic Circular



- Cost effective, plastic circular connectors
- Bayonet locking
- Internal metal strain relief with half-shell construction and snap-in latching
- UL Recognised

Rated voltage: 250V ac
 Test voltage: 980V ac
 Current rating: 5A
 Contact plating: Silver
 Contact resistance: $<5\text{m}\Omega$
 Insulation resistance: 10¹²Ω
 Mating cycles: >500

Operating temperature: -40°C to 85°C
 Protection: IPI40
 Termination: Solder
 Dielectric: Thermoplastic
 Wire conductor size: 0.5mm² max.



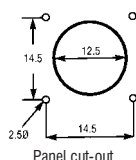
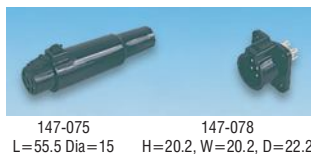
Circular Multipole - continued

C091B Series Plastic Circular - continued

231123

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+
Free Plug - Cable Mount						
3	T 3274 501	118-0959●	3.23	3.00	2.86	2.74
4	T 3324 501	118-0960●	3.51	3.23	3.11	3.00
5	T 3374 501	112-3505●	3.26	3.02	2.89	2.72
6	T 3424 501	112-3507●	3.65	3.36	3.11	2.95
7	T 3434 501	112-3509●	3.24	2.99	2.86	2.74
8	T3524 501FA	128-1698●	4.43	4.07	3.90	3.68
Free Socket - Cable Mount						
3	T 3278 501	112-3510●	4.27	3.94	3.73	3.52
4	T 3328 501	112-3511●	3.94	3.63	3.48	3.27
5	T 3378 501	112-3513●	4.04	3.72	3.56	3.42
6	T 3428 501	112-3514●	4.23	3.91	3.74	3.58
7	T3438 501FA	128-1700●	4.07	3.82	3.66	3.45
8	T3528 501FA	128-1701●	5.07	4.77	4.57	4.37
Panel Socket - Snap In Mount						
3	T3277 500FA	128-1702●	1.93	1.79	1.67	1.60
4	T3327 500FA	128-1703●	2.41	2.20	2.08	1.97
8	T3527 500FA	128-1704●	3.49	3.24	3.12	2.99
12	T3627 500FA	128-1705●	4.42	4.15	3.96	3.83
Panel Socket - Ring Nut Mount						
3	T 3277 000	112-3516●	2.35	2.17	2.07	1.98
4	T 3327 000	112-3517●	2.80	2.56	2.45	2.30
5	T 3377 000	112-3519●	2.22	2.03	1.88	1.78
6	T 3427 000	112-3521●	2.69	2.46	2.31	2.16
7	T 3437 000	112-3523●	2.44	2.22	2.08	1.96

6 Pole Locking 5A



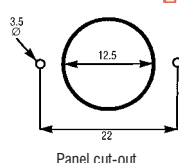
Low cost locking 6 pole inlet connectors. The female plug has fully shrouded sockets, a polarising/locking mechanism, solder termination and a cable clamp.

Contact rating	5A @ 150V ac	Housing Contacts	Black Polyacetal	Pin Sockets	Phosphor Bronze, Silver plated Phosphor Bronze, Silver plated
Mfrs. List Nos:	RPC1-12P-6S(03) RPC1-12RB-6PBLK	= 147-075 = 147-078	RPC1-12P-6S(72) RPC1-12RB-6P(71)	= 107-7724 = 107-7728	

209352

	Order Code	1+	50+	150+	250+
Free socket	107-7724●	3.54	2.68	2.13	1.84
Panel Plug	107-7728●	2.57	1.96	1.55	1.32

7 Pole Latching 5A



The female plug has fully shrouded sockets, solder terminations and cable clamping. The chassis plug has shrouded pins to avoid accidental damage.

Contact rating	5A @ 150V ac	Housing Contacts	BluePolyamide	Pin Sockets	Phosphor Bronze, Silver plated Phosphor Bronze, Silver plated
RPC2-12P-7S(71)	= 107-7725	RPC2-12RB-7P(71)	= 107-7729		

209353

	Order Code	1+	50+	150+	250+
Free socket	107-7725●	3.82	2.89	2.30	1.97
Panel Plug	107-7729●	2.63	2.00	1.60	1.38

Push-pull bearing latched



- Unique push-pull latching mechanism
- Vibration and Impact proof connection
- Lightweight



Current rating	2A	Body	Nickel plated
Voltage rating	300V rms 3, 12 way	Contacts	Gold plated turned brass
	200V rms 8 way	Acceptable wire size	24AWG
	150V rms 5 way		
Contact resistance	8mΩ max		
Operating temperature	-25°C to 85°C		

209276

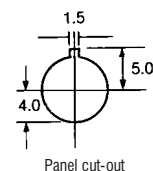
No of Ways	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+	250+
Free Plug								
3	PRC05P3M	117-0439●	8.64	7.92	7.04	6.62	6.28	5.68
5	PRC05P5M	117-0440●	9.02	8.27	7.35	6.90	6.58	5.93
8	PRC05P8M	117-0441●	10.68	9.82	8.70	8.19	7.79	7.01
12	PRC05P12M	117-0443●	25.32	23.27	20.64	19.36	18.43	16.65
Free Socket								
3	PRC05P3F	117-0444●	8.21	7.52	6.70	6.27	5.97	5.39
5	PRC05P5F	117-0445●	8.45	7.74	6.89	6.46	6.14	5.55
8	PRC05P8F	117-0446●	10.16	9.31	8.28	7.77	7.41	6.67
12	PRC05P12F	117-0447●	20.25	18.61	16.53	15.49	14.75	13.31
Panel Plug								
3	PRC05R3M	117-0448●	7.14	6.57	5.84	5.46	5.23	4.70
5	PRC05R5M	117-0449●	5.79	5.31	5.05	4.72	4.52	3.98
8	PRC05R8M	117-0450●	6.83	6.29	5.61	5.25	5.00	4.50
12	PRC05R12M	117-0451●	14.14	12.98	11.52	10.81	10.30	9.29
Panel Socket								
3	PRC05R3F	117-0452●	5.11	4.70	4.16	3.92	3.69	3.35
5	PRC05R5F	117-0453●	6.63	6.10	5.42	5.09	4.86	4.37
8	PRC05R8F	117-0455●	6.32	5.82	5.15	4.83	4.60	4.14
12	PRC05R12F	117-0456●	10.95	10.05	8.94	8.39	7.98	7.21

HR10 Series Miniature Latching 4 and 6 Way 2A3



Free socket mates with jack plug or fixed plug. Free plug mates with jack socket or fixed socket.

A range of subminiature push-pull latching connectors providing a robust mechanism in a very compact package.



Current rating	2A @ 100V ac 140V dc	Housing	Zinc alloy and brass matt finished, nickel plated
Withstand	500V ac for 4 way	Insulators	(Blue) Glass reinforced nylon 66
Operating voltage	300V ac for 6 way	Contacts	Brass, gold plated.
Contact resistance	10mΩ max	Pin Sockets	Beryllium copper, gold plated
Cable dia.	5.2mm max		

Mfrs. List No.	HR10 7P 4P=107-7702	HR10 7P 6P=107-7704	HR10 7J 4P=1107-7711
	HR10 7J 6P=107-7712	HR10 7R 4P=107-7707	HR10 7R 6P=107-7708
	HR10 7P 4S=107-7700	HR10 7P 6S=107-7701	HR10 7J 4S=107-7709
	HR10 7J 6S=107-7710	HR10 7R 4S=107-7705	HR10 7R 6S=107-7706

209354

No. of Ways	Order Code	1+	50+	150+	250+
Free Plugs					
4	107-7702●	12.24	10.55	9.14	8.40
6	107-7704●	12.89	11.10	9.61	8.84
Jack Plugs					
4	107-7711●	13.31	10.49	9.00	8.41
6	107-7712●	12.12	9.72	8.42	8.13
Panel Plugs					
4	107-7707●	9.57	7.09	6.10	5.43
6	107-7708●	9.25	7.29	6.26	5.84
Free Sockets					
4	107-7700●	13.69	11.27	10.04	9.66
6	107-7701●	14.16	12.54	11.15	10.23
Jack Sockets					
4	107-7709●	13.53	10.97	9.51	9.18
6	107-7710●	13.74	11.31	10.08	9.70
Panel Sockets					
4	107-7705●	10.31	8.75	7.49	6.67
6	107-7706●	12.51	10.42	8.94	8.35

RM12B Series Bayonet 3 and 6 Way 5A

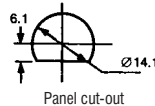


Free socket mates with jack plug and fixed plug. Free plug mates with jack socket and fixed socket. A range of miniature bayonet locking circular multipole connectors available in both panel and inline combinations.

Mfrs. List No.	RM12BPG 3PH=107-7716	RM12BPG 6PH=107-7717
	RM12BPG 3S07=107-7713	RM12BPG 6S07=107-7714
	RM12BPG 3S07=107-7718	RM12BPG 6S07=107-7719
	RM12BPG 3S07=147048	RM12BPG 6S07=147049
	RM12BPG 3PH=147050	RM12BPG 6PH=147050

Contact rating 5A
Operating voltage 3 pin (500Vac) 6 pin (350V ac)
Contact resistance 4mΩ

Housing Diecast zinc matt finish, nickel plated
Insulators Diallyl phthalate, **UL94V-0**
Contacts Pin Brass, silver plated
Socket CDA alloy, silver plated



Panel cut-out

209355

No. of Ways	Order Code	1+	50+	150+	250+
Free Plugs					
3	107-7716●	9.29	7.41	6.36	5.39
6	107-7717●	9.41	7.41	6.36	5.66
Jack Plugs					
3	147-050●	7.13	5.37	4.63	4.11
6	147-051●	8.10	6.00	5.16	4.59
Panel Plugs					
3	107-7720●	4.40	4.16	3.34	2.86
6	107-7722●	5.08	4.53	3.62	3.09
Free Sockets					
3	107-7713●	9.79	7.71	6.62	5.89
6	107-7714●	10.85	8.55	7.33	6.52
Jack Sockets					
3	147-048●	11.74	10.68	8.56	7.28
6	147-049●	9.81	8.26	7.09	6.29
Panel Sockets					
3	107-7718●	5.55	4.84	3.90	3.31
6	107-7719●	7.25	5.37	4.63	4.04

Circular Connectors



Series 03



Type Description
0322 Socket 360°Shielded
0322 Plug 360°Shielded
0304 Socket, Front mounting, Screwed from rear, Solder terminals
0305 Socket Rear/side mounting, screwed from front, Solder terminals
0314 Plug, Front mounting, Screwed from rear, Solder terminals
0315 Plug, Rear/side mounting, screwed from front, Solder terminals.

239693

No of Ways	Mfrs. List No.	Order Code	1+	Price Each 10+	50+
Plug 360° Shielded					
3	0332 03	121-2128●	3.67	3.48	3.37
4	0332 04	121-2130●	3.74	3.55	3.44
6	0332 06	121-2131●	3.86	3.67	3.56
7 DIN 45329	0332 07-1	121-2132●	5.45	4.72	4.09
8	0332 08	121-2133●	3.91	3.71	3.60
8 DIN 45326	0332 08-1	121-2134●	5.68	4.91	4.26
12	0332 12	121-2135●	5.42	5.16	5.00
Socket 360°Shielded					
3	0322 03	121-2136●	3.86	3.67	3.56
4	0322 04	121-2137●	3.93	3.73	3.61
6	0322 06	121-2139●	4.10	3.90	3.78
7 DIN 45321	0322 07-1	121-6973●	5.96	5.16	4.47
8	0322 08	121-2141●	4.25	4.04	3.91
8 DIN 45326	0322 08-1	121-2142●	6.05	5.24	4.54
12	0322 12	121-2143●	6.58	6.25	6.05

No of Ways	Mfrs. List No.	Order Code	1+	Price Each 10+	50+
Socket Front mounted					
3	0304 03	121-2127●	2.36	2.24	2.17
4	0304 04	119-6462●	2.45	2.34	2.26
7 DIN 45329	0304 07-1	119-6463●	3.63	3.15	2.91
12	0304 12	119-6468●	4.91	4.68	4.52
Plug, Front mounting					
3	0314 03	117-7880●	2.09	1.99	1.92
Plug Rear/side mounting					
12	0315 12	117-7879●	4.95	4.28	3.72

Miniature Push Pull with Ground Function



MXR



- Single action Push-Pull
- Audible click on latching
- Lightweight
- Integral cable clamp
- Small size
- Solder contacts

Shell Aluminium alloy, Nickel plated
Insulation Black PBT resin (**UL94V-0**)

Male Contacts Brass, Gold plated
Female Contacts Brass, part Gold plated

209287

No. of Ways	Mfrs. List No.	Order Code	1+	Price Each 25+	50+	100+	250+
Free Plug							
8	MXR-8P-8P(71)	107-7731●	14.61	11.74	11.42	11.12	10.83
Chassis Socket							
8	MXR-8RA-8S(71)	107-7732●	10.15	7.51	6.47	5.75	4.69

'R15' Series Threaded Coupling

7 Way + Earth, 10A



Pushing Performance

Plastic or aluminium housings accepting 7 crimp contacts plus earth. The polarised inserts have leading earth protection and fit into either the free or panel housings. Sealed to **IP65**. **CSA** and **SEV** approved. **UL** Recognised

Working current 10A
Working voltage 250V ac/300V dv (Group C)
Test voltage 2000V ac

Contact resistance 3mΩ max.
Temperature range -40°C to +125°C
Housings Grey Thermoplastic Resin or aluminium

Insulation resistance 10¹⁰Ω min.

Contacts Copper Alloy, Silver plated

209089

'R15' Series Plastic Housings



Pushing Performance



Free housing with socket insert and cable seal
L=70, Dia=28

Panel housing with pin insert and locknut
D(front panel)=36, L=28,
Panel thickness=2 max
Panel cut-out=21
Thread=Pg13.5

Right angle panel housing and locknut
D(front panel)=35, L=51,
Panel thickness=3 max
Panel cut-out=21
Thread=Pg13.5

FOR SUITABLE CONTACTS AND TOOLING SEE WEBSITE

219702

	Mfrs. List No.	Order Code	1+	Price Each 10+	50+	100+
Housings						
Free	0915 000 0401	462-408●	6.57	6.14	5.62	4.85
Panel	0915 000 0101	462-410●	5.17	4.85	4.39	3.81
Right angle						
Panel	0915 000 0102	462-421●	8.72	8.13	7.41	6.41
Bulkhead	0915 000 0301	462-433●	9.21	8.61	7.83	6.77
Inserts						
Pin	0915 007 3001	462-445●	3.16	2.94	2.69	2.31
Socket	0915 007 3101	462-457●	3.67	3.41	3.11	2.71
Cable Seal	0900 000 5164	151-865●	0.71	0.67	0.59	0.53
Sealing Cap	0915 000 5401	462-469●	5.78	5.34	4.91	4.21



Circular Multipole - continued

'R15' Series Metal Housings



Pushing Performance



Free housing with socket
insert and cable seal
L=71, Dia=28

Panel housing and locknut
D(front panel)=36, L=42,
Panel thickness=4 max
Panel cut-out=21
Thread=Pg13.5

Right angle panel housing
with pin insert and locknut
D(front panel)=35, L=51,
Panel thickness=6 max
Panel cut-out=21
Thread=Pg13.5

209091

	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
Housings							
Free	0915 000 0421	462-470	18.98	17.67	16.14	13.94	13.11
Panel	0915 000 0121	462-482	12.22	11.38	10.62	9.52	8.63
Right angle							
Inserts							
Pin	0915 007 3021	462-500	6.45	6.02	5.47	4.75	4.42
Socket	0915 007 3121	462-512	6.79	6.35	5.79	5.01	4.70

Contacts for 'R15' Series



Pushing Performance



Wire size=0.75-1.00mm², 18AWG
Wire dia=1.45
Strip length=8

Pin contact

Socket contact

Turned contacts manufactured in copper alloy with hard silver plating.

209092

10 per pack	Mfrs. List No.	Order Code	1+	25+	50+	100+
Pin	0915 000 6102	151-853	5.21	4.99	4.89	4.58
Socket	0915 000 6202	151-854	5.26	5.04	4.94	4.62

Tooling for 'R15' Series



Pushing Performance



209093

	Mfrs. List No.	Order Code	Price Each
Crimp Tool	0999 000 0110	728-380	268.28
Locator	0999 000 0111	151-856	5.73
Insertion Tool	0999 000 0059	151-857	7.35
Extraction Tool	0999 000 0052	151-858	5.37

FREE technical support

Our trained engineers are here to help!



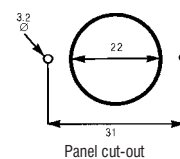
08447 11 11 22



techsales@farnell.co.uk

Live technical chat at
www.farnell.co.uk'CA' Series Screwlocking 3, 6 Way + Earth
10/16A-IP67

- Plastic screwlocking, suitable for process control and industrial application
- Sealed to IP67
- Approvals, DIN, VDE, SEV and UL Recognised



Contact Rating 16A @ 400Vac/450V dc
16A @ 250Vac/300V dc

Contact Resistance 3mΩ
3mΩ

Temperature range -40°C to +90°C

Housing Glass-fibre reinforced Polyamide, UL94V-1

Contact Bearer Glass-fibre reinforced Polyamide, UL94V-1

Contacts Copper Alloy, Silver Plated

Protection IP67 (DIN 40 050)

Wire conductor size 1.5mm²/ AWG0.75mm²/ AWG

Cable Glands PG9 (Cable=6-8mm max)

Terminations Screw (3 Ways)

Solder (6 Ways)

(3 way)
(6 way)
(3 way)3
(6 way)

(3 Way)
(6 Way)

209100

	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
Free Plug							
3 +Earth	CA3LS	361-1851	5.56	5.09	4.86	4.65	4.46
6 +Earth	CA6LS	361-1899	5.37	4.89	4.68	4.49	4.19
Free Socket							
3 +Earth	CA3LD	361-1863	6.30	5.76	5.50	5.27	5.05
6 +Earth	CA6LD	361-1905	7.51	6.85	6.54	6.23	5.95
Panel Plug							
3 +Earth	CA3GS	494-665	3.22	2.94	2.82	2.65	2.53
6 +Earth	CA6GS	494-677	2.90	2.66	2.54	2.39	2.21
Panel Socket							
3 +Earth	CA3GD	494-689	3.57	3.26	3.05	2.93	2.84
6 +Earth	CA6GD	494-690	5.42	4.95	4.74	4.46	4.12
Protective Cap							
Cover for panel plug	CA00SD2	494-707	2.81	2.56	2.34	1.99	1.82
Cover for panel socket	CA00SD4	494-719	2.81	2.56	2.34	1.99	1.82

ecomate™ IP67 Circular Connectors

Plugs and Sockets



- IP67 protection when mated
- Quick and easy assembly
- Pre-loaded ground contact
- Compatible and interchangeable with C16-1 series
- Ergonomically designed product range for safe handling under harsh working conditions
- Strain relief and mounted gasket all in one component
- Approvals: UL, CSA, VDE, SEV

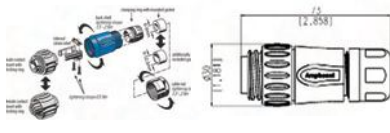
The ecomate™ connectors are an enhancement of the C16-1 Series offering 100% compatibility. The interlocking-parts are ergonomically shaped and are dirt resistant enabling mating and unmating under extreme environmental conditions. The cable-housing is fitted with robust metric trapezoidal thread (to DIN) which not only creates higher pull off forces for the cable clamp but also promotes quicker assembly times. An innovative cable clamp, which has been equipped with long flexible fins allows the use of cable between 6 and 12.5mm in diameter. The ecomate™ receptacle has been made with a circular flange design as well as a fastener allowing a protective cap to be fitted. The ecomate™ product range comprises of male and female receptacles, male and female cable connectors both in straight and right angled versions. Contact layouts are 3+PE and 6+PE with screw, solder and crimp termination.

No. of Ways	3+PE Screw Term.	6+PE Solder Term.	6+PE Crimp Term.
Rated Insulation Voltage	400V	250V	250V
Withstand Voltage	6000V	4000V	4000V
Current Rating	16A	10A	13A
Insulation Resistance	10MΩ	10MΩ	10MΩ
Contact Resistance	5mΩ	5mΩ	5mΩ
Operating Temperature	-40 to +100°C	-40 to +125°C	-40 to +125°C
IP Rating	IP67	IP67	IP67
Mating & Unmating Force	15N	30N	30N
Mating Cycles	500	500	500
Housing Material	Polyamide 6.6 / PA6	Polyamide 6.6 / PA6	Polyamide 6.6 / PA6
Contact Plating	Silver / Gold	Silver / Gold	Silver / Gold
Wire Size, Max	2.5mm ² , 14AWG	0.75, 20AWG	0.14 - 1.5mm ² , 26 - 16AWG
Flammability	UL94V-0	UL94V-0	UL94V-0

435493

Free Plug, 3 & 6 Way + Earth

Amphenol



Strain Relief with Clamping Ring

435520

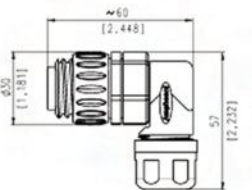
No. of Ways	Mfrs. List No.	Order Code	1+	10+	25+	50+
Solder Termination - Silver Plated Contacts						
6+E	C016 30H006 100 10	118-8939●	5.16	4.88	4.66	4.48
Solder Termination - Gold Plated Contacts						
6+E	C016 30H006 200 10	118-8949●	6.91	6.52	6.24	5.97
Crimp Termination - Contacts sold separately						
6+E	C016 10H006 000 10	118-8953●	3.78	3.57	3.42	3.26
Screw Termination - Silver Plated Contacts						
3+E	C016 20H003 100 10	118-8972●	5.60	5.26	5.03	4.81
Screw Termination - Gold Plated Contacts						
3+E	C016 20H003 200 10	118-8974●	7.58	7.12	6.80	6.58

Internal Strain Relief and Clamping Ring

No. of Ways	Mfrs. List No.	Order Code	1+	10+	25+	50+
Solder Termination - Silver Plated Contacts						
6+E	C016 30H006 110 10	118-8948●	5.61	5.27	5.07	4.88
Solder Termination - Gold Plated Contacts						
6+E	C016 30H006 210 10	118-8950●	6.07	5.70	5.04	4.81
Crimp Termination - Contacts sold separately						
6+E	C016 10H006 010 10	118-8954●	4.07	3.84	3.67	3.52
Screw Termination - Silver Plated Contacts						
3+E	C016 20H003 110 10	118-8973●	6.07	5.68	5.46	5.22
Screw Termination - Gold Plated Contacts						
3+E	C016 20H003 210 10	118-8976●	7.90	7.39	7.09	6.76

90° Free Plug, 3 & 6 Way + Earth

Amphenol



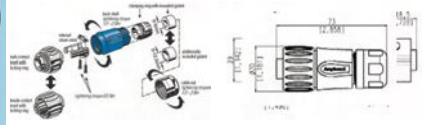
Strain Relief with Clamping Ring

435547

No. of Ways	Mfrs. List No.	Order Code	1+	10+	25+	50+
Solder Termination - Silver Plated Contacts						
6+E	C016 30H006 210 10	118-8952●	7.01	6.60	6.31	6.05
Crimp Termination - Contacts sold separately						
6+E	C016 30H006 210 10	118-8955●	5.78	5.44	5.21	5.00
Screw Termination - Silver Plated Contacts						
3+E	C016 20K003 100 10	118-8977●	7.33	6.92	6.61	6.31

Free Socket, 3 & 6 Way + Earth

Amphenol



Strain Relief with Clamping Ring

435705

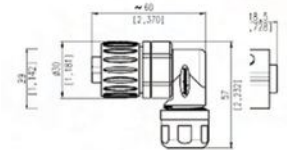
No. of Ways	Mfrs. List No.	Order Code	1+	10+	25+	50+
Solder Termination - Silver Plated Contacts						
6+E	C016 30D006 100 10	118-8956●	5.20	4.90	4.67	4.47
Solder Termination - Gold Plated Contacts						
6+E	C016 30D006 200 10	118-8958●	7.25	6.83	6.52	6.22
Crimp Termination - Contacts sold separately						
6+E	C016 10D006 000 10	118-8961●	3.54	3.34	3.19	3.07
Screw Termination - Silver Plated Contacts						
3+E	C016 20D003 100 10	118-8979●	6.31	5.95	5.68	5.44
Screw Termination - Gold Plated Contacts						
3+E	C016 20D003 200 10	118-8981●	7.99	7.53	7.19	6.87

Internal Strain Relief and Clamping Ring

No. of Ways	Mfrs. List No.	Order Code	1+	10+	25+	50+
Solder Termination - Silver Plated Contacts						
6+E	C016 30D006 110 10	118-8957●	5.64	5.31	5.10	4.89
Solder Termination - Gold Plated Contacts						
6+E	C016 30D006 210 10	118-8959●	7.66	7.20	6.90	6.58
Crimp Termination - Contacts sold separately						
6+E	C016 10D006 010 10	118-8962●	4.19	3.95	3.77	3.62
Screw Termination - Silver Plated Contacts						
3+E	C016 20D003 110 10	118-8980●	6.54	6.15	5.88	5.62
Screw Termination - Gold Plated Contacts						
3+E	C016 20D003 210 10	118-8982●	8.59	8.09	7.74	7.39

90° Free Socket, 3 & 6 Way + Earth

Amphenol



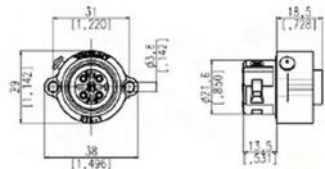
Strain Relief with Clamping Ring

435709

No. of Ways	Mfrs. List No.	Order Code	1+	10+	25+	50+
Solder Termination - Silver Plated Contacts						
6+E	C016 30F006 100 10	118-8960●	6.93	6.52	6.23	5.97
Crimp Termination - Contacts sold Separately						
6+E	C016 10F006 000 10	118-8964●	4.53	4.26	4.09	3.92
Screw Termination - Silver Plated Contacts						
3+E	C016 20F003 100 10	118-8983●	7.48	7.05	6.74	6.45

Panel Plug, 3 & 6 Way + Earth

Amphenol



435695

No. of Ways	Mfrs. List No.	Order Code	1+	10+	25+	50+
Solder Termination - Silver Plated Contacts						
6+E	C016 30C006 100 12	118-8965●	3.54	3.34	3.19	3.07
Solder Termination - Gold Plated Contacts						
6+E	C016 30C006 200 12	118-8966●	4.89	4.49	4.32	4.14
Crimp Termination - Contacts sold separately						
6+E	C016 10C006 000 12	118-8967●	2.49	2.35	2.24	2.15
Screw Termination - Silver Plated Contacts						
3+E	C016 20C003 100 12	118-8984●	3.98	3.75	3.59	3.46
Screw Termination - Gold Plated Contacts						
3+E	C016 20C003 200 12	118-8985●	5.25	5.18	5.08	4.89

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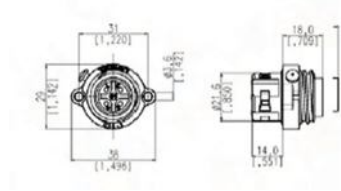
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Circular Multipole - continued

Panel Socket, 3 & 6 Way + Earth

Amphenol



435712

No. of Ways	Mfrs. List No.	Order Code	1+	10+	25+	50+
Solder Termination - Silver Plated Contacts						
6+E	C016 30G006 100 12	118-8969●	3.84	3.61	3.47	3.34
Solder Termination - Gold Plated Contacts						
6+E	C016 30G006 200 12	118-8970●	5.66	5.36	5.11	4.97
Crimp Termination - Contacts sold separately						
6+E	C016 10G006 000 12	118-8971●	2.28	2.15	2.06	1.98
Screw Termination - Silver Plated Contacts						
3+E	C016 20G003 100 12	118-8986●	4.87	4.58	4.39	4.20
Screw Termination - Gold Plated Contacts						
3+E	C016 20G003 200 12	118-8988●	5.36	5.28	5.19	4.99

ecomate™
Coloured Bodies

- Please note, the order codes apply to the bodies only. Not the complete connector as shown in the image.

Mfrs. List No.
 C016G11043E10V = 152-0089
 C016G11046E10V = 152-0091
 C016G11045E10V = 152-0092
 C016G11042E10V = 152-0093
 C016G11000E10V = 152-0094

495411

Colour	Order Code	1+	5+	10+	50+	100+
Red	152-0089●	3.93	3.68	3.53	3.41	3.27
Yellow	152-0091●	3.93	3.68	3.53	3.41	3.27
Green	152-0092●	3.93	3.68	3.53	3.41	3.27
Blue	152-0093●	3.93	3.68	3.53	3.41	3.27
Mixed	152-0094●	3.93	3.68	3.53	3.41	3.27

14

Accessories
Protective Caps

Amphenol

	Mfrs. List No.	Order Code	1+	10+	25+	50+
Panel plug	C016 00U000 000 12	122-8715●	3.87	3.62	3.46	3.27
Panel socket	C016 00V000 000 12	122-8718●	2.59	2.43	2.32	2.19
Free plug	C016 00U000 010 12	122-8714●	3.76	3.53	3.37	3.18
Free socket	C016 00V000 010 12	122-8716●	3.76	3.53	3.37	3.18

Contacts

435716

Contact Dia.	Wire mm ²	Order Code	1+	10+
Pin Contacts - Silver Plated				
1.6	0.14-0.5	112-3499●	3.34	3.19
1.6	0.5-1.5	112-3501●	5.09	4.87
Socket Contacts - Silver Plated				
1.6	0.14-0.5	112-3500●	4.15	3.96
1.6	0.5-1.5	112-3502●	4.14	3.96
Tooling				
Crimp Tool		379-1002		173.93
Einsetzwerkz.		379-0988		21.68

'C16-1' Plastic screwlocking 3,6 Way + Earth
10/16A-IP67

Amphenol



- Ideal for power and signal application
- Threaded coupling
- High grade plastic housing
- Approvals, VDE, SEV, CL, GL, CSA & UL Recognised

Contact Rating	10A @ 250Vac/300Vdc (45°C)	(3 Way)	Contacts	Copper Alloy, Silver Plated
Contact Resistance	≤mΩ	(6 Way)	Protection	IP67 (DIN 40050)
Insulation Resistance	≥ 10 ¹⁰ MΩ		Wire Size	0.75mm ² (3 Way) 0.75mm ² (6 Way)
Temperature range	-40°C to +100°C		Cable Gland	PG9 (Cable=9.5mm max)
Housing Dielectric	Polyamide 6.6	UL94V-0	Terminations	Solder (3 Way) Solder (6 Way)

209218

Free Socket	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
6 + Earth	T3105-001	112-3559●	8.58	7.98	7.64	7.22	6.76
Panel Plug							
3 + Earth	T3110-000	112-3560●	5.22	4.81	4.60	4.41	4.21
6 + Earth	T3106-000	112-3561●	6.34	5.86	5.58	4.55	4.29
Panel Socket							
6 + Earth	T3107-000	112-3562●	6.34	5.86	5.51	4.70	4.43
Protective Cap							
Panel plug	T6482-000	112-3563●	3.77	3.55	3.41	3.26	3.12
Panel socket	T6843-000	964-384	3.89	3.65	3.23	2.67	2.42

C16-3 Series Plastic Circular

Amphenol



- Robust, lightweight plastic circular connectors
- Bayonet locking
- Supplied with strain relief and PG cable for conduit fixing
- Sealed to IP65
- Pre-leading earth contact (PE)
- Suitable for use where power and control is required through one connection
- Applications include machine tools, measurement and control, process technology, medical equipment
- VDE and CSA approved, UL Recognised

Contact plating Silver
 Mating cycles >500
 Operating temperature -40°C to 125°C
 Protection IP65
 Housing Polyamide 6.6

	Shell Size 1			
	8 + PE	14 + PE	17 + PE	
Current rating	12A	11 x 6A, 4 x 18A	12A	
Voltage rating	400V	400V	400V	
Termination	Crimp	Crimp	Crimp	
Contact diameter	1.6	1.5 & 2.5	1.5	
Conductor size (mm²)	0.14 -1.5	0.5 -1.5	0.14 -1.0	
	Shell Size 2			
	5 + PE	12 + PE	14 + PE	19 + PE
Current rating	21A	12A	12A	12A
Voltage rating	400V	400V	400V	400V
Termination	Screw	Crimp	Crimp	Crimp
Contact diameter	n/a	1.6 & 2.5	1.5 & 1.6	1.5
Conductor size (mm²)	4 max.	0.14 -2.5	0.5 -1.5	0.14 -1.0
Mfrs. List No.	C016 10C019 0002=112-3477	C016 00V000 0002=112-3495		
C016 10I014 0021=112-3456	C016 10G008 0001=112-3479	TA 0100 146=379-1002		
C016 10I017 0021=112-3459	C016 10G014 0001=112-3480	FG 0300 146 1=379-0988		
C016 20I005 1032=112-3461	C016 10G017 0001=112-3481	FG 0200 146 1=379-0976		
C016 10E008 0021=112-3463	C016 20G005 1002=112-3482	VN01 015 0046 1=112-3497		
C016 10E014 0021=112-3465	C016 10G012 0002=112-3483	VN01 016 0003 1=112-3499		
C016 10E017 0021=112-3466	C016 00U000 0001=112-3484	VN02 016 0003 1=112-3500		
C016 20E005 1032=112-3467	C016 00U000 0102=112-3485	VN01 016 0002 1=112-3501		
C016 10E012 0032=112-3468	C016 00V000 0001=112-3487	VN02-015-0046(1)=991-2525		
C016 10C008 0001=112-3472	C016 00U000 0201=112-3489	VN02 016 0002 1=112-3502		
C016 10C017 0001=112-3474	C016 00U000 0002=112-3492	VN01 025 0001 101=112-3503		
C016 20C005 1002=112-3475	C016 00V000 0201=112-3493	VN02 025 0001 101=112-3504		

No. of Ways	Shell Size	Order Code	1+	25+	50+	100+
Free Plug						
8+1	1	112-3455●	9.75	8.99	7.79	7.32
14+1	1	112-3456●	8.21	7.64	7.32	7.03
17+1	1	112-3459●	9.04	8.33	7.98	7.63
5+1	2	112-3461●	11.78	10.85	10.38	9.91
Free Socket						
8+1	1	112-3463●	12.08	11.12	9.63	9.08
14+1	1	112-3465●	9.32	8.69	8.31	7.96
17+1	1	112-3466●	9.91	9.14	8.74	8.36
5+1	2	112-3467●	18.54	16.89	16.15	15.43
12+1	2	112-3468●	9.25	8.51	8.14	7.78
Panel Plug						
8+1	1	112-3472●	4.84	4.47	4.16	3.95
5+1	2	112-3475●	9.40	8.66	8.29	7.95
Panel Socket						
8+1	1	112-3479●	6.38	5.87	5.27	4.96
14+1	1	112-3480●	4.11	3.79	3.63	3.49
17+1	1	112-3481●	4.57	4.22	4.04	3.86
5+1	2	112-3482●	12.95	11.92	11.42	10.92
12+1	2	112-3483●	6.02	5.56	5.31	5.09
Protective Cap						

231448

No. of Ways	Shell Size	Order Code	1+	25+	50+	100+
Free Plug						
1		112-3484●	3.72	3.43	3.27	3.12
2		112-3485●	5.70	5.26	5.02	4.79
Free Socket						
1		112-3487●	4.14	3.77	3.26	3.08
Panel Plug						
1		112-3489●	3.47	3.18	2.75	2.59
2		112-3492●	4.47	4.10	3.54	3.35
Panel Socket						
1		112-3493●	4.29	3.98	3.79	3.63
2		112-3495●	4.61	4.20	3.63	3.45
Tooling						
Ratchet Crimp Tool						
		379-1002	173.93	--	--	--
Insertion/Extraction Tools						
Contact Dia.						
1.6		379-0988	21.68	--	--	--
2.5		379-0976	55.10	--	--	--

Contact Dia.	Wire mm ²	Order Code	Price Per Pack of 10
			1+ 10+
Pin Contacts			
1.5	0.14-0.5	112-3497●	3.53 3.38
1.6	0.14-0.5	112-3499●	3.34 3.19
2.5	0.5-1.5	112-3503●	4.10 3.91
1.6	0.5-1.5	112-3501●	5.09 4.87
Socket Contacts			
1.5	0.14-0.5	991-2525●	3.42 3.28
1.6	0.14-0.5	112-3502●	4.14 3.96
1.6	0.5-1.5	112-3500●	4.15 3.96
2.5	0.5-1.5	112-3504●	3.28 3.12

Industrial Micro Connector



Crimp 2 to 12 way

- A cost effective micro connector range
- For use in harsh environment
- 2 Shell sizes, 3 contact sizes
- Positive twist lock, bayonet type
- Sealing **IP67**
- Approval **UL Recognised, CSA** and **VDE** pending

Contact rating	See contact specs	Temperature range	-55°C to +175°C
Operating voltage	750-1000Vrms	Housing	Ultram 10UL94V-0
Insulation resistance	1000MΩmin		

209190

Series 100



1019258 Adaptor L=37.46, W=16.76
 1019233 Flange receptacle L=19, Dia=15.25
 1019227 Inline plug L=19, Dia=15.25
 1019230 Inline receptacle L=19, Dia=15.25

- Contact size 20 (2 & 3 way), 22 (4 way)

219729

No. of Ways	Mfrs. List No.	Order Code	1+	25+	100+	250+
Inline Plug						
2	IMC16-2002X	101-9226●	3.51	3.26	3.13	2.95
3	IMC16-2003X	101-9227●	3.61	3.37	3.22	2.95
4	IMC16-2204X	101-9228●	3.51	3.26	3.13	2.95
Inline Receptacle						
2	IMC11-2002X	101-9229●	2.95	2.75	2.65	2.47
3	IMC11-2003X	101-9230●	2.93	2.72	2.63	2.47
4	IMC11-2204X	101-9231●	2.64	2.45	2.37	2.22
Flange Receptacle						
2	IMC14-2002X-961D	101-9232●	3.43	3.29	2.75	2.39
3	IMC14-2003X	101-9233●	3.58	3.36	3.20	2.91
4	IMC14-2204X	101-9234●	3.48	3.24	3.12	2.91
Accessories						
Boot, PVC						
5.08mm	6810-204-1001-1-200	101-9254●	1.00	0.93	0.89	0.85
Pro-cap, plug	IMC 18	101-9255●	0.86	0.82	0.67	0.61
Pro-cap, recep.	IMC 19	101-9256●	1.05	1.00	0.83	0.76
Adaptor	IMC 1AD	101-9258●	2.16	2.03	1.95	1.76

Series 200



- Contact size 16 (2 way), 20 (5 & 7 way), 22 (12 way)

219728

No. of Ways	Mfrs. List No.	Order Code	1+	25+	100+	250+
Inline Plug						
2	IMC26-1602X	101-9236●	3.56	3.32	3.19	3.00
5	IMC26-2005X	101-9237●	3.67	3.42	3.27	3.00
7	IMC26-2007X	101-9238●	3.67	3.42	3.27	3.00
12	IMC26-2212X	101-9239●	3.67	3.42	3.27	3.00
Inline Receptacle						
5	IMC21-2005X	101-9240●	2.98	2.77	2.66	2.52
7	IMC21-2007X	101-9241●	2.98	2.77	2.66	2.52
12	IMC21 2212X	101-9242●	3.06	2.85	2.73	2.52
Flange Receptacle						
2	IMC24-1602X	101-9243●	3.54	3.31	3.17	2.98
5	IMC24-2005X	101-9244●	3.65	3.41	3.27	2.98
7	IMC24-2007X	101-9245●	3.54	3.31	3.17	2.98
12	IMC24-2212X	101-9246●	3.54	3.31	3.17	2.98
Accessories						
Boot, PVC						
4.19mm	6810-201-2001-1-165	121-4321●	0.94	0.89	0.84	0.74
6.35mm	6810-201-2001-1-250	121-4320●	0.94	0.89	0.84	0.74
Pro-cap, receptacle	IMC29	101-9257●	0.91	0.85	0.82	0.76
Adaptor	IMC 2AD	101-9261●	2.16	2.03	1.95	1.76

Contacts for 'IMC' Series



- Machined contacts, copper alloy with gold over nickel plating

Socket Contact L=13.36 max
 Pin Contact L=13.64 max

Contact rating	1000 750 Vrms, (size 22) 1000 1000 Vrms, (Size 20) 1000 1000 Vrms (Size 16)	20-24AWG (Size 20) 16-20AWG (Size 16) Material Copper Alloy, Gold over Nickel plating
Wire gauge	20-24AWG (Size 22)	

209181

Order Multiple=10	Mfrs. List No.	Order Code	10+	Price Each	250+
Machined Contacts				100+	
Pin Crimps					
16	6860-201-16278	101-9248●	0.540	0.500	0.470
20	6860-201-20278	101-9249●	0.200	0.191	0.182
22	6860-201-22278	101-9250●	0.380	0.350	0.330
Socket Crimps					
16	6862-201-16278	101-9251●	0.640	0.600	0.580
20	6862-201-20278	101-9252●	0.500	0.460	0.430
22	6862-201-22278	101-9253●	0.550	0.510	0.470

IMC Tooling



209182

Machined Contact Tooling	Mfrs. List No.	Order Code	Price Each
Contact Size			1+
Crimp Tools			
16,20	AF8	890-376	254.02
22	MH860	105-992	346.99



Circular Multipole - continued

IMC Tooling - continued

Positioners			
16, 20	TH163	890-388	89.71
22	86-1S	658-637	64.96
Insertion/Extraction Tools			
16	6757-201-1601	890-340	0.93
20	6757-201-2001	890-352	1.23
22	6757-201-2201	890-364	0.87

Quick Connect



Quick connect series of 2, 7 and 12 way composite connectors are chemical resistant and environmentally sealed to IP68.

- Quick latch mechanism
- Universal mounting
- Standard sealing O-ring
- Constructed with Ultem®, a high temperature resistant composite material
- Ideal for most rigorous applications

Current Rating	2 Way = 13 A 7 Way = 3 and 7 A 12 way = 5 A	Contact Material
Operating Temperature	-55 to 150	Contact Plating
Insulation resistance	>1000MΩ	

Mfrs. List No.	QC26-2212X = 152-0334	QC220-12 = 152-0342
QC24-1602X = 152-0329	QC210N-L = 152-0336	QC28 = 152-0347
QC24-2007X = 152-0330	QC205P = 152-0338	0413-204-2005 = 152-0348
QC24-2212X = 152-0331	QC-DM02 = 152-0339	600300-22 = 152-0351
QC26-1602X = 152-0332	QC220-02 = 152-0340	QC38 = 152-0352
QC26-2007X = 152-0333	QC220-07 = 152-0341	QC39 = 152-0353

Uses IMC Series contacts

495591

Description	Order Code	Price Each			
		1+	10+	50+	100+
Receptacles					
2 Way Receptacle	152-0329●	3.420	3.110	2.950	2.740
7 Way Receptacle	152-0330●	3.420	3.110	2.950	2.740
12 Way Receptacle	152-0331●	3.420	3.110	2.950	2.740
Plugs					
2 Way Plug	152-0332●	1.970	1.820	1.710	1.600
7 Way Plug	152-0333●	1.970	1.820	1.710	1.600
12 Way Plug	152-0334●	1.970	1.820	1.710	1.600
Backshell	152-0336●	1.640	1.500	1.400	1.300
Panel nut and Washer	152-0338●	0.420	0.400	0.380	0.360
Flange Mount Kit	152-0339●	2.340	2.170	2.070	1.970
Wire Seal					
2 Way Wire Seal	152-0340●	0.560	0.540	0.520	0.500
7 Way Wire Seal	152-0341●	0.560	0.540	0.520	0.500
12 Way Wire Seal	152-0342●	0.560	0.540	0.520	0.500
7 Way Wire Seal Filler Plug	152-0348●	0.062	0.058	—	—
12 Way Wire Seal Filler Plug	152-0351●	0.145	0.135	—	—
Pro-cap					
Pro-cap for Plugs - Low Cost	152-0347●	0.840	0.780	0.740	0.700
Pro-cap for Plug with Lanyard	152-0352●	3.940	3.830	3.730	3.620
Pro-cap for Receptacle with Lanyard	152-0353●	3.110	3.000	2.900	2.690

XRC™ Extra Rugged Circular Sealed Plugs and Receptacles



The XRC 14-circuit, circular connector was developed to meet the demanding requirements of the heavy equipment industry. With a standard 18 size shell, this rugged, circular connector is ideal for heavy-duty applications such as trucks, buses and agricultural markets. For maximum design flexibility, the XRC plugs and receptacles are available in standard and reverse gender.

Key Features:-

- Environmentally sealed to IP67 standard and protects against the ingress of dust, water and other contaminants to maintain the integrity of the mated pair
- Standard and reverse terminal genders allow for custom polarization
- Bayonet-style latch provides quick and easy connections for reduced installation and service time as well as ensures proper depth when mated
- Seal retainer lip is compatible with backshell and overmolding applications
- Tactile and audible mating feedback facilitates reliable mating
- Visual markings on outer shell allow for visual alignment to facilitate easier mating
- Simple crimp-and-poke technology does not require terminal alignment when installing crimped wires

Housing Material	Contact Material	Contact Plating	No. of Mating Cycles	Withstanding Voltage	Operating Temperature
Glass Filled PBT	Copper Alloy	Nickel	100	1600VAC	-55°C to 125°C

526746

molex

New

Mfrs. List No.	Insert	Order Code	Price Each		
			1+	10+	50+
Plugs					
84501-0001	Pin	167-4372●	8.280	7.730	6.690
84507-0012	Socket	167-4373●	8.280	7.730	6.690
Receptacles					
84502-0008	Pin	167-4374●	7.980	7.450	6.450
84508-0001	Socket	167-4375●	7.980	7.450	6.450
Accessories					
Panel Mount Hex Nut for Receptacles					
Mfrs. List No.	Shell Size		1+	10+	50+
84502-0004	18	167-4376●	0.690	0.600	0.570
Cavity Plug, white					
Mfrs. List No.	Contact Size		1+	10+	50+
84509-0002	12 & 16	167-4378●	0.133	0.122	0.112
Contacts, Pin					
Mfrs. List No.	AWG	Length	10+	100+	500+
84590-0022	14-18	21.79mm	0.112	0.102	0.092
84590-0020	16-18	21.79mm	0.112	0.102	0.092
84590-0032	14-18	23.27mm	0.112	0.102	0.092
Contacts, Socket					
Mfrs. List No.	AWG	Length	10+	100+	500+
84590-0023	14-18	20.22mm	0.194	0.184	0.163
84590-0025	16-18	20.22mm	0.194	0.184	0.163
84590-0034	14-18	21.49mm	0.194	0.184	0.163
Crimp Tools					
Mfrs. List No.	AWG	For Use With	1+		
63811-5500	16-18	167-4381, 167-4382	178.320		
63811-5600	14-18	167-4379, 167-4380	178.320		
63811-5700	14-18	167-4383, 167-4384	178.320		
Extraction Tool					
Mfrs. List No.	For Use With		1+		
63813-1900	Contact Pins and Sockets	167-4391	3.060		

400 Series Micro Buccaneer IP68 Sealed Connectors

BULGIN

The 400 series is designed to provide a compact secure connection where a high level of environmental sealing is required. Water and dust proof to IP68 the connector measures just over 19mm over the coupling ring and is ideal for applications that require mains or signal transmission where space is at a premium, such as navigation and radar equipment, test equipment, data communications equipment, telemetry equipment robotics and metering equipment.

- Flex, Flex in-line chassis and PCB body styles
- Pin and socket contacts in all body styles
- Gold plated crimp and solder contacts 2 to 12 poles
- Ratings from 8A, 250V to 1A, 50V
- 2.5mm contact engagement for electrical integrity
- Scoop proof contacts
- Cable sealing range from 3.0mm to 7.0mm
- Alternative cable glands to match cable size
- Contacts ordered separately
- Sealing caps to maintain IP68 when not in use
- CSA, and VDE approved, UL Recognised

Specification

Electrical	
Poles	2, 3, 4, 6, 8, 10, 12
Ratings	
2, 3 Poles	8A, 250V
4, 6, 8 Poles	5A, 125V
10, 12 Poles	1A, 50V
Contact Resistance	>5mohm
Insulation Resistance	>10 ⁹ MΩ (@500V a.c.)
Operating Temp. Range	-40°C to +80°C
Approvals	UL, CSA, VDE (pending)

Material

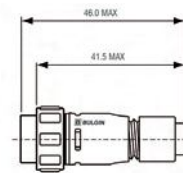
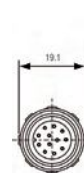
Body Mouldings	Polyamide
Flammability Rating	UL94V-0
Contacts	Copper alloy, Gold plated
O Rings	Nitrile
Chassis Sealing O Ring	Nitrile

Mechanical	
Cable Acceptance	3.0-7.0mm (with gland pack)
Ratings	
Contact Accommodation	2, 3 Poles, 20 - 24AWG 4, 6, 8 Poles, 22 - 26AWG 10, 12 Poles, 24 - 28AWG
Termination	Crimp, solder and PCB

231710/406560

400 Series Micro Buccaneer Cable Connector

BULGIN



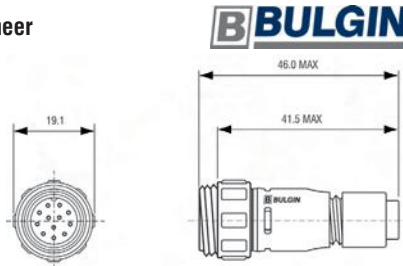
- Mates with flex in-line or chassis mounting versions (PX0411, PX0412 and PX0413)
- Contacts supplied separately

No. Ways	Current Rating (A)	Cable OD	No. Ways	Current Rating (A)	Cable OD
2	8	5.5mm to 6.0mm	8	5	6.0mm to 6.5mm
3	8	5.5mm to 6.0mm	10	1	6.0mm to 6.5mm
4	5	4.5mm to 5.0mm	12	1	6.0mm to 6.5mm
6	5	4.5mm to 5.0mm			

231711

No. of Ways	Mfrs. List No.	Order Code	1+	25+	50+	100+	250+
Cable Plugs							
2	PX0410/02P/5560	384-0918●	3.00	2.77	2.66	2.51	2.38
3	PX0410/03P/5560	384-0920●	2.97	2.73	2.63	2.49	2.36
4	PX0410/04P/4550	384-0931●	2.97	2.73	2.63	2.49	2.36
6	PX0410/06P/4550	384-0943●	2.97	2.74	2.63	2.49	2.37
8	PX0410/08P/6065	384-0955●	2.97	2.73	2.63	2.49	2.36
10	PX0410/10P/6065	384-0967●	2.97	2.74	2.63	2.49	2.37
12	PX0410/12P/6065	384-0979●	2.97	2.73	2.63	2.49	2.36
Cable Sockets							
2	PX0410/02S/5560	384-0840●	2.96	2.72	2.61	2.46	2.35
3	PX0410/03S/5560	384-0852●	2.97	2.73	2.63	2.49	2.36
4	PX0410/04S/4550	384-0864●	2.97	2.73	2.63	2.49	2.36
6	PX0410/06S/4550	384-0876●	2.97	2.74	2.63	2.49	2.37
8	PX0410/08S/6065	384-0888●	2.97	2.73	2.63	2.49	2.36
10	PX0410/10S/6065	384-0890●	2.97	2.74	2.63	2.49	2.37
12	PX0410/12S/6065	384-0906●	3.11	2.87	2.76	2.60	2.46

400 Series Micro Buccaneer In-Line Cable Connector



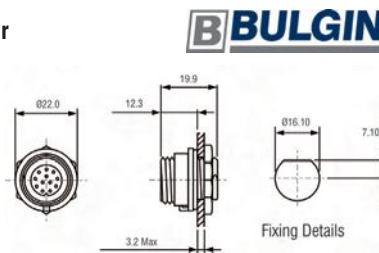
- Mates with PX0410
- Contacts supplied separately

No. Ways	Current Rating (A)	Cable OD	No. Ways	Current Rating (A)	Cable OD
2	8	5.5mm to 6.0mm	8	5	6.0mm to 6.5mm
3	8	5.5mm to 6.0mm	10	1	6.0mm to 6.5mm
4	5	4.5mm to 5.0mm	12	1	6.0mm to 6.5mm
6	5	4.5mm to 5.0mm			

231712

No. Ways	Mfrs. List No.	Order Code	1+	25+	50+	100+	250+
In-Line Cable Plugs							
2	PX0411/02P/5560	384-0980●	2.97	2.73	2.63	2.49	2.36
3	PX0411/03P/5560	384-0992●	2.97	2.73	2.63	2.49	2.36
4	PX0411/04P/4550	384-1005●	2.97	2.73	2.63	2.49	2.36
6	PX0411/06P/4550	384-1017●	2.97	2.74	2.63	2.49	2.37
8	PX0411/08P/6065	384-1029●	2.82	2.59	2.50	2.37	2.24
10	PX0411/10P/6065	384-1030●	2.97	2.74	2.63	2.49	2.37
12	PX0411/12P/6065	384-1042●	2.97	2.73	2.63	2.49	2.36
In-Line Cable Sockets							
2	PX0411/02S/5560	384-1054●	2.97	2.73	2.63	2.49	2.36
3	PX0411/03S/5560	384-1066●	2.97	2.73	2.63	2.49	2.36
4	PX0411/04S/4550	384-1078●	2.97	2.73	2.63	2.49	2.36
6	PX0411/06S/4550	384-1080●	2.97	2.74	2.63	2.49	2.37
8	PX0411/08S/6065	384-1091●	2.97	2.73	2.63	2.49	2.36
10	PX0411/10S/6065	384-1108●	2.97	2.74	2.63	2.49	2.37
12	PX0411/12S/6065	384-1110●	3.11	2.87	2.76	2.60	2.46

400 Series Micro Buccaneer Front Panel Mount



- Mates with PX0410
- Contacts supplied separately

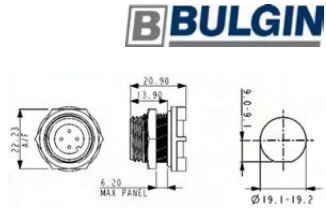
231727

No. Ways	Current Rating (A)	Mfrs. List No.	Order Code	1+	25+	50+	100+	250+
Chassis Mounting Plugs								
2	8	PX0412/02P	384-1121●	2.58	2.37	2.27	2.15	2.04
3	8	PX0412/03P	384-1133●	2.65	2.45	2.35	2.22	2.10
4	5	PX0412/04P	384-1145●	2.58	2.37	2.27	2.15	2.04
6	5	PX0412/06P	384-1157●	2.65	2.45	2.35	2.22	2.11
8	5	PX0412/08P	384-1169●	2.70	2.49	2.39	2.25	2.14
10	1	PX0412/10P	384-1170●	2.65	2.45	2.35	2.22	2.11
12	1	PX0412/12P	384-1182●	2.70	2.49	2.39	2.25	2.14
Chassis Mounting Sockets								
2	8	PX0412/02S	384-1194●	2.58	2.37	2.27	2.15	2.04
3	8	PX0412/03S	384-1200●	2.58	2.37	2.27	2.15	2.04
4	5	PX0412/04S	384-1212●	2.70	2.49	2.39	2.25	2.14
6	5	PX0412/06S	384-1224●	2.65	2.45	2.35	2.22	2.11
8	5	PX0412/08S	384-1236●	2.70	2.49	2.39	2.25	2.14
10	1	PX0412/10S	384-1248●	2.65	2.45	2.35	2.22	2.11
12	1	PX0412/12S	384-1250●	2.70	2.49	2.39	2.25	2.14

Over 480,000 products online



400 Series Micro Buccaneer Rear Panel Mount



- Mates with PX0410
- Contacts supplied separately

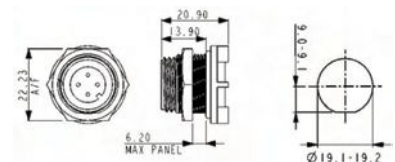
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No. Ways	Current Rating (A)	Mfrs. List No.	Order Code	1+	25+	50+	100+	250+
Chassis Mounting Plugs								
2	8	PX0413/02P	134-7626●	2.42	2.23	2.13	2.01	1.91
3	8	PX0413/03P	134-7628●	2.42	2.23	2.13	2.01	1.91
4	5	PX0413/04P	134-7629●	2.42	2.23	2.13	2.01	1.91
6	5	PX0413/06P	134-7630●	2.42	2.23	2.13	2.01	1.91
8	5	PX0413/08P	134-7631●	2.42	2.23	2.13	2.01	1.91
10	1	PX0413/10P	134-7632●	2.30	2.12	2.02	1.91	1.82
12	1	PX0413/12P	134-7633●	2.42	2.23	2.13	2.01	1.91
Chassis Mounting Sockets								
2	8	PX0413/02S	134-7634●	2.42	2.23	2.13	2.01	1.91
3	8	PX0413/03S	134-7635●	2.42	2.23	2.13	2.01	1.91
4	5	PX0413/04S	134-7636●	2.42	2.23	2.13	2.01	1.91
6	5	PX0413/06S	134-7637●	2.42	2.23	2.13	2.01	1.91
8	5	PX0413/08S	134-7638●	2.42	2.23	2.13	2.01	1.91
10	1	PX0413/10S	134-7641●	2.42	2.23	2.13	2.01	1.91
12	1	PX0413/12S	134-7642●	2.42	2.23	2.13	2.01	1.91

400 Series Micro Buccaneer Rear PCB Chassis Mount



- Mates with PX0410
- Straight PC spills
- Supplied with contacts



381398/406561

Mfrs. List No.	No. of Ways	Current Rating (A)	Order Code	1+	25+	50+	100+	250+
Plugs								
PX0413/02P/PC	2	8	110-2875●	2.86	2.66	2.55	2.40	2.29
PX0413/03P/PC	3	8	110-2877●	3.47	3.23	3.09	2.91	2.78
PX0413/04P/PC	4	5	840-6588●	4.38	4.03	3.91	3.69	3.47
PX0413/06P/PC	6	5	840-6600●	5.48	5.06	4.90	4.61	4.35
PX0413/08P/PC	8	5	840-6626●	6.65	6.14	5.93	5.60	5.27
PX0413/10P/PC	10	1	110-2879●	7.14	6.64	6.35	6.00	5.71
PX0413/12P/PC	12	1	110-2881●	7.55	7.02	6.72	6.34	6.04
Sockets								
PX0413/02S/PC	2	8	110-2876●	3.10	2.88	2.76	2.60	2.48
PX0413/03S/PC	3	8	110-2878●	3.93	3.65	3.50	3.30	3.14
PX0413/04S/PC	4	5	840-6596●	5.01	4.63	4.48	4.23	3.98
PX0413/06S/PC	6	5	840-6618●	6.24	5.74	5.55	5.25	4.94
PX0413/08S/PC	8	5	840-6634●	7.49	6.90	6.68	6.31	5.93
PX0413/10S/PC	10	1	110-2880●	8.36	7.77	7.44	7.02	6.69
PX0413/12S/PC	12	1	110-2882●	9.59	8.92	8.54	8.06	7.67

400 Series Micro Buccaneer Contacts

- Gold plated contacts
- Supplied in packs of 10

231729

Contacts	AWG	Mfrs. List No.	Order Code	1+	Price per Pack 10+	50+	100+
Crimp Contacts (pk 10)							
8A Socket	20 - 24AWG	SA3349	384-1315●	5.41	5.00	4.76	4.50
8A Pin	20 - 24AWG	SA3350	384-1327●	3.96	3.66	3.50	3.29
5A Socket	22 - 26AWG	SA3347	384-1339●	5.00	4.61	4.40	4.16
5A Pin	22 - 26AWG	SA3348	384-1340●	3.12	2.88	2.75	2.59
1A Socket	24 - 28AWG	SA3179	560-911●	3.79	3.49	3.34	3.15
1A Pin	24 - 28AWG	SA3180	560-900●	2.60	2.41	2.31	2.19
Solder Contacts (pk 10)							
8A Socket	20 - 24AWG	SA3349/1	384-1376●	5.41	5.00	4.76	4.50
8A Pin	20 - 24AWG	SA3350/1	384-1388●	3.96	3.66	3.50	3.29
5A Socket	22 - 26AWG	SA3347/1	384-1390●	5.00	4.61	4.40	4.16
5A Pin	22 - 26AWG	SA3348/1	384-1406●	3.12	2.88	2.75	2.59
1A Socket	24 - 28AWG	SA3179/1	561-290●	3.60	3.33	3.19	2.99
1A Pin	24 - 28AWG	SA3180/1	561-289●	2.41	2.22	2.13	2.01



400 Series Micro Buccaneer

Accessories and Tooling



PX0482
Size
3.0-3.5mm
3.5-4.0mm
4.0-4.5mm
4.5-5.0mm

Colour
Light Grey
Grey
Green
Red



- Sealing caps maintain IP68 rating of un-mated connectors
- Each gland pack contains four colour coded glands:

PX0483
Size
5.0mm -5.5mm
5.5-6.0mm
6.0-6.5mm
6.5-7.0mm

Colour
Yellow
Blue
White
Black

231728/406562

	Mfrs. List No.	Order Code	1+	25+	50+	100+
Sealing Caps						
Sealing cap for PX0410	PX0481	384-1261●	0.78	0.72	0.69	0.64
Sealing cap for PX0411	PX0480/1	384-1273●	0.78	0.72	0.69	0.64
Sealing cap for PX0412	PX0480	384-1285●	0.78	0.72	0.69	0.64
Sealing cap for PX0413	PX0484	840-6642●	0.84	0.78	0.76	0.72
Gland Packs						
Gland pack, 3.0 to 5.0mm O/D	PX0482	384-1297●	0.56	0.52	0.50	0.47
Gland pack, 5.0 to 7.0mm O/D	PX0483	384-1303●	0.56	0.52	0.50	0.47

	Mfrs. List No.	Order Code	Price Each 1+
Contact Insertion Tools			
For 1A contacts, 24-28AWG	13027	384-1431	4.470
For 5A contacts, 22-26AWG	13027/1	384-1443	4.380
For 8A contacts, 20-24AWG	13027/2	384-1455	4.380
Crimp Tooling			
Crimp Tool	14025	384-1492	215.010
Positioner for 1A crimp contacts	14025/1AMP	384-1467	94.514
Positioner for 5A crimp contacts	14025/5AMP	384-1479	34.960
Positioner for 8A crimp contacts	14025/8AMP	384-1480	34.960

'Mini Buccaneer' Threaded Coupling 5A



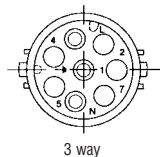
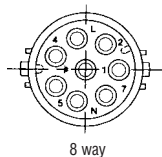
IP68



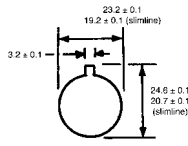
Slimline chassis body with
8 way socket carrier
D (front panel)=23.5,
Dia=26.9 max,

Chassis body with
3 way socket carrier
D (front panel)=23.5,
W=40.5 max.

Right angle chassis body
with 8 way socket carrier
D (front panel)=37.8, L=44.0

3 way
Socket configuration rear view

8 way

Chassis panel cut-out
Panel Thickness=1.5 to 6.0

- Sealed to IP68
- Free body mates with either in-line or chassis bodies
- Gold plated machined contacts, solder bucket termination
- Five bodies which accepts 3 or 8 way pin or socket carriers, snap-fit
- 3 way screw terminals (pre-loaded) insert
- Polarising blanking pin for socket carriers

Note: Always wire socket carrier to power source and pin carrier to load. For correct sealing ensure all surfaces are free from contamination (dust, grease, etc.)

Contact rating: Solder Terminal
3 & 8 way solder / crimp terminal
2 & 3 way screw terminal
4 way screw terminal
6 way screw terminal
Contact resistance
Insulation resistance
Breakdown voltage
Temperature range

5A @ 380V
10A @ 250V
6A @ 250V
3A @ 150V
5mohm max.
10Mohm min.
2000V ac
-20°C to +70°C

Cable Dia 5-7mm
Housing Black nylon/UL94V-0
Contacts: Solder: Copper alloy,
gold on nickel plating
Screw: Brass, nickel plated
Wire size:
Screw 1mm²
Solder 0.2-1mm²

Mfrs. List No.	PX0800=225-770	PX0802=225-794	12734/1=225-824
	PX0801=225-782	PX0803=225-800	12735/3/1=225-836
	PX0805=240-321	12734/3/1=225-812	12735/1=225-848

SA3230=978-073
SA3229=978-061
SA3241=307-3210
SA3242=307-3221

SA3243=307-3233
SA3244=307-3245
PX0811=241-271
PX0810=241-283

SA3150=225-873
SA3148/1=225-885
SA3149/1=225-897
SA3147=225-903

209039

	Order Code	1+	10+	50+	100+	250+	500+
Bodies							
Free	225-770●	2.43	2.24	2.15	2.03	1.89	1.82
In-line	225-782●	2.30	2.12	2.03	1.92	1.78	1.71
Chassis (slimline)	240-321●	2.23	2.07	1.98	1.87	1.74	1.67
Chassis	225-794●	2.13	1.98	1.88	1.78	1.65	1.56
Right angle chassis	225-800●	2.74	2.58	2.19	1.82	1.60	1.33
Carrier Inserts							
3 way pin	225-812●	0.41	0.38	0.37	0.35	0.33	0.32
8 way pin	225-824●	0.41	0.38	0.37	0.35	0.33	0.32
3 way socket	225-836●	0.43	0.40	0.38	0.36	0.33	0.32
8 way socket	225-848●	0.43	0.40	0.38	0.36	0.33	0.32
BNC 50Ω Plug	384-9200●	4.74	4.37	4.17	3.95	--	--
BNC 50Ω Socket	384-9211●	4.71	4.35	4.15	3.92	--	--
Screw Terminal Inserts							
2 way plug	384-4699●	3.21	2.97	2.84	2.67	2.48	1.98
2 way socket	384-4687●	2.49	2.30	2.20	2.08	1.93	1.54
3 way plug	978-073●	3.10	2.87	2.75	2.64	2.52	2.41
3 way socket	978-061●	5.37	4.95	4.73	4.52	4.32	4.00
4 way plug	307-3210●	3.85	3.54	3.39	3.25	3.11	2.97
4 way socket	307-3221●	5.41	4.99	4.77	4.55	4.36	4.08
6 way plug	307-3233●	4.32	3.98	3.83	3.69	3.53	3.28
6 way socket	307-3245●	5.85	5.40	5.17	4.95	4.74	4.42
Sealing Cap							
To fit free body	241-271●	0.83	0.78	0.74	0.71	0.66	0.62
To fit other bodies	241-283●	0.77	0.72	0.69	0.65	0.61	0.59
Contact Insertion Tool							
	225-873	11.27	10.48	10.03	9.46	--	--
Contacts, Solder bucket, 10 Per PK							
		1+	10+	50+	100+	250+	500+
Pin	225-885●	1.69	1.65	1.48	1.28	1.25	1.17
Sockets	225-897●	2.83	2.72	2.34	2.11	2.06	1.99
Polarising/Blanking Pin							
	225-903●	0.53	0.47	0.38	0.35	0.34	0.30

'Buccaneer'

Environmentally Sealed Connectors - IP68



The Buccaneer range of environmentally sealed connectors is specifically designed for harsh applications where water, dust, oil or spray could present a hazard. Sealed to IP68 these robust connectors have UL, CSA and VDE approvals.

- Sealed to IP68 when mated
- Overall diameter 38mm
- Free socket mates with in-line or panel plugs
- Free plug mates with in-line or panel sockets
- Screw termination on 2, 3, 4, 6 and 7 way, crimp on 9 way and 12 way, crimp or solder 25 way and PCB on 3, 6, 9, 12 and 25 way
- Interchangeable plug or socket inserts
- Housing resistant to dust, oil and salt water
- Leading earth contact for 3 pole socket version
- UL, CSA and VDE approved

Specification

Electrical		Material	
Ratings		Body mouldings	Glass Filled Nylon
2, 3 way	5A 50V ac/dc	Flammability rating	UL94V-0
4 way	6A 250V ac/dc	Contacts	
6, 7 way	3A 250V ac/dc	Screw terminal	Brass, Nickel Plated
9 way	5A 150V ac/dc	Crimp (9 way)	Copper Alloy, Tin Plated
12 way	5A 50V ac/dc	Crimp/solder (12 & 25 way)	Copper Alloy, Gold Plated
25 way	1A 50V ac/dc	PCB	Copper Alloy, Gold Plated
Contact resistance	<5mΩ (2-9 way) <5mΩ (12&25 way)		
Insulation resistance	>10 ¹⁰ MΩ (@ 500V ac)		
Operating temp. range	-20°C to 70°C		
Approvals	CSA, UL, VDE		

Note:

Contacts pre-loaded on 2 to 7 way, supplied loose with 9 way, and order separately for 12 and 25 way.

Mechanical

Sealing	IP68, BS 5490:1977 Tested @ 1.03bar (10m depth) for 2 wks BSEN 60529:1992 Tested @ 9.65bar (100m depth) for 12 hrs
Cable Acceptance	6-8mm O/D (2 to 9 way) 7-9mm O/D (25 way)
Termination	2-7 way - Screw Terminals 9 way - Crimp contacts (Supplied with connector) - 24-26 AWG 12 way - Crimp & Solder contacts - 22-26 AWG 25 way - Crimp & Solder contacts - 0.21mm ² - 0.081mm ²

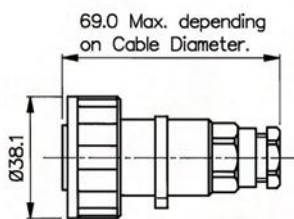
FOR SUITABLE CRIMP TOOL FOR 9 WAY CRIMPS, 105-497
FOR SUITABLE CRIMP TOOL & POSITIONER FOR 12 WAY CRIMPS, 384-1492 & 384-1480
FOR SUITABLE CRIMP TOOL & POSITIONER FOR 25 WAY CRIMPS, 105-837 & 561-447
FOR SUITABLE EXTRACTION/INSERTION TOOL FOR 12 WAY CRIMPS, 384-1455
FOR SUITABLE EXTRACTION/INSERTION TOOL FOR 25 WAY CRIMPS, 146-292

381399



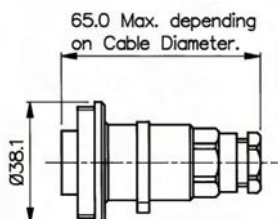
40,000 PRICES REDUCED



B BULGIN

- 381523

Mfrs. List No.	No. of Ways	Current Rating (A)	Order Code	1+	10+	50+	100+	250+	500+
Plugs									
PX0736/P	2	10	314-183●	5.15	4.76	4.55	4.28	3.98	3.80
PX0731/P	3	10	314-195●	5.41	4.98	4.76	4.50	4.17	3.98
PX0748/P	4	6	626-284●	6.44	6.01	5.74	5.48	5.21	4.79
PX0739/P	6	3	314-201●	6.08	5.67	5.43	5.11	4.78	4.58
PX0745/P	7	10	626-030●	6.29	5.88	5.62	5.29	4.95	4.65
PX0728/P	9	5	469-683●	5.41	5.03	4.81	4.50	4.25	4.14
PX0794/P	12	5	840-6766●	4.70	4.30	4.05	3.87	3.54	3.34
PX0820/P	25	1	560-844●	4.21	3.88	3.72	3.51	3.14	2.80
Sockets									
PX0736/S	2	10	314-213●	6.31	5.90	5.64	5.31	4.97	4.76
PX0731/S	3	10	314-225●	6.60	6.16	5.88	5.56	5.20	4.95
PX0748/S	4	6	626-375●	7.37	6.78	6.51	6.25	5.84	5.25
PX0739/S	6	3	314-237●	7.59	7.08	6.77	6.40	5.99	5.73
PX0745/S	7	3	626-090●	7.82	7.27	6.98	6.58	6.16	5.53
PX0728/S	9	5	469-695●	5.38	5.01	4.80	4.52	4.23	4.04
PX0794/S	12	5	840-6774●	4.70	4.30	4.05	3.87	3.54	3.34
PX0820/S	25	1	560-856●	4.09	3.78	3.62	3.41	3.12	2.88

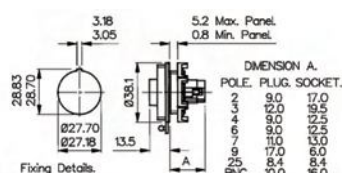
B BULGIN

- 381540

Mfrs. List No.	No. of Ways	Current Rating (A)	Order Code	1+	10+	Price Each				
						50+	100+	250+	500+	
In-Line Connectors										
Plugs										
PX0737/P	2	10	314-304●	5.68	5.31	5.06	4.78	4.47	4.26	
PX0732/P	3	10	314-316●	5.56	5.17	4.95	4.67	4.36	4.18	
PX0749/P	4	6	626-417●	7.33	6.84	6.53	6.23	5.90	5.32	
PX0740/P	6	3	314-328●	6.61	6.16	5.89	5.57	5.21	4.97	
PX0746/P	7	3	626-120●	7.41	6.83	6.53	6.15	5.71	5.15	
PX0729/P	9	5	469-725●	6.33	5.90	5.65	5.32	4.98	4.61	
PX0795/P	12	5	840-6782●	4.70	4.30	4.05	3.87	3.54	3.34	
PX0821/P	25	1	560-881●	4.42	4.13	3.90	3.72	3.55	3.04	
Sockets										
PX0737/S	2	10	314-330●	6.75	6.29	6.02	5.67	5.30	5.08	
PX0732/S	3	10	314-341●	7.12	6.65	6.36	6.00	5.62	5.36	
PX0749/S	4	6	626-508●	8.33	7.75	7.41	7.07	6.64	5.95	
PX0740/S	6	3	314-353●	8.09	7.53	7.21	6.81	6.37	6.11	
PX0746/S	7	3	626-132●	9.01	8.40	8.03	7.60	7.09	6.51	
PX0729/S	9	5	469-737●	6.42	6.00	5.75	5.41	5.07	4.55	
PX0795/S	12	5	840-6790●	4.70	4.30	4.05	3.87	3.54	3.34	
PX0821/S	25	1	560-893●	4.15	3.83	3.68	3.46	3.22	3.09	

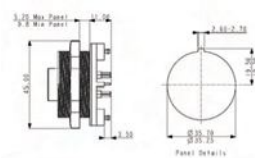


RoHS Compliant
 Non-compliant

**B BULGIN**

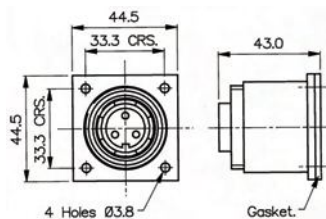
- 381547

Mftrs. List No.	No. of Ways	Current Rating	Order Code	1+	10+	Price Each				
Panel		(A)				50+	100+	250+	500+	
Plugs										
PX0735/P	2	10	314-249●	4.00	3.73	3.57	3.39	3.17	3.03	
PX0730/P	3	10	314-250●	4.38	4.07	3.91	3.68	3.44	3.31	
PX0747/P	4	6	626-170●	5.25	4.84	4.63	4.42	4.09	3.66	
PX0738/P	6	3	314-262●	4.97	4.64	4.44	4.19	3.92	3.75	
PX0744/P	7	3	624-652●	5.29	4.93	4.73	4.46	4.18	3.63	
PX0727/P	9	5	469-701●	4.23	3.95	3.79	3.57	3.35	3.22	
PX0796/P	12	5	840-680A●	4.86	4.45	4.19	4.00	3.66	3.45	
PX0822/P	25	1	560-868●	4.16	3.79	3.62	3.42	3.15	2.62	
Sockets										
PX0735/S	2	10	314-274●	5.00	4.66	4.46	4.21	3.94	3.77	
PX0730/S	3	10	314-286●	5.40	4.97	4.76	4.49	4.17	3.98	
PX0747/S	4	6	626-181●	6.12	5.72	5.46	5.21	4.91	4.41	
PX0738/S	6	3	314-298●	6.64	6.18	5.92	5.59	5.23	5.00	
PX0744/S	7	3	626-028●	6.86	6.33	6.05	5.71	5.30	4.75	
PX0727/S	9	5	469-713●	4.38	4.07	3.90	3.69	3.45	3.27	
PX0796/S	12	5	840-681B●	4.86	4.45	4.19	4.00	3.66	3.45	
PX0822/S	25	1	560-870●	4.38	3.99	3.81	3.60	3.31	2.73	

B BULGIN

- 381550

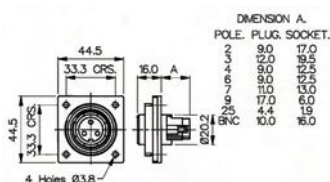
Mfrs. List No.	No. of Ways	Current Rating (A)	Order Code	1+	10+	Price Each 50+	100+	250+	500+
Plugs									
PX0707/P/09	9	5	840-6693●	9.00	8.04	7.28	6.01	5.78	5.42
Sockets									
PX0707/S/06	6	3	840-6685●	10.42	9.33	8.44	6.95	6.68	6.30
PX0707/S/12	12	5	840-6723●	12.34	11.07	9.97	8.24	7.93	7.44



- 381553

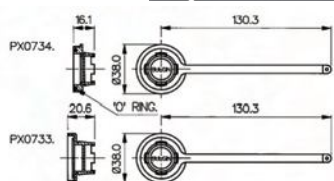
Mfrs. List No.	No. of Ways	Current Rating (A)	Order Code	1+	10+	Price 50+	Each 100+	250+	500+
Bulkhead									
Sockets									
PX0757/S	2	10	314-365 ●	7.26	6.66	5.43	4.51	3.99	3.28
PX0756/S	3	10	314-377 ●	7.74	7.09	5.84	4.83	4.26	3.51
PX0758/S	6	3	314-389 ●	8.94	8.16	6.69	5.57	4.88	4.04



B BULGIN**B BULGIN**

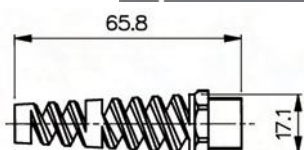
- Low Profile Flange Mounting
- Mates with Free Connector
- Screw flange fixing
- Supplied with neoprene gasket

Mfrs. List No.	No. of Ways	Current Rating (A)	Order Code	1+	10+	Price Each				
						50+	100+	250+	500+	
Flange Mounting										
Plugs										
PX0764/P	2	10	977-986●	5.29	4.93	4.73	4.46	4.18	3.90	
PX0765/P	3	10	978-000●	5.97	5.51	5.27	4.94	4.62	4.09	
PX0767/P	6	3	978-024●	5.87	5.47	5.23	4.93	4.61	4.34	
PX0769/P	9	5	978-048●	6.32	5.89	5.65	5.32	4.98	4.63	
Sockets										
PX0764/S	2	10	977-998●	6.11	5.65	5.39	5.08	4.72	4.36	
PX0765/S	3	10	978-012●	6.39	5.95	5.70	5.38	5.03	4.64	
PX0767/S	6	3	978-036●	7.50	6.90	6.60	6.23	5.78	5.29	
PX0769/S	9	5	978-050●	6.00	5.60	5.37	5.05	4.73	4.40	



- Sealing Cap to maintain IP68 rating of un-mated connectors
- Three styles, one for Free, one for In-Line and Panel styles and one for PCB style
- Doubles as assembly tool to fit inserts

Mfrs. List No.	Order Code	1+	10+	50+	100+	250+	500+
To Fit Free Connector							
PX0734	314-407●	0.91	0.88	0.84	0.77	0.74	0.69
To Fit Free In-Line And Panel Connectors							
PX0733	314-390●	0.55	0.51	0.49	0.48	0.47	0.46
To Fit PCB Connector							
PX0711	840-6758●	1.04	0.91	0.85	0.69	0.63	0.61



- Cable Support accessory
- Suitable for 5-7mm and 7-9mm cable diameters
- Gives extra support to the cable

Mfrs. List No.	Order Code	1+	25+	50+	100+	250+	500+
Cable Support Accessory							
12237	314-419●	0.56	0.52	0.49	0.47	0.43	0.42

Farnell

- Gold plated contacts for 12 & 25 way inserts
- Pins or Sockets
- Crimp or Solder termination
- Contacts sold in packs of 10

Mfrs. List No.	Connector Type	Order Code	Price Each						
			1+	10+	50+	100+	250+	500+	
Crimp Pins (10 PK)									
SA3348	12 way	384-1340●	3.12	2.88	2.75	2.59	2.41	2.04	
SA3180	25 way	560-900●	2.60	2.41	2.31	2.19	1.98	1.62	
Solder Pins (10 PK)									
SA3348/1.	12 way	384-1406●	3.12	2.88	2.75	2.59	2.41	2.04	
SA3180/1	25 way	561-289●	2.41	2.22	2.13	2.01	1.87	1.53	
Crimp Sockets (10 PK)									
SA3347	12 way	384-1339●	5.00	4.61	4.40	4.16	3.86	3.26	
SA3179	25 way	560-911●	3.79	3.49	3.34	3.15	2.92	2.43	
Solder Sockets (10 PK)									
SA3347/1.	12 way	384-1390●	5.00	4.61	4.40	4.16	3.86	3.26	
SA3179/1	25 way	561-290●	3.60	3.33	3.19	2.99	2.74	2.29	

B BULGIN

Pack of cable glands to suit cables from 3.5mm to 9mm diameter

Grey: 3.5 - 5mm Yellow: 7 - 9mm
White: 5 - 7mm

Mfrs. List No.	Order Code	1 +	25 +	Price Each	50 +	100 +	500 +
SA3253	165-4772●	0.220	0.193	0.173	0.152	0.142	

B BULGIN

- Provides environmental seal to rear of panel up to IP68
- Standard cable acceptance of 6 - 8mm, 3.5 - 9mm with alternative glands
- For use on front panel mounting Standard Buccaneer® connectors

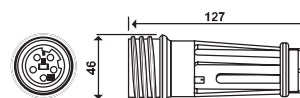
Mftrs. List No.	Order Code	1+	25+	50+	100+	250+	500+
PX0799	168-7576 ●	2.23	2.09	1.91	1.86	1.76	1.34

Product Search

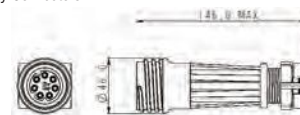
Buccaneer



 RoHS Compliant Items Only | Advanced Search



2 - 5 Way Connectors



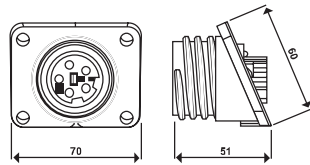
7 Way Connectors

- In-line flex cable connector
- Mates with PX0911 connectors
- 13-15mm cable diameter as standard, 20-22mm diameter with additional gland pack

Mftrs. List Nos:
 2 - 5 Way Connectors Plug=PX0921/xx/P, Socket=PX0921/xx/S, where xx=no. of ways
 7 - 10 Way Connectors Plug=PX A921/xx/P, Socket=PX A921/xx/S,

No. of Ways	Order Code	1+	25+	50+	100+	250+	500+
Plug							
3	313-5883●	9.97	9.19	8.80	8.43	7.64	6.26
4	313-5895●	11.55	10.64	10.17	9.72	9.29	7.07
5	313-5901●	12.50	11.49	11.00	10.53	10.09	7.86
7	384-4614●	17.53	16.15	15.44	14.55	13.50	11.14
10	168-7570●	22.67	21.25	19.43	18.89	17.89	13.60
Socket							
2	313-5913●	9.29	8.56	8.17	7.80	7.46	5.85
3	313-5925●	11.21	10.33	9.88	9.46	9.05	6.83
4	313-5937●	10.22	9.40	8.99	8.61	8.26	6.25
5	313-5949●	13.95	12.84	12.30	11.78	10.68	8.80
7	384-4626●	19.69	18.13	17.34	16.36	15.18	11.92
10	168-7571●	24.10	22.59	20.66	20.08	19.03	14.46

900 Series Buccaneer



- Flange mounting connector
- Supplied with high grade sealing gasket

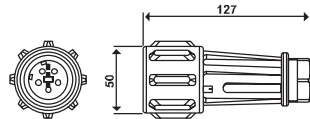
Mftrs. List Nos: Plug=PX0941/xx/P, Socket=PX0941/xx/S, where xx=no. of ways

209298

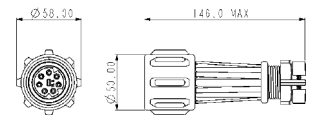
No. of Ways	Order Code	1+	25+	50+	100+	250+	500+
Plug							
3	313-6048●	15.01	13.83	13.23	12.66	11.37	9.37
4	313-6050●	12.22	11.25	10.75	10.30	9.26	7.65
5	313-6061●	17.59	16.18	15.49	14.84	14.21	10.96
7	384-4651●	20.66	19.01	18.19	17.16	15.92	13.14
10	168-7574●	23.20	21.75	19.89	19.33	18.32	13.92
Socket							
2	313-6073●	14.39	13.25	12.67	12.10	11.57	8.93
3	313-6085●	16.39	15.09	14.44	13.73	12.03	9.95
4	313-6097●	18.06	16.63	15.90	15.19	14.53	10.91
5	313-6103●	19.63	18.07	17.28	16.53	15.81	11.86
7	384-4663●	22.25	20.48	19.58	18.47	17.13	14.14
10	168-7575●	24.43	22.91	20.94	20.36	19.29	14.66

900 Series Buccaneer

32A 600V



2 - 5 Way Connectors



7 Way Connectors

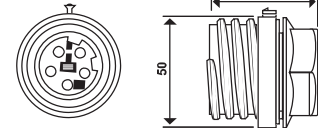
- Flex cable connector
- Positive, fast acting locking ring - can be turned with a gloved hand
- Mates with panel or cable mounting connectors
- 13-15mm cable diameter as standard, 20-22mm diameter with additional gland pack

Mftrs. List Nos:
 2 - 5 Way Connectors Plug=PX0911/xx/P, Socket=PX0911/xx/S, where xx=no. of ways
 7 - 10 Way Connectors Plug=PXA911/xx/P, Socket=PXA911/xx/S,

209301

No. of Ways	Order Code	1+	25+	50+	100+	250+	500+
Plug							
2	313-5792●	11.55	10.64	10.17	9.72	9.29	7.07
3	313-5809●	12.81	11.80	11.29	10.81	10.35	7.86
4	313-5810●	14.25	13.11	12.55	12.00	11.49	8.68
5	313-5822●	15.20	14.01	13.39	12.80	12.23	9.47
7	384-4596●	20.68	19.05	18.22	17.19	15.96	12.52
10	168-7568●	25.67	24.06	22.00	21.39	20.26	15.40
Socket							
2	313-5834●	12.24	11.26	10.79	10.34	9.89	7.48
3	313-5846●	13.88	12.78	12.24	11.72	11.22	8.43
4	313-5858●	15.40	14.17	13.55	12.96	12.38	9.40
5	313-5860●	16.70	15.37	14.71	14.07	12.62	10.43
7	384-4602●	21.63	19.90	19.04	17.95	16.65	13.47
10	168-7569●	27.10	25.41	23.23	22.58	21.39	16.26

900 Series Buccaneer



- Chassis mounting connector
- Anti-rotation keyway
- High grade sealing gasket
- 3-7mm panel thickness

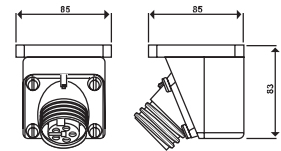
Mftrs. List Nos: Plug=PX0931/xx/P, Socket=PX0931/xx/S, where xx=no. of ways

209302

No. of Ways	Order Code	1+	25+	50+	100+	250+	500+
Plug							
2	313-5950●	7.46	6.87	6.57	6.28	6.02	4.64
3	313-5962●	8.74	8.04	7.69	7.34	7.02	5.45
4	313-5974●	10.00	9.22	8.82	8.44	7.59	6.23
5	313-5986●	11.62	10.71	10.23	9.77	9.32	6.79
7	384-4638●	14.42	13.27	12.70	11.98	11.12	8.88
10	168-7572●	18.57	17.41	15.91	15.47	14.66	11.14
Socket							
2	313-5998●	8.12	7.49	7.17	6.85	6.57	5.03
3	313-6000●	7.10	6.54	6.25	5.98	5.72	4.42
4	313-6012●	11.22	10.34	9.88	9.45	8.47	6.98
5	313-6024●	10.30	9.47	9.07	8.68	8.31	6.36
7	384-4640●	17.28	15.92	15.22	14.35	13.32	10.34
10	168-7573●	19.80	18.56	16.97	16.50	15.63	11.88

900 Series Buccaneer

Accessories



- PX0950 Additional bulkhead adaptor moulding
- For use with PX0941 to give 45° or 90° angle
- Supplied with high grade sealing gasket and screws for fixing PX0941

PX0950 Bulkhead adaptor moulding with gasket and screws

PX0960 Sealing cap for use with PX091/xx/xx

PX0970 Sealing cap for use with all other styles

PX0980 Gland pack for 7-13mm diameter cables

PXA980 Gland pack for 14-20mm diameter cables

209300

Mftrs. List No.	Order Code	1+	25+	50+	100+	250+	500+
PX0950	313-6115●	12.22	11.24	10.75	10.29	9.85	7.47
PX0960	313-6127●	1.81	1.68	1.61	1.55	1.49	1.11
PX0970	313-6139●	3.35	3.09	2.96	2.81	2.39	2.01
PX0980	313-6140●	1.30	1.19	1.16	1.12	1.09	0.83
PXA980	384-4675●	1.12	1.03	0.99	0.94	0.89	0.73

Barracuda

Environmentally Sealed Connectors - IP68



The Barracuda range of environmental IP68 sealed connectors is specifically designed for harsh applications where water, dust, oil or spray is present. These moulded connectors feature enhanced ergonomics and ruggedised mouldings.

- Sealed to IP68 when mated
- Overall diameter 38mm
- Free socket mates with in-line or panel plugs
- Free plug mates with in-line or panel sockets
- Screw termination 3, 4, 6 and 7 way
- Interchangeable plug or socket inserts
- Housing resistant to dust, oil and salt water
- Leading earth contact for 3 pole socket version
- UL approved materials

Specification

Ratings
 3 way 5A, 50V AC/DC
 4 way 6A, 250V AC/DC
 6,7 way 3A, 250V AC/DC
 Contact Resistance 5mohm
 Insulation Resistance ≥1000Mohm (@500V ac)
 Operating temp. range -20°C to 70°C

Body mouldings
 Flammability Ratings
 Contacts

Cable Acceptance

Glass Filled Nylon
 UL94HB (Gehäuse),
 UL94V-0 (Einsätze)
 Screw terminal, Brass Nickel plated
 6 - 8mm



Circular Multipole - continued

Barracuda - continued

Environmentally Sealed Connectors - IP68 - continued

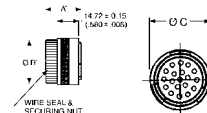
451394

No. of Ways	Mfr. List No.	Order Code	1+	10+	50+	100+
Free Plug						
3	BAR0731P-IP68	130-8080●	4.22	3.90	3.65	3.48
4	BAR0748P-IP68	130-8081●	4.64	4.30	4.01	3.84
6	BAR0739P-IP68	130-8082●	5.00	4.63	4.32	4.13
Free Socket						
3	BAR0731S-IP68	130-8084●	6.42	5.94	5.54	5.29
4	BAR0748S-IP68	130-8085●	5.32	4.94	4.61	4.41
6	BAR0739S-IP68	130-8086●	6.24	5.78	5.40	5.16
In-Line Plug						
3	BAR0732P-IP68	130-8089●	4.33	4.02	3.73	3.57
4	BAR0749P-IP68	130-8090●	5.28	4.91	4.56	4.38
6	BAR0740P-IP68	130-8091●	5.15	4.78	4.45	4.26
In-Line Socket						
3	BAR0732S-IP68	130-8093●	5.53	5.12	4.78	4.58
4	BAR0749S-IP68	130-8094●	6.02	5.58	5.20	4.97
6	BAR0740S-IP68	130-8095●	6.29	5.82	5.43	5.20
Jam Nut Panel Plug						
3	BAR0730P-IP68	130-8097●	3.59	3.33	3.09	2.96
4	BAR0747P-IP68	130-8098●	3.70	3.43	3.20	3.05
6	BAR0738P-IP68	130-8100●	4.06	3.76	3.50	3.36
Jam Nut Panel Socket						
3	BAR0730S-IP68	130-8102●	4.22	3.90	3.65	3.48
4	BAR0747S-IP68	130-8103●	4.43	4.10	3.82	3.65
6	BAR0738S-IP68	130-8104●	5.17	4.79	4.47	4.27
Cap Kit						
Panel & In-BAR0733-IP68						
Line		130-8107●	0.51	0.48	0.45	0.43
Free	BAR0734-IP68	130-8108●	0.80	0.73	0.67	0.65

Reversed Plugs (Socket Contacts) with Wire Seal



- Mates with reversed receptacles
- Accepts socket contacts
- Contacts to be ordered separately
- Sealed to IP67 when mated



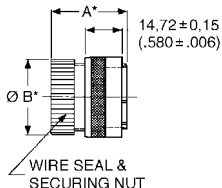
Mfrs. List No.	No. of Ways	Shell Size	A	Dimensions	ØB	ØC
TNM6S10-0004S1L	4	10	34.2	17.5	21.6	
TNM6S12-0008S1L	8	12	34.2	20.6	24.8	
TNM6S14-0012S1L	12	14	34.2	24.3	28.0	
TNM6S16-0019S1L	19	16	42.5	27.0	31.2	

Note: Standard and Reversed connectors are not intermateable

230943

No. of Ways	Shell Size	Order Code	1+	25+	Price Each	50+	100+	250+
Reversed Plugs - Accept Socket Contacts								
4	10	118-6742●	11.26	10.47	10.03	9.47	8.86	
8	12	118-6743●	11.97	11.14	10.67	10.07	9.42	
12	14	118-6744●	12.40	11.54	11.06	10.42	9.75	
19	16	118-6745●	12.60	11.72	11.22	10.60	9.91	

Standard Plugs (Pin Contacts) with Wire Seal



- Mates with standard receptacles
- Accepts pin contacts
- Contacts to be ordered separately
- Sealed to IP67 when mated

Mfrs. List No.	No. of Ways	Shell Size	A	Dimensions	ØB	ØC
TNM6S10-0004P1L	4	10	42.5	17.5	21.6	
TNM6S12-0008P1L	8	12	42.5	20.6	24.8	
TNM6S14-0304P1L	3+4	14	42.5	24.3	28.0	
TNM6S14-0012P1L	12	14	42.5	24.3	28.0	
TNM6S16-0019P1L	19	16	42.5	27.0	31.2	

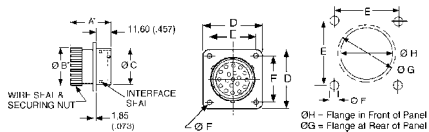
230940

No. of Ways	Shell Size	Order Code	1+	25+	Price Each	50+	100+	250+
Standard Plugs - Accept Pin Contacts								
4	10	118-6731●	11.26	10.47	10.03	9.47	8.86	
8	12	118-6732●	11.61	10.80	10.33	9.75	9.11	
3+4	14	118-6733●	11.66	10.13	9.27	8.62	7.64	
12	14	118-6734●	12.40	11.54	11.06	10.42	9.75	
19	16	118-6736●	12.66	11.78	11.27	10.64	9.95	

Standard Receptacles (Socket Contacts) with Wire Seal



- Mates with standard plugs
- Accepts socket contacts
- Contacts to be ordered separately
- Sealed to IP67 when mated



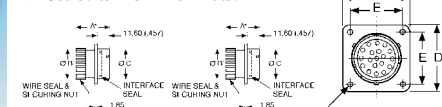
Mfrs. List No.	No. of Ways	Shell Size	A	Dimensions	ØB	ØC	D	E	ØF	ØG	ØH
TNMOS12-0008S1L	8	12	34.7	20.6	18.98	26.15	20.62	3.2	21.8	18.2	
TNMOS14-0012S1L	12	14	34.7	24.3	22.16	28.54	22.8	3.5	25.0	21.4	
TNMOS16-0019S1L	19	16	34.7	27.0	25.33	30.89	24.61	3.5	28.1	24.6	

230942

Reversed Receptacles (Pin Contacts) with Wire Seal



- Mates with reversed plugs
- Accepts pin contacts
- Contacts to be ordered separately
- Sealed to IP67 when mated



Mfrs. List No.	No. of Ways	Shell Size	A	Dimensions	ØB	ØC	D	E	ØF	ØG
TNMOS10-0004P1L	4	10	43.0	17.5	14.92	23.79	18.26	3.2	17.3	
TNMOS12-0008P1L	8	12	43.0	20.6	18.98	26.15	20.62	3.2	21.8	
TNMOS14-0012P1L	12	14	43.0	24.3	22.16	28.54	22.8	3.5	25.0	
TNMOS16-0019P1L	19	16	34.7	27.0	25.33	30.89	24.61	3.5	28.1	

Note: Standard and Reversed connectors are not intermateable

230944

No. of Ways	Shell Size	Order Code	1+	25+	Price Each	50+	100+	250+
Reversed Receptacles - Accept Pin Contacts								
4	10	118-6746●	6.26	5.84	5.58	5.27	4.93	
8	12	118-6748●	6.64	6.17	5.92	5.59	5.23	
12	14	118-6749●	6.89	6.41	6.13	5.79	5.41	
19	16	118-6750●	6.91	6.43	6.17	5.81	5.44	

Jam Nut Receptacles (Socket Contacts)



Type	No. of Ways	Shell Size	A	B	C	Dimensions	ØD	ØE	ØF	G
Standard	3+4	14	43	17.5	14.92	23.79	18.26	3.2	17.3	

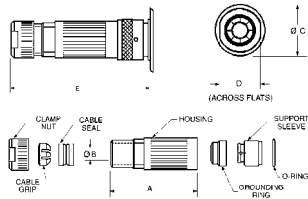
- Combined signal and 30A power contacts
- Standard accepts socket contacts, mates only with standard plug
- Contacts to be ordered separately
- Sealed to IP67 when mated

Mfrs. List No. TNM7S14-0304S1L=118-6751

230947

No. of Ways	Shell Size	Order Code	1+	25+	Price Each	50+	100+	250+
Standard Receptacle - Accepts Socket Contacts								
3+4	14	118-6751●	9.41	8.94	8.52	8.13	7.62	

Universal Shielded Endbell



- Use with shielded jacketed cables to meet EMC requirements
- Ensures full 360° EMC shielding
- IP67 rated
- Suitable for standard and reversed plugs

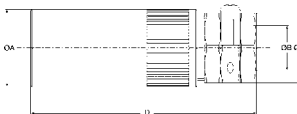
Housing	Aluminium / Nickel	Mfrs. List No.	TNA10CCSE00L=118-6763
Grounding ring	Aluminium / Nickel		TNA12CCSE00L=118-6764
Clamp nut	Aluminium / Nickel		TNA14CCSE00L=118-6765
Cable grip	Nylon UL94V-0		TNA16CCSE00L=118-6766
Support sleeve	Nylon UL94V-0		
O-ring	Rubber		
Cable seal	Rubber		

Shell Size	Cable Dia. Range	A	ØB	ØC	E max.		Reversed Format
					ØD	Standard Format	
10	4.4 - 7.3	18.1	5	10	19	70.0	70.0
12	6.4 - 9.5	21.2	6	12	21	72.0	72.0
14	6.9 - 10.2	24.2	7	14	23	78.0	78.0
16	7.9 - 12.6	27.6	8	16	25	82.5	82.5

230989

Shell Size	Order Code	1+	25+	50+	100+	250+
10	118-6763	10.40	8.96	8.22	7.62	6.76
12	118-6764	10.79	9.31	8.53	7.92	7.02
14	118-6765	11.79	10.16	9.31	8.65	7.66
16	118-6766	11.98	10.32	9.44	8.78	7.77

Shielded Endbell



- For use with jacketed cables
- Suitable for standard and reversed plugs
- Metal body with plastic cable clamp

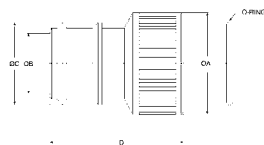
Shell Size	Cable Dia. Range	ØA max.	ØB min.	ØB max.	ØC	D max.
10	5 - 10	18.1	5	10	19	70.0
12	6 - 12	21.2	6	12	21	72.0
14	7 - 14	24.2	7	14	23	78.0
16	8 - 16	27.6	8	16	25	82.5

Mfrs. List No.	TNA10CC-SE01L=118-6753	TNA14CC-SE01L=118-6755
	TNA12CC-SE01L=118-6754	TNA16CC-SE01L=118-6756

230980

Shell Size	Order Code	1+	25+	50+	100+	250+
10	118-6753	9.69	9.02	8.64	8.28	7.94
12	118-6754	10.55	9.83	9.41	9.01	8.64
14	118-6755	11.79	10.16	9.31	8.65	7.66
16	118-6756	11.72	10.90	10.43	9.99	9.57

Heat Shrink Adaptor



- Allows use of heat shrink tubing to provide extra protection to jacketed cables
- Enables bundling of discrete wiring for strain relief and protection

Shell Size	ØA max.	ØB max.	ØC	D max.	Mfrs. List No.	TNA16HSAD00L=118-6762
16	27.6	16.3	22	82.5		

230987

Shell Size	Order Code	1+	25+	50+	100+	250+
16	118-6762	4.90	4.58	4.39	4.19	4.01

Trident 'Ring Lock' Series



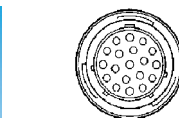
Circular plastic connectors with 5-bayonet metal locking ring mechanism. Rated at up to 13A and 250V ac they provide quick and reliable connections for industrial applications.

- Available in nine shell sizes and insert arrangements
- Shell to shell keying
- Unsealed and sealed options
- Integral moulded body and insulator
- Accept all Trident contacts
- UL and CSA recognised
- 7 way meets VDE 0110 requirements

Operating voltage	250V ac	Temperature range	-55°C to 105°C
Maximum current	13A	Locking ring	Copper Alloy

230681

Standard Plugs (Pin Contacts)



- Mate with standard receptacles
- Accept pin contacts
- Contacts to be ordered separately
- IP65 protection using sealed cable clamp with round jacketed cable and mated with a sealed receptacle

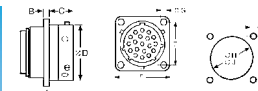
No. of Ways	Shell Size	A	B	C	D	E	Accessory Thread
		±0.2	max.	±0.15	±0.15		
4	10	21.6	31.8	10.9	12.2	19.1±0.2	9/16-24UNEF
7	18	34.3	33	22.5	24	19.1±0.2	1 1/16-18UNEF
8	12	24.8	31.8	13.8	15.1	19.1±0.2	1 1/16-24UNEF
12	14	28	31.8	17	18.3	19.1±0.2	13/16-20UNEF
19	16	31.2	31.8	19.9	21.4	19.1±0.2	15/16-18UNEF
23	18	34.3	31.8	22.4	24	19.1±0.2	1 1/16-18UNEF
48	24	43.9	31.8	31.7	33.5	14.72±0.15	1 7/16-18UNEF

Mfrs. List No.	TR1004PMS1NB=118-6705	TR1619PMS1NB=118-6709
	TR1807PMS1NBE=118-6706	TR1823PMS1NB=118-6710
	TR1208PMS1NB=118-6707	TR2448PMS1NB=118-6712
	TR1412PMS1NB=118-6708	

230685

No. of Ways	Shell Size	Order Code	Price Each				
			1+	25+	50+	100+	250+
Standard Plugs - Accept Pin Contacts							
4	10	118-6705●	6.46	5.61	5.12	4.78	4.23
7	18	118-6706●	8.47	7.37	6.75	6.27	5.55
8	12	118-6707●	7.11	6.19	5.66	5.25	4.66
12	14	118-6708●	6.78	5.89	5.39	5.00	4.45
19	16	118-6709●	6.85	5.97	5.47	5.07	4.50
23	18	118-6710●	8.41	7.32	6.70	6.24	5.51
28	20	118-6783●	10.42	9.07	8.30	7.72	6.84
35	22	118-6785●	12.15	10.58	9.68	8.98	7.98
48	24	118-6712●	11.87	10.33	9.44	8.79	7.79

Standard Receptacles (Socket Contacts)



- Mates with standard plugs
- Accept socket contacts
- Contacts to be ordered separately
- Available in unsealed or sealed options
- Sealed to IP65 when mated with standard plug using sealed cable clamp and round jacketed cable

No. of Ways	Shell Size	A	B	C	D	E	F	ØG	ØH	ØJ	Accessory Thread
		max.	±0.15	±0.2	±0.15	±0.15	±0.25	±0.1	±0.1	±0.1	
4	10	25.8	2.3	11.15	15	18	23.5	3.25	17.3	15.1	9/16-24UNEF
7	18	32.5	2.3	18.2	28.5	27	33.3	3.25	31.3	27.8	1 1/16-18UNEF
8	12	25.8	2.3	11.35	19	20.5	26.2	3.25	21.8	18.2	13/16-20UNEF
12	14	25.8	2.3	11.35	22.2	22.6	28.15	3.25	25	21.4	13/16-20UNEF

Circular Multipole - continued

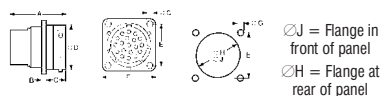
Standard Receptacles (Socket Contacts) - continued

No. of Ways	Shell Size	A	B	C	Dimensions				Accessory
					D	E	F	ØG	
19	16	25.8	2.3	11.35	25.4	24.2	30.5	3.25	15/16-20UNEF
23	18	25.8	2.5	11.35	28.5	26.9	33.3	3.25	1 1/16-18UNEF
28	20	33.3	2.5	14.5	31.7	29.2	36.5	3.25	1 3/16-18UNEF
35	22	33.3	3.5	14.5	34.9	31.6	39.7	3.25	1 5/16-18UNEF
48	24	33.3	3.5	15.3	38.05	34.45	42.9	3.9	1 7/16-18UNEF

No. of Ways	Shell Size	Order Code	1+	25+	Price Each 50+	100+	250+
Unsealed - Accept Socket Contacts							
4	10	118-8245●	3.37	2.92	2.65	2.50	2.22
8	12	118-8247●	3.65	3.16	2.91	2.69	2.40
12	14	118-8248●	3.73	3.22	2.96	2.74	2.46
19	16	118-8249●	3.96	3.44	3.14	2.93	2.59
23	18	118-8250●	4.21	3.66	3.37	3.13	2.75
28	20	118-8251●	4.85	4.22	3.88	3.60	3.19
35	22	118-8253●	5.17	4.53	4.12	3.84	3.40
48	24	118-8254●	5.51	4.79	4.41	4.10	3.63
Sealed - Accept Socket Contacts							
4	10	118-8234●	4.07	3.54	3.22	3.00	2.66
7	18	118-8235●	5.80	5.03	4.62	4.28	3.82
8	12	118-8236●	4.49	3.91	3.58	3.32	2.94
12	14	118-8237●	4.57	3.97	3.65	3.40	3.00
19	16	118-8238●	4.49	3.91	3.56	3.32	2.94
23	18	118-8241●	5.80	5.03	4.62	4.28	3.82
28	20	118-8242●	6.07	5.27	4.82	4.51	3.98
35	22	118-8243●	5.87	5.12	4.67	4.35	3.87
48	24	118-8244●	6.89	6.01	5.49	5.10	4.53

230691

Reversed Receptacles (Pin Contacts)



- Mates with reversed plugs
- Accept pin contacts
- Contacts to be ordered separately
- Available in unsealed or sealed options
- Sealed to IP65 when mated with reversed plug using sealed cable clamp and round jacketed cable

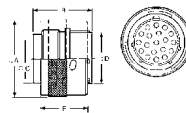
No. of Ways	Shell Size	A	B	C	Dimensions				Accessory
					D	E	F	ØG	
4	10	31.5	2.3	11.35	15	18	23.5	3.25	15/16-20UNEF
12	14	31.5	2.3	11.35	22.2	22.6	28.15	3.25	1 1/16-18UNEF
19	16	31.5	2.3	11.35	25.4	24.2	30.5	3.25	1 3/16-18UNEF
23	18	31.5	2.5	11.35	28.5	26.9	33.3	3.25	1 5/16-18UNEF
28	20	33	2.5	14.55	31.7	29.2	36.5	3.25	1 7/16-18UNEF
35	22	33	3.5	14.55	34.9	31.6	39.7	3.25	
48	24	34.8	3.5	15.3	38.05	34.45	42.9	3.9	

Note: Standard and Reversed connectors are not interchangeable

230696

No. of Ways	Shell Size	Order Code	1+	25+	50+	100+	250+
Unsealed - Accept Pin Contacts							
4	10	118-8263●	3.52	3.07	2.83	2.60	2.31
8	12	118-8266●	3.65	3.16	2.91	2.69	2.40
12	14	118-8267●	3.73	3.22	2.96	2.74	2.46
19	16	118-8268●	3.96	3.44	3.14	2.93	2.59
23	18	118-8269●	4.64	4.03	3.71	3.44	3.04
28	20	118-8270●	4.85	4.22	3.88	3.60	3.19
35	22	118-8271●	5.17	4.53	4.12	3.84	3.40
48	24	118-8272●	5.50	4.78	4.39	4.09	3.62
Sealed - Accept Pin Contacts							
4	10	118-8255●	3.37	2.93	2.68	2.50	2.22
8	12	118-8256●	4.35	3.78	3.46	3.20	2.85
12	14	118-8257●	4.64	4.03	3.71	3.45	3.05
19	16	118-8258●	3.89	3.38	3.09	2.88	2.54
23	18	118-8259●	5.80	5.03	4.62	4.28	3.82
28	20	118-8260●	6.07	5.27	4.82	4.51	3.98
35	22	118-8261●	4.77	4.15	3.79	3.54	3.14
48	24	118-8262●	6.90	6.02	5.50	5.11	4.54

Reversed Plugs (Socket Contacts)



- Mates with reversed receptacles
- Accept socket contacts
- Contacts to be ordered separately
- IP65 protection using sealed cable clamp with round jacketed cable and mated with a sealed reversed receptacle

No. of Ways	Shell Size	A	B	C	D	E	Accessory
4	10	21.6	26.1	11	12.2	19.1±0.2	9/16-24UNEF
8	12	24.8	25.6	13.9	15.1	19.1±0.2	11/16-24UNEF
12	14	28	26.8	17.1	18.3	19.1±0.2	13/16-20UNEF
19	16	31.2	27.6	20	21.4	19.1±0.2	15/16-18UNEF
23	18	34.3	25.6	22.5	24	19.1±0.2	1 1/16-18UNEF
28	20	37.5	31.3	25.7	27.1	19.1±0.2	1 3/16-20UNEF
35	22	40.7	31.3	28.6	30.4	19.1±0.2	1 5/16-18UNEF
48	24	43.9	31.3	31.8	33.5	14.72±0.15	1 7/16-18UNEF

Mfrs. List No.	TR1004PFS1NB=118-6713	TR1823PFS1NB=118-6718
	TR1208PFS1NB=118-6715	TR2028PFS1NB=118-6719
	TR1412PFS1NB=118-6716	TR2448PFS1NB=118-6721
	TR1619PFS1NB=118-6717	TR2235PFS1NB=118-6720

Note: Standard and Reversed connectors are not interchangeable

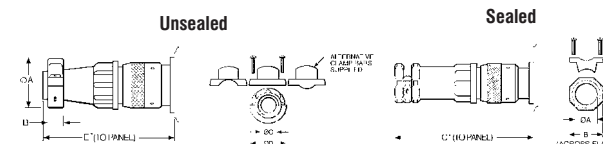
230692

No. of Ways	Shell Size	Order Code	Price Each				
			1+	25+	50+	100+	250+
Reversed Plugs - Accept Socket Contacts							
4	10	118-6713●	6.27	5.47	5.00	4.64	4.12
8	12	118-6715●	6.53	5.68	5.20	4.84	4.28
12	14	118-6716●	9.37	8.17	7.44	6.93	6.16
19	16	118-6717●	7.54	6.57	6.02	5.57	4.94
23	18	118-6718●	7.78	6.79	6.21	5.78	5.11
28	20	118-6719●	10.42	9.07	8.30	7.72	6.84
35	22	118-6720●	12.13	10.57	9.67	8.98	7.98
48	24	118-6721●	11.39	9.91	9.08	8.45	7.49

Cable Clamps



- Provide strain relief and wire protection
- Suitable for standard and reversed plugs
- Sealed clamps provide IP65 protection for plugs using round jacketed cable when mated with receptacles



Mfrs. List No.	Shell Size	ØA max.	B ±0.15	ØC max.	D ±0.15	E* max.
TR10ASR1N	10	15.5	17	15.5	15.5	15.5
TR12ASR1N	12	19	17	19	19	19
TR14ASR1N	14	24	17	24	24	24
TR16ASR1N	16	19	22	19	19	19
TR20ASR1N	20	49.5	32	49.5	49.5	49.5
TR22ASR1N	22	19	32	19	19	19
TR18ASR1N	18	24	42	24	24	24
TR24ASR1N	24					49.5

*For disassembly add 9.0 for shell sizes 10-16 and 10.6 for shell sizes 18-24

Mfrs. List No.	Shell Size	ØA** max.	Dimensions B ±0.2	C* max.
TR10AHC1N	10	11.1	18.8	76.5
TR12AHC1N	12	13.6	20.8	77.8
TR14AHC1N	14	14.6	22.8	85.5
TR16AHC1N	16	16.6	24.7	89.8
TR18AHC1N	18	16.6	24.7	93
TR20AHC1N	20	22.1	31.8	107.5
TR22AHC1N	22	22.1	31.8	114.5
TR24AHC1N	24	29.6	41.8	49.5

*For disassembly add 9.0 for shell sizes 10-16 and 10.6 for shell sizes 18-24

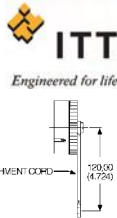
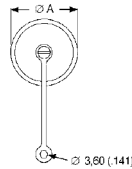
**Assumes a uniformly round jacketed cable. Diameter variations could affect sealing

230705

Shell Size	Mfrs. List No.	Order Code	Price Each				
			1+	25+	50+	100+	250+
Unsealed							
10	TR10ASR1N	118-8282	2.87	2.48	2.26	2.11	1.86
12	TR12ASR1N	118-8283	2.87	2.48	2.26	2.11	1.86
14	TR14ASR1N	118-8284	3.05	2.61	2.41	2.23	2.00
16	TR16ASR1N	118-8285	3.10	2.68	2.47	2.28	2.03
20	TR20ASR1N	118-8286	3.21	2.79	2.54	2.39	2.09
22	TR22ASR1N	118-8287	3.63	3.11	2.87	2.63	2.37
18	TR18ASR1N	118-8289	3.06	2.62	2.42	2.24	2.00
24	TR24ASR1N	118-8291	3.43	2.95	2.69	2.52	2.23

Shell Size	Mfrs. List No.	Order Code	1+	25+	50+	100+	250+
Sealed							
10	TR10AHC1N	118-6722●	5.42	4.67	4.27	3.97	3.52
12	TR12AHC1N	118-6724●	5.54	4.77	4.35	4.07	3.60
14	TR14AHC1N	118-6725●	6.76	5.82	5.34	4.96	4.40
16	TR16AHC1N	118-6726●	6.68	5.75	5.26	4.89	4.34
18	TR18AHC1N	118-6727●	6.63	5.71	5.23	4.85	4.30
20	TR20AHC1N	118-6728●	8.78	7.56	6.92	6.44	5.70
22	TR22AHC1N	118-6729●	7.98	6.87	6.29	5.85	5.19
24	TR24AHC1N	118-6730●	9.88	8.54	7.79	7.26	6.42

Dust Caps



- Plastic dust caps to protect unmated receptacles
- Durable construction for long-term
- Suitable for standard and reversed options

Shell Size	Dimension ØA max.	Shell Size	Dimension ØA max.	Shell Size	Dimension ØA max.
14	28.6	16	31.7		

230700

Shell Size	Mfrs. List No.	Order Code	1+	25+	50+	100+	250+
14	TR14ADCR	118-8275●	3.10	2.68	2.46	2.27	2.03
16	TR16ADCR	118-8277●	3.14	2.71	2.47	2.32	2.03

Trident Connector Crimp Contacts
Stamped and Formed

Socket contact Pin contact

- Two-piece stamped and formed construction
 - Tin or gold flash plating options
 - 13A standard brass material
 - Fit all Trident connectors
- | | | | |
|-----------------|---------------------|---------------------|---------------------|
| Mfrs. List Nos: | T2P24MC1LT=118-8299 | T2P20FC1LT=118-8304 | T2P14MC1LZ=118-8294 |
| | T2P20MC1LT=118-8300 | T2P16FC1LT=118-8305 | T2P24FC1LZ=118-8295 |
| | T2P16MC1LT=118-8301 | T2P14FC1LT=118-8307 | T2P20FC1LZ=118-8296 |
| | T2P14MC1LT=118-8302 | T2P20MC1LZ=118-8297 | T2P16FC1LZ=118-8297 |
| | T2P24FC1LT=118-8303 | T2P16MC1LZ=118-8293 | T2P14FC1LZ=118-8298 |
- 231019

Order Multiple=10		Price Each				
Wire Size	Order Code	10+	50+	100+	500+	1K+
Standard Tin Plated Pins						
26 - 24AWG	118-8299●	0.171	0.147	0.139	0.130	0.115
22 - 20AWG	118-8300●	0.174	0.149	0.141	0.132	0.117
18 - 16AWG	118-8301●	0.176	0.151	0.143	0.133	0.118
16 - 14AWG	118-8302●	0.174	0.149	0.141	0.132	0.117
Standard Tin Plated Sockets						
26 - 24AWG	118-8303●	0.161	0.137	0.130	0.117	0.103
22 - 20AWG	118-8304●	0.161	0.137	0.130	0.117	0.103
18 - 16AWG	118-8305●	0.161	0.137	0.130	0.117	0.103
16 - 14AWG	118-8307●	0.161	0.137	0.130	0.117	0.103
Standard Gold Plated Pins						
26 - 24AWG	118-8292●	0.174	0.149	0.141	0.132	0.117
22 - 20AWG	118-8296●	0.174	0.149	0.141	0.132	0.117
18 - 16AWG	118-8293●	0.174	0.149	0.141	0.132	0.117
16 - 14AWG	118-8294●	0.174	0.149	0.141	0.132	0.117
Standard Gold Plated Sockets						
26 - 24AWG	118-8295●	0.174	0.149	0.141	0.132	0.117
22 - 20AWG	118-8296●	0.174	0.149	0.141	0.132	0.117
18 - 16AWG	118-8297●	0.174	0.149	0.141	0.132	0.117
16 - 14AWG	118-8298●	0.174	0.149	0.141	0.132	0.117

Trident Connector Crimp Contacts
Solid Machined

Socket contact Pin contact

- Gold plated one-piece machined construction
 - 13A standard brass material
 - High performance and durability
 - Fit all Trident connectors
- | | | | |
|-----------------|---------------------|---------------------|---------------------|
| Mfrs. List Nos: | T3P26MC1LX=118-6768 | T3P16MC1LX=118-6773 | T3P22FC1LX=118-6776 |
| | T3P24MC1LX=118-6769 | T3P26FC1LX=118-6774 | T3P20FC1LX=118-6777 |
| | T3P22MC1LX=118-6770 | T3P24FC1LX=118-6775 | T3P16FC1LX=118-6778 |
| | T3P20MC1LX=118-6771 | | |
- 231029

Order Multiple=10			Price Each				
Wire Size	Colour	Order Code	10+	50+	100+	500+	1K+
Pins							
26AWG	Black	118-6768●	0.290	0.250	0.220	0.200	0.195
24AWG	Blue	118-6769●	0.290	0.250	0.220	0.200	0.195
22AWG	Red	118-6770●	0.290	0.250	0.220	0.200	0.195
20AWG	Green	118-6771●	0.290	0.250	0.220	0.200	0.195
AWG16	Black	118-6773●	0.290	0.250	0.220	0.200	0.195
Sockets							
26AWG	Black	118-6774●	0.290	0.250	0.220	0.200	0.195
24AWG	Blue	118-6775●	0.290	0.250	0.220	0.200	0.195
22AWG	Red	118-6776●	0.290	0.250	0.220	0.200	0.195
20AWG	Green	118-6777●	0.290	0.250	0.220	0.200	0.195
16AWG	Black	118-6778●	0.290	0.250	0.220	0.200	0.195

Trident Connector Solder Cup Contacts



- Tin or gold flash plating options
- 13A standard brass material
- Ideal for low volume and prototype applications
- Fit all Trident connectors

Current rating	13	Body material	Brass
Contact resistance	5mohm	Mating cycles	500
Mfrs. List Nos:	T3P16MS1LT=118-6780	T3P16FS1LY=118-6781	
	T3P16FS1LT=118-6779	T3P16MS1LY=118-6782	

231031

Order Multiple=10		Price Each				
Order Code		10 +	50 +	100 +	500 +	1K +
Tin Plated Pins						
118-6779●		0.66	0.58	0.54	0.50	0.45
Tin Plated Sockets						
118-6780●		0.56	0.49	0.46	0.43	0.38
Gold Plated Pins						
118-6782●		0.67	0.58	0.55	0.52	0.45
Gold Plated Sockets						
118-6781●		0.79	0.68	0.63	0.58	0.53

Trident TNM Connector Power Contacts



Socket contact Pin contact

Current rating	13	Body material	Copper Alloy	
Contact resistance	2.5mΩ	Mating cycles	200	
Mfrs. List Nos:	192990-9610	118-8308	192990-9620	118-8310
	192990-9640	118-8309	192990-9650	118-8311

Order Multiple=10		Price Each				
Wire Size	Order Code	10+	50+	100+	500+	1K+
Pins						
16 - 14AWG	118-8308●	0.193	0.178	0.159	0.152	0.142
14 - 12AWG	118-8310●	0.240	0.198	0.197	0.181	0.173
Sockets						
16 - 14AWG	118-8309●	0.124	0.114	0.105	0.095	0.087
14 - 12AWG	118-8311●	0.150	0.126	0.117	0.104	0.091



ITT
Engineered for life

- 231035



SOURIAU
Connection Technologies



Current size	400 gals. (1,600 l)		400 gals. (1,600 l)	
Rated voltage	200 V	200 V	200 V	200 V
Overvoltage category	III	III	III	III
Pollution degree	2	2	2	2
Size 10				
	30A	30A	30A	30A
	10 positions	10 positions	10 positions	10 positions
Number of contacts	10 (20 positions)	10 (20 positions)	10 (20 positions)	10 (20 positions)
Size 12				
	40A	40A	40A	40A
	12 positions	12 positions	12 positions	12 positions
Number of contacts	12 (24 positions)	12 (24 positions)	12 (24 positions)	12 (24 positions)
Max current per contact	10A (20 positions + common)	10A (20 positions + common)	10A (20 positions + common)	10A (20 positions + common)
Size 14				
	50A	50A	50A	50A
	14 positions	14 positions	14 positions	14 positions
Number of contacts	14 (28 positions)	14 (28 positions)	14 (28 positions)	14 (28 positions)

- 442603

SOURIAU
Connection Technology



- 442755

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	25+	100+	250+
Socket Housing - Accepts Socket Contacts							
7 (6+G)	14	UTS6JC147S	120-8048 ●	7.44	6.67	6.02	5.64
12	14	UTS6JC1412S	120-8049 ●	7.44	6.67	6.02	5.64
19	14	UTS6JC1419S	120-8050 ●	8.34	7.47	6.61	6.20
Dustcaps							
	10	UTS610DCG	120-8054 ●	3.24	2.98	2.71	2.55
	12	UTS612DCG	120-8055 ●	4.76	4.39	4.00	3.76
	14	UTS614DCG	120-8056 ●	4.92	4.52	4.12	3.88

SOURIAU
Connection Technology



- 442604

No. of Ways	Shell Size	Mfrs. List No.	Order Code	Price Each			
				1+	25+	100+	250+
Pin Housing - Accepts Pin Contacts							
3 (2+G)	10	UTS7103P	120-8011●	4.76	4.39	3.97	3.73
4	10	UTS7104P	120-8012●	4.76	4.39	3.97	3.73
6	10	UTS7106P	120-8013●	3.97	3.52	3.08	2.98
4 (3+G)	12	UTS7124P	120-8014●	3.30	3.03	2.75	2.58
8	12	UTS7128P	120-8015●	4.83	4.44	4.04	3.81
10	12	UTS71210P	120-8016●	5.74	5.14	4.57	4.35
7 (6+G)	14	UTS7147P	120-8017●	4.91	4.49	4.06	3.83
12	14	UTS71412P	120-8018●	4.91	4.49	4.06	3.83
19	14	UTS71419P	120-8021●	5.82	5.21	4.64	4.41
Socket Housing - Accepts Socket Contacts							
3 (2+G)	10	UTS7103S	120-8022●	3.34	3.07	2.79	2.61
4	10	UTS7104S	120-8023●	4.76	4.39	3.97	3.73
6	10	UTS7106S	120-8024●	5.67	5.02	4.40	4.26
4 (3+G)	12	UTS7124S	120-8025●	3.51	3.23	2.94	2.76
8	12	UTS7128S	120-8026●	4.83	4.44	4.04	3.81
10	12	UTS71210S	120-8027●	5.74	5.14	4.57	4.35
7 (6+G)	14	UTS7147S	120-8028●	4.91	4.49	4.06	3.83
12	14	UTS71412S	120-8029●	4.91	4.49	4.06	3.83
19	19	UTS71419S	120-8030●	5.82	5.21	4.64	4.41
Dustcaps							
	10	UTS10DCG	120-8051●	2.48	2.29	2.13	2.08
	12	UTS12DCG	120-8052●	2.68	2.46	2.30	2.16
	14	UTS14DCG	120-8053●	2.74	2.52	2.36	2.22

SOURIAL
Connected Technology



Order Multiple=5				Price Each			
Colour	Shell Size	Mftrs. List No.	Order Code	5+	25+	100+	250+
Receptacle Coding Ring							
Red	10	UTS710CCR	120-8058	0.220	0.198	0.189	0.182
Green	10	UTS710CCR	120-8059	0.220	0.198	0.189	0.182
Yellow	10	UTS710CCR	120-8060	0.220	0.198	0.189	0.182
Red	12	UTS712CCR	120-8061	0.220	0.198	0.189	0.182
Green	12	UTS712CCR	120-8062	0.340	0.310	0.300	0.280
Yellow	12	UTS712CCR	120-8063	0.220	0.198	0.189	0.182
Red	14	UTS714CCR	120-8064	0.220	0.198	0.189	0.182
Green	14	UTS714CCR	120-8065	0.220	0.198	0.189	0.182
Yellow	14	UTS714CCR	120-8066	0.220	0.198	0.189	0.182
Plug Coding Ring							
Red	10	UTS610CCR	120-8067	0.220	0.198	0.189	0.182
Green	10	UTS610CCR	120-8069	0.220	0.198	0.189	0.182
Yellow	10	UTS610CCR	120-8071	0.220	0.198	0.189	0.182
Red	12	UTS612CCR	120-8072	0.240	0.210	0.200	0.196
Green	12	UTS612CCR	120-8073	0.340	0.310	0.300	0.280
Yellow	12	UTS612CCR	120-8074	0.220	0.198	0.189	0.182
Red	14	UTS614CCR	120-8075	0.220	0.198	0.189	0.182
Green	14	UTS614CCR	120-8076	0.220	0.198	0.189	0.182
Yellow	14	UTS614CCR	120-8077	0.220	0.198	0.189	0.182

Farnell

Metalok Bantam EMC Shielded System

Crimp 4 to 48 Way, 13A



- Immediate EMC solution for new designs
- Instant retrofit for existing Metalok Bantam users, to meet EMC requirements
- 360 degrees electrical continuity for grounding
- Ease of assembly
- IP65 rating when O ring fitted

Contact rating See contact specs
 Operating voltage 750 Vrms
 Insulation resistance 5000 mΩ min.
 Operating temperature -25°C to +125°C
 Housing (Body) Glass Filled Polyester UL94V-0
 (Plating) Nickel plating to the outside of connector body and bayonet ring

209180

Free Housing



209145

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	25+	50+	100+	500+
Pin Housing - Accepts Pin Contacts								
4	10	UTGS6PG104PN	748-456 ●	21.72	18.05	16.25	14.41	13.12
8	12	UTGS6PG128PN	748-468 ●	22.05	18.38	16.52	14.67	13.36
12	14	UTGS6PG1412PN	748-470 ●	22.31	18.93	17.02	15.15	13.78
19	16	UTGS6PG1619PN	748-481 ●	22.42	20.04	18.03	16.01	14.59
28	20	UTGS6PG2028PN	748-500 ●	34.12	30.39	27.34	24.28	22.56
Socket Housing - Accepts Socket Contacts								
4	10	UTGS6PG104SN	748-535 ●	21.72	18.05	16.25	14.41	13.12
8	12	UTGS6PG128SN	748-547 ●	22.05	18.38	16.52	14.67	13.36
12	14	UTGS6PG1412SN	748-559 ●	22.09	18.81	16.90	15.04	13.68
19	16	UTGS6PG1619SN	748-560 ●	22.42	20.04	18.03	16.01	14.59
23	18	UTGS6PG1823SN	748-572 ●	22.95	21.08	18.96	16.83	15.33
28	20	UTGS6PG2028SN	748-584 ●	18.71	17.35	15.62	13.87	12.62
48	24	UTGS6PG2448SN	748-602 ●	31.62	29.10	27.83	26.57	24.17

Panel Housing



219719

ORDER CONTACTS SEPARATELY SEE WEBSITE

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	25+	50+	100+	500+
Pin Housing - Accepts Pin Contacts								
4	10	UTGS0104PN	748-614 ●	8.55	7.38	6.60	6.24	5.64
8	12	UTGS0128PN	748-626 ●	8.96	8.29	7.44	6.65	6.00
12	14	UTGS01412PN	748-638 ●	9.06	8.40	7.57	6.71	6.12
19	16	UTGS01619PN	748-640 ●	9.77	9.03	8.14	7.23	6.60
23	18	UTGS01823PN	748-651 ●	9.99	9.28	8.33	7.42	6.74
28	20	UTGS02028PN	748-663 ●	10.00	8.16	7.31	6.92	6.26
48	24	UTGS02448PN	748-687 ●	12.15	11.28	10.15	9.01	8.18
Socket Housing - Accepts Socket Contacts								
4	10	UTGS0104SN	748-699 ●	8.55	7.91	7.14	6.31	5.75
8	12	UTGS0128SN	748-705 ●	8.96	8.29	7.44	6.65	6.00
12	14	UTGS01412SN	748-717 ●	9.14	8.48	7.63	6.77	6.17
19	16	UTGS01619SN	748-729 ●	9.77	9.03	8.14	7.23	6.60
23	18	UTGS01823SN	748-730 ●	7.64	6.89	6.20	5.51	5.01
28	20	UTGS02028SN	748-742 ●	10.00	8.16	7.31	6.92	6.26

'Metalok Bantam' Crimp 3 to 48 Way, 13A

IP65 Sealed



Circular plastic connector shells with 5 polarising keyways and a snap-locking bayonet ring. The housings can accept either machined, two-piece or coaxial contacts as a pin or socket insert. IP65 sealing can be achieved with the environmental hood and 'O' ring panel seal. The range is UL Recognised and the 3 and 7 way also have VDE approval

Note: The 3 & 4 and 7 & 23 way options within this range occupy the same shell size, therefore when ordering accessories such as 'O' ring seals, dust caps and cable strain reliefs the shell size is common to both, i.e. 10 and 18 respectively.

Contact rating See contact specs
 Operating voltage 750V rms
 Insulation resistance 5000 MΩ min.
 Temperature range -55°C to +125°C

Housing Bayonet ring
 Dust cap

BlackGlass Filled Polyester, **UL94V-0**
 Brass, nickel plated
 500 mating cycles
 Copper alloy, Nickel plated

Free Housings, UTG Series



Pin housing

Socket housing

Mfrs. List No. UTG-6/yy/xxzN, UTG-6/yy/xxzNVDE for 3 and 7 ways, where xx= No Of Ways, yy=Shell size and z=P Pin, S Socket

224243

No. of Ways	Shell Size	Order Code	1+	25+	100+	250+	500+
Pin Housing - Accepts Pin Contacts							
3	10	150-619 ●	8.42	6.52	5.86	5.53	5.00
4	10	105-317 ●	8.29	6.41	5.78	5.40	4.89
7	18	105-318 ●	9.65	8.21	7.34	6.58	4.83
8	12	105-319 ●	9.03	6.42	5.78	5.42	4.91
12	14	105-320 ●	8.87	6.44	5.79	5.45	4.92
19	16	105-321 ●	9.58	7.52	6.77	6.37	5.74
23	18	105-322 ●	10.71	8.18	7.24	6.78	6.25
28	20	105-323 ●	13.27	9.31	8.40	7.85	7.14
35	22	105-324 ●	16.84	11.72	10.54	10.19	9.24
48	24	105-325 ●	16.46	11.72	10.54	10.19	9.25
Socket Housing - Accepts Socket Contacts							
3	10	150-621 ●	8.33	6.46	5.80	5.46	4.95
4	10	105-335 ●	8.70	6.41	5.78	5.40	4.89
7	18	105-336 ●	9.59	8.21	7.34	6.96	6.29
8	12	105-337 ●	9.05	6.42	5.78	5.42	4.91
12	14	105-338 ●	9.47	6.44	5.79	5.45	4.92
19	16	105-339 ●	8.61	6.88	6.16	5.83	5.27
23	18	105-340 ●	10.79	8.18	7.24	6.78	6.25
28	20	105-341 ●	13.64	9.31	8.40	7.85	7.14
35	22	105-342 ●	16.84	11.72	10.54	10.19	9.24
48	24	105-343 ●	16.05	11.72	10.54	10.19	9.24

Hoods, UTG Series



AC basic

PG environmental

Both hoods have cable strain relief and the environmental hood also has multiple knockout rubber seals giving protection to IP65.

Mfrs. List No. UTGxx/AC or PG, where xx=Shell size

209083

No. of Ways	Shell Size	Order Code	1+	25+	100+	250+	500+
AC Basic							
3&4	10	105-579 ●	3.46	3.20	3.06	2.92	2.76
8	12	105-581 ●	3.49	3.24	3.11	2.99	2.88
12	14	105-582 ●	3.53	3.18	2.87	2.72	2.48
19	16	105-583 ●	3.81	3.55	3.37	3.23	2.90
7&23	18	105-580 ●	3.91	3.60	3.44	3.32	3.12
28	20	105-585 ●	4.08	3.75	3.59	3.43	3.28
35	22	105-586 ●	5.02	4.61	4.15	3.93	3.44
48	24	105-587 ●	4.75	4.52	4.22	4.00	3.55
PG Environmental							
3&4	10	105-588 ●	6.20	4.61	4.17	3.93	3.54
8	12	105-590 ●	6.37	4.75	4.16	4.02	3.60
12	14	105-591 ●	7.75	5.31	4.73	4.50	4.15
19	16	105-592 ●	7.98	5.53	4.92	4.68	4.32
7&23	18	105-589 ●	8.46	5.69	5.08	4.81	4.46
28	20	105-594 ●	9.39	6.40	5.77	5.41	4.88
35	22	105-595 ●	6.13	5.47	4.29	3.79	3.35
48	24	105-596 ●	10.60	8.18	7.24	6.78	6.25

Panel Housings, UTG Series



Pin housing

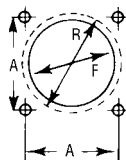
Socket housing

Dust cap



Circular Multipole - continued

Panel Housings, UTG Series - continued



Panel cut-out (dimensions in pricing block)

Mfrs List No. Panel Housings UTG0/yy/xx/zVDE for 3 and 7 ways, where xx = No of Ways, yy = Shell size, and z = P pin, S socket 'O' Ring Panel Seal ORxxSPGE01, where xx = Shell size Dust Cap UTGxxDCG, where xx = Shell size

219769

No. of Ways	Shell Size	Cut-out Dimensions					Price Each			
	A	F	R	Order Code	1+	25+	100+	250+	500+	
Pin Housing - Accepts Pin Contacts										
3	10	18.2	15.1	17.3	150-622●	4.91	3.81	3.40	3.18	2.86
4	10	18.2	15.1	17.3	105-344●	4.88	3.63	3.24	3.06	2.74
7	18	27.0	27.8	31.3	105-345●	5.67	4.64	3.88	3.62	3.31
8	12	20.5	18.2	21.8	105-346●	5.07	3.72	3.34	3.14	2.83
12	14	22.9	21.4	25.0	105-347●	5.14	3.78	3.34	3.19	2.87
19	16	24.5	24.6	28.1	105-348●	5.46	4.29	3.89	3.65	3.26
23	18	27.0	27.8	31.3	105-349●	6.43	4.42	4.00	3.75	3.36
28	20	29.2	30.9	34.5	105-350●	6.49	5.62	5.01	4.75	4.32
35	22	31.6	34.1	37.7	105-351●	7.09	6.27	5.59	5.32	4.92
48	24	34.7	37.3	40.9	105-352●	7.65	6.70	6.07	5.68	5.11
Socket Housing - Accepts Socket Contacts										
3	10	18.2	15.1	17.3	150-620●	4.91	3.81	3.40	3.19	2.87
4	10	18.2	15.1	17.3	105-326●	4.23	3.63	3.24	3.06	2.74
7	18	27.0	27.8	31.3	105-327●	5.27	4.28	3.59	3.36	3.08
8	12	20.5	18.2	21.8	105-328●	4.61	3.72	3.34	3.14	2.83
12	14	22.9	21.4	25.0	105-329●	4.73	3.78	3.34	3.19	2.87
19	16	24.5	24.6	28.1	105-330●	5.02	4.29	3.89	3.65	3.26
23	18	27.0	27.8	31.3	105-331●	5.88	4.42	4.00	3.75	3.36
28	20	29.2	30.9	34.5	105-332●	6.17	5.62	5.01	4.75	4.41
35	22	31.6	34.1	37.7	105-333●	7.16	6.34	5.65	5.37	4.97
48	24	34.7	37.3	40.9	105-334●	7.65	6.70	6.07	5.68	5.14
'O' Ring Seals (5 per pack)						Price Per Pack				
						1+	10+	50+	100+	
8	12				121-2614●	0.64	0.52	0.42	0.34	
12	14				121-2616●	0.69	0.55	0.44	0.34	
7 & 23	18				151-760	1.63	1.36	1.06	0.87	
28	20				121-2617●	1.87	1.55	1.26	1.03	
Dust Cap						Price Each				
						1+	25+	100+	250+	500+
3 & 4	10				257-254●	3.70	3.33	2.74	2.46	2.33
8	12				257-266●	3.84	3.45	2.83	2.64	2.51
12	14				257-278●	4.32	3.48	2.91	2.73	2.57
19	16				257-280●	4.72	3.82	3.11	2.90	2.75
7 & 23	18				257-291●	4.65	4.16	3.41	3.11	2.94
28	20				257-308●	3.55	2.75	2.25	1.99	1.87
35	22				257-310●	4.49	3.47	2.85	2.35	2.32
48	24				257-321●	4.24	3.45	2.81	2.44	2.38

Trim Trio™

UTO Series - IP68 Sealed



Metal circular connector with metal bayonet coupling system.

- Use size 16 contacts
- Suitable for shielding applications
- Available in 8 shell sizes, 4-48 contact arrangements
- Intermateable, interchangeable and in-termountable with TRIM TRIO "UTG" and "UTP" industrial connector families
- IP68 and IP69K sealed
- salt spray 48h
- 500 mating cycles
- RoHS compliant

Contact rating See contact specs
Test Voltage 2000V
Insulation resistance 5000 mΩ min.
Operating temperature -40°C to ++105°C
Housing (Body insert) Glass Filled Thermoplast UL94V-0
Shell Zinc Alloy

419508



40,000 PRICES REDUCED

Free Housing, UTO Series



Pin Housing

Socket Housing

- Uses size 16 contacts
- Order contacts separately

419515

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	25+	100+	250+	500+
Pin Housing - Accepts Pin Contacts								
4	10	UT06104PH	100-7205●	17.18	12.38	11.13	10.55	9.72
8	12	UT06128PH	100-7206●	17.52	12.64	11.33	10.74	9.91
12	14	UT061412PH	100-7207●	17.71	12.75	11.44	10.86	10.02
19	16	UT061619PH	100-7209●	17.79	12.82	11.50	10.91	10.07
23	18	UT061823PH	100-7211●	18.20	13.11	11.76	11.15	10.29
28	20	UT062028PH	100-7212●	18.42	13.29	11.92	11.30	10.44
35	22	UT062235PH	100-7213●	18.85	13.59	12.22	11.57	10.67
48	24	UT062448PH	100-7214●	13.79	9.95	8.75	8.47	7.80
Socket Housing - Accepts Socket Contacts								
4	10	UT06104SH	100-7197●	17.01	12.27	11.02	10.44	9.62
8	12	UT06128SH	100-7198●	17.37	12.53	11.24	10.66	9.82
12	14	UT061412SH	100-7199●	17.71	12.75	11.44	10.86	10.02
19	16	UT061619SH	100-7200●	17.79	12.82	11.50	10.91	10.07
23	18	UT061823SH	100-7201●	18.20	13.11	11.76	11.15	10.29
28	20	UT062028SH	100-7202●	18.33	13.22	11.86	11.26	10.35
35	22	UT062235SH	100-7203●	18.85	13.59	12.22	11.57	10.67
48	24	UT062448SH	100-7204●	13.75	9.93	8.74	8.45	7.77

Panel Housing, UTO Series



Socket Housing

Pin Housing

- Uses size 16 contacts
- Order contacts separately

419521

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	25+	100+	250+	500+
Pin Housing - Accepts Pin Contacts								
4	10	UT00104PH6	100-7170●	9.89	8.37	7.46	6.95	6.78
8	12	UT00128PH6	100-7171●	10.15	8.59	7.65	7.13	6.97
12	14	UT001412PH6	100-7172●	10.42	8.83	7.87	7.33	7.16
19	16	UT001619PH6	100-7173●	10.71	9.08	8.08	7.55	7.33
23	18	UT001823PH6	100-7174●	11.13	9.44	8.40	7.83	7.62
35	22	UT002235PH6	100-7176●	12.53	10.62	9.47	8.79	8.60
48	24	UT002448PH6	100-7177●	8.53	7.23	6.44	6.01	5.86
Socket Housing - Accepts Socket Contacts								
4	10	UT00104SH6	100-7161●	9.89	8.37	7.46	6.95	6.78
8	12	UT00128SH6	100-7162●	10.25	8.68	7.72	7.20	7.03
12	14	UT001412SH6	100-7163●	10.42	8.83	7.87	7.33	7.16
19	16	UT001619SH6	100-7164●	10.71	9.08	8.08	7.55	7.33
23	18	UT001823SH6	100-7165●	11.13	9.44	8.40	7.83	7.62
28	20	UT002028SH6	100-7167●	12.05	10.21	9.09	8.47	8.26
35	22	UT002235SH6	100-7168●	12.53	10.62	9.47	8.79	8.60
48	24	UT002448SH6	100-7169●	9.11	7.71	6.88	6.41	6.24

Rear Mount Panel Housing, UTO Series

With Jam Nut



Pin Housing



Socket Housing

- Uses size 16 contacts
- Order contacts separately

419526

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	25+	100+	250+	500+
Pin Housing - Accepts Pin Contacts								
4	10	UT07104PH6	100-7188●	15.82	13.39	11.94	11.12	10.84
12	14	UT071412PH6	100-7190●	16.83	14.27	12.70	11.84	11.55
23	18	UT071823PH6	100-7193●	18.03	15.27	13.59	12.69	12.36
28	20	UT072028PH6	100-7194●	19.52	16.51	14.71	13.71	13.38
48	24	UT072448PH6	100-7196●	13.80	11.69	10.42	9.71	9.47
Socket Housing - Accepts Socket Contacts								
4	10	UT07104SH6	100-7179●	15.82	13.39	11.94	11.12	10.84
8	12	UT07128SH6	100-7181●	16.40	13.89	12.37	11.54	11.24
12	14	UT071412SH6	100-7182●	15.21	12.88	11.50	10.70	10.45
19	16	UT071619SH6	100-7183●	15.74	13.31	11.87	11.07	10.78
23	18	UT071823SH6	100-7184●	11.82	10.02	8.91	8.31	8.10
28	20	UT072028SH6	100-7185●	12.79	10.83	9.65	9.00	8.77
48	24	UT072448SH6	100-7187●	13.80	11.69	10.42	9.71	9.47

Hoods - IP68, UTO & UTOW Series



419544

Shell Size	Clamping Range (mm) Min / Max	Mfrs. List No.	Order Code	1+	25+	100+	250+	500+
IP68								
10	3 - 6	UT010JCS	100-7277●	11.01	10.15	8.58	8.04	7.00
12	6 - 10	UT012JCS	100-7278●	11.63	10.70	9.05	8.50	7.40
14	6 - 10	UT014JCS	100-7279●	11.75	10.83	9.15	8.58	7.50
16	9.5 - 14	UT016JCS	100-7280●	11.54	10.62	8.97	8.43	7.33
18	9.5 - 14	UT018JCS	100-7281●	11.77	10.83	9.15	8.58	7.51
20	11.5 - 18	UT020JCS	100-7283●	16.59	15.25	12.89	12.08	10.55
24	11.5 - 18	UT024JCS	100-7285●	22.49	20.72	17.49	16.39	14.33
IP68 - Large Cable Entry								
10	5 - 8	UT010JCSL	100-7286●	9.07	8.36	7.08	6.62	5.77
12	8 - 12	UT012JCSL	100-7287●	9.59	8.83	7.48	7.01	6.10
14	8 - 12	UT014JCSL	100-7288●	9.68	8.92	7.55	7.08	6.19
16	11.5 - 18	UT016JCSL	100-7289●	11.54	10.62	8.97	8.43	7.33
22	15 - 24	UT022JCSL	100-7292●	17.73	16.33	13.81	12.92	11.28
IP68 - Shielded								
10	4 - 6.5	UT0S10JCS	100-7295●	11.64	10.70	9.05	8.49	7.42
12	7 - 10.5	UT0S12JCS	100-7296●	12.37	11.41	9.62	9.04	7.90
14	7 - 10.5	UT0S14JCS	100-7297●	12.50	11.51	9.71	9.09	7.97
16	10 - 14.5	UT0S16JCS	100-7298●	14.53	13.38	11.32	10.59	9.24
18	10 - 14.5	UT0S18JCS	100-7299●	14.78	13.63	11.52	10.78	9.44
20	13.5 - 18	UT0S20JCS	100-7301●	19.59	18.06	15.23	14.30	12.50
24	13.5 - 18	UT0S24JCS	100-7303●	25.53	23.50	19.85	18.62	16.25
IP68 - Shielded, Large Cable Entry								
10	5 - 8.5	UT0S10JCSL	100-7304●	11.64	10.70	9.05	8.49	7.42
12	8 - 12.5	UT0S12JCSL	100-7305●	12.37	11.41	9.62	9.04	7.90
14	8 - 12.5	UT0S14JCSL	100-7306●	12.50	11.51	9.71	9.09	7.97
16	13.5 - 18	UT0S16JCSL	100-7307●	14.53	13.38	11.32	10.59	9.24
18	13.5 - 18	UT0S18JCSL	100-7308●	14.78	13.63	11.52	10.78	9.44
20	17 - 24	UT0S20JCSL	100-7309●	19.59	18.06	15.23	14.30	12.50
22	17 - 24	UT0S22JCSL	100-7310●	14.55	13.39	11.30	10.60	9.26
24	17 - 24	UT0S24JCSL	100-7311●	17.73	16.32	13.78	12.92	11.27

Hoods with Strain Relief, UTO & UTOW Series



419541

Shell Size	Mfrs. List No.	Order Code	1+	25+	100+	250+	500+
10	UT010AC	100-7267●	10.00	9.22	7.75	7.29	6.38
12	UT012AC	100-7268●	10.61	9.78	8.25	7.74	6.76
14	UT014AC	100-7271●	10.85	10.00	8.45	7.90	6.91
16	UT016AC	100-7272●	9.59	8.83	7.48	7.01	6.10
18	UT018AC	100-7273●	12.21	10.63	9.28	8.93	7.77
20	UT020AC	100-7274●	11.50	10.57	8.93	8.38	7.31
22	UT022AC	100-7275●	15.31	12.84	11.94	11.24	9.46
24	UT024AC	100-7276●	18.60	13.98	12.56	11.88	10.97

Dust Caps, UTO & UTOW Series



419562

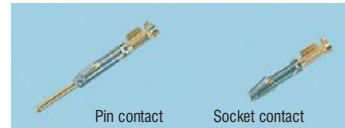
Shell Size	Mfrs. List No.	Order Code	1+	25+	100+	250+	500+
10	UT010DCG	100-7313●	3.55	2.98	2.67	2.48	2.31
12	UT012DCG	100-7314●	3.77	3.17	2.84	2.64	2.46
14	UT014DCG	100-7315●	4.15	3.51	3.12	2.91	2.72
16	UT016DCG	100-7316●	3.16	2.90	2.46	2.31	2.02
18	UT018DCG	100-7317●	4.45	3.72	3.34	3.10	2.87
22	UT022DCG	100-7319●	5.43	4.56	4.09	3.82	3.53

Over 480,000 products online

RoHS Compliant
Non-compliant

08447 11 11 11

Metalok Bantam, Qikmate, UTG, UTO & UTS Contacts



Pin contact

Socket contact

The contacts are two part. The body is made of a highly conductive copper alloy with a stainless steel outer spring in either tin or gold plated options. Gold plated contacts do not oxidise and are therefore more suitable for use in corrosive atmospheres.

Contact rating 13A @ 750Vrms Contacts Copper Alloy, Gold 1.5µ
Insulation resistance 6mΩ max. Copper Alloy, Gold 0.25µ, over nickel 3µ

This also leads to lower contact pressure and are therefore suitable for larger way connectors. Both fit the 'Metalok Bantam', Qikmate', UTG & UTO housings.

Mfrs List No. SM16ML11TK6 = 365-1927, SM24ML1D70 = 365-2087, SC24ML1TK6 = 365-1976
SM24ML1TK6 = 365-1940, SC20ML1D70 = 365-2014, SM20ML1D70 = 365-1990
SC20ML1TK6 = 365-1964, SM20ML1TK6 = 365-1939 SC16ML11D70 = 365-2002
SM16ML11D70 = 365-1988, SC16ML11TK6 = 365-1952 SC24ML1D70 = 365-2099

209358

Wire Size	Order Code	25+	100+	500+	1K+
Tin Plated Pins					
18—16AWG, 0.8—1.5mm ²	365-1927●	0.200	0.176	0.154	0.134
22—20AWG, 0.35—0.5mm ²	365-1939●	0.310	0.200	0.159	0.146
26—24AWG, 0.13—0.25mm ²	365-1940●	0.310	0.200	0.159	0.146
Tin Plated Sockets					
18—16AWG, 0.8—1.5mm ²	365-1952●	0.200	0.176	0.154	0.133
22—20AWG, 0.35—0.5mm ²	365-1964●	0.350	0.270	0.210	0.186
26—24AWG, 0.13—0.25mm ²	365-1976●	0.360	0.270	0.210	0.186
Gold Plated Pins					
18—16AWG, 0.8—1.5mm ²	365-1988●	0.199	0.184	0.155	0.134
22—20AWG, 0.35—0.5mm ²	365-1990●	0.195	0.181	0.151	0.130
26—24AWG, 0.13—0.25mm ²	365-2087●	0.195	0.181	0.151	0.130
Gold Plated Sockets					
18—16AWG, 0.8—1.5mm ²	365-2002●	0.200	0.192	0.161	0.142
22—20AWG, 0.35—0.5mm ²	365-2014●	0.220	0.198	0.169	0.149
26—24AWG, 0.13—0.25mm ²	365-2099●	0.200	0.190	0.158	0.141

Solid Machined Contacts



Socket contact



Pin contact

Gold plated solid machined crimp contacts suitable for heavy duty and high performance applications. The snap-in pins and sockets are colour coded for different wire sizes.

Contact rating 13A @ 750Vrms Contacts Copper Alloy, 0.4µ Gold plated
Contact resistance 3mΩ max.

Mfrs. List No. RM16M23K = 365-2026, RC20M12K = 365-2063,
RC16M23K = 365-2051, RM24M9K = 365-2040
RM20M12K = 365-2038, RC24M9K = 365-2075

209359

Wire size	Order Code	25+	50+	250+	1K+
Pins					
20—16AWG, 0.52—1.5mm ²	365-2026●	0.33	0.31	0.28	0.27
22—20AWG, 0.32—0.52mm ²	365-2038●	0.33	0.31	0.28	0.27
26—24AWG, 0.13—0.2mm ²	365-2040●	0.32	0.30	0.27	0.26
Sockets					
20—16AWG, 0.52—1.5mm ²	365-2051●	0.39	0.38	0.31	0.29
22—20AWG, 0.32—0.52mm ²	365-2063●	0.38	0.37	0.31	0.29
26—24AWG, 0.13—0.2mm ²	365-2075●	0.39	0.38	0.32	0.30

Sub-Miniature Coaxial Contacts



Coaxial pins and sockets are supplied in four piece parts, so that the inner and outer conductors can be crimped individually. Suitable for use with RG178 cable, Order Code 149-071.

Mfrs. List No. RMDXK10D28 = 105-953, RCDXK1D28 = 105-954

219770

Coaxial Kit	Order Code	1+	100+	500+	1K+
Male	105-953●	6.38	4.32	3.89	3.45
Female	105-954●	4.64	3.17	2.81	2.49

Tooling



Two piece contact crimp tool

Machined and coaxial contact crimp tool

Extractor tool



Fax: 08447 11 11 12 1585

Circular Multipole - continued

Tooling - continued

Two high quality metal ratchet hand crimp tools. The machined and coaxial contact crimp tool requires a positioner for each contact. Coaxial contacts require both an inner and outer positioner.

Crimp Tool Settings

Coaxial Contact		Machined Contact				
Inner	Outer	16AWG	20AWG	22AWG	24AWG	26AWG
1	8	8	6/7	5/7	6	5

Mfrs. List No. Y16SCM2 = 105-497, MH MH86-166 = 105-993, MH860 = 105-992, MH MH86-167 = 105-994, MH MH86-164G = 151-779, RX2025GE1 = 105-498

209361

	Order Code	Price Each
Crimp Tools		
Two piece contact	105-497	273.53
Machined & coaxial contacts	105-992	346.99
Positioners		
Machined contact	151-779	64.04
Coaxial, inner	105-993	60.79
Coaxial, outer	105-994	60.79
Extraction Tool		
For all contacts	105-498	36.14

Plastic UTP Connector

- Designed to be interchangeable with the 'Metalok Bantam' range.
- Contacts, Hoods, 'O' ring seals, dust caps, layouts and mounting dimensions are common to both ranges.
- Polyester UL94V-0 construction.

Contact rating See contact specs
Operating voltage 750V rms
Insulation resistance 5000mΩ min.
Temperature range -25°C to +125°C
Housing Black Polyester UL94V-0
Bayonet ring Black Polyester UL94V-0

209117

Free Housings, UTP Series



Pin housing

Socket housing

Mfrs. List No. UTP/6/yy/xx/z, where xx=no. of ways, yy=shell size, Z=P, Pin, S, Socket

224244

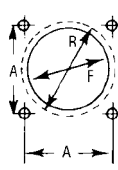
No. of Ways	Shell Size	Order Code	1+	25+	Price Each	100+	250+	500+
Pin Housing - Accepts Pin Contacts								
4	10	535-280●	7.47	5.61	5.02	4.76	4.39	
8	12	535-291●	6.43	5.88	5.09	4.46	4.07	
12	14	535-308●	6.53	5.95	5.13	4.51	4.11	
19	16	535-310●	6.54	5.98	5.15	4.55	4.14	
23	18	535-321●	6.62	6.00	5.19	4.61	4.16	
28	20	535-333●	6.65	6.01	5.21	4.64	4.20	
35	22	535-345●	4.78	4.37	3.77	3.32	3.02	
48	24	535-357●	7.00	6.38	5.52	4.86	4.41	
Socket Housing - Accepts Socket Contacts								
8	12	535-370●	6.43	5.88	5.09	4.46	4.07	
12	14	535-382●	6.53	5.95	5.13	4.51	4.11	
28	20	535-412●	6.65	6.01	5.21	4.64	4.20	
35	22	535-424●	6.84	6.25	5.41	4.75	4.33	

Panel Housings, UTP Series



Pin housing

Socket housing



Panel cut-out (dimensions in pricing block)

Mfrs. list No. UTP0/yy/xx/z where xx=No. of ways, yy=Shell size and z= P Pin or S Socket

224245

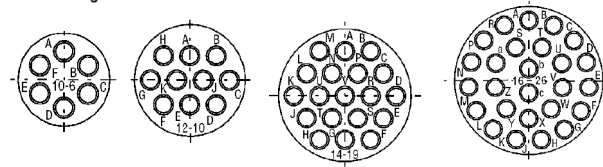
No. of Ways	Shell Size	Cut-out Dimensions			Order Code	Price Each				
		A	F	R		1+	25+	100+	250+	500+
Pin Housing - Accepts Pin Contacts										
4	10	18.2	15.1	17.3	535-448●	3.91	2.90	2.52	2.38	2.16
8	12	20.5	18.2	21.8	535-450●	4.00	3.40	2.95	2.75	2.52
12	14	22.9	21.4	25.0	535-461●	4.22	3.85	3.33	2.92	2.67
19	16	24.5	24.6	28.1	535-473●	2.83	2.57	2.23	1.98	1.78
28	20	29.2	30.9	34.5	535-497●	5.40	4.84	4.24	3.73	3.40
Socket Housing - Accepts Socket Contacts										
4	10	18.2	15.1	17.3	535-527●	3.24	2.76	2.46	2.29	2.11
8	12	20.5	18.2	21.8	535-539●	4.00	3.40	2.95	2.75	2.52
12	14	22.9	21.4	25.0	535-540●	4.22	3.85	3.33	2.92	2.67
19	16	24.5	24.6	28.1	535-552●	4.30	3.93	3.42	3.02	2.71
23	18	27.0	27.8	31.3	535-564●	5.13	3.65	3.26	3.08	2.76
28	20	29.2	30.9	34.5	535-576●	5.40	4.84	4.24	3.73	3.40

'Sealok' Miniature Bayonet Connector

- Intermateable interchangeable and technically comparable with MIL-C-26482 Series 1 military connectors
- Available in four shell sizes and insert arrangements
- Option for sealing to IP65
- Metal bayonet coupling system
- Suitable for wide range of applications

Contact rating See contact specs
Operating voltage 1500V rms
Insulation resistance 500mΩ min.
Temperature range -55°C to +125°C
Durability Housing 500 mating cycles (Body)GF Polyester UL94V-0
Sealing (Coupling) Nickel plated Neoprene Rubber

Insert Arrangements



209191

Free Housing



209187

Hoods	Mfrs. List No.	Order Code	1+	25+	Price Each	100+	250+	500+
AC Basic								
10	UTG10AC	105-579●	3.46	3.20	3.06	2.92	2.76	
12	UTG12AC	105-581●	3.49	3.24	3.11	2.99	2.88	
14	UTG14AC	105-582●	3.53	3.18	2.87	2.72	2.48	
16	UTG16AC	105-583●	3.81	3.55	3.37	3.23	2.90	
PG Environmental								
10	UTG10PG	105-588●	6.20	4.61	4.17	3.93	3.54	
12	UTG12PG	105-590●	6.37	4.75	4.16	4.02	3.60	
14	UTG14PG	105-591●	7.75	5.31	4.73	4.50	4.15	
16	UTG16PG	105-592●	7.98	5.53	4.92	4.68	4.32	

No. Ways	Shell Size	Mfrs. List No.	Order Code	1+	Price Each	25+	50+	100+
Pin Housing - Accept Pin Contacts								
6	10	UTGW6-10-6P-1	890-443●	6.62	6.14	5.52	4.70	
Socket Housing - Accepts Socket Contacts								
10	12	UTGW6-12-10S-1	890-492●	6.52	6.04	5.44	4.84	
19	14	UTGW6-14-19S-1	890-509●	5.38	4.91	4.41	3.98	

Panel Housing



890-534 Pin housing

890-601 Dust Cap

209202

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	25+	50+	100+
Pin Housing - Accepts Pin Contacts							
10	12	UTGW0-12-10P-1	890-534	4.55	4.22	3.81	3.37
Plastic Dust Caps							
10		UTP10DCG	890-601	2.44	2.22	2.01	1.95
12		UTP12DCG	890-613	2.63	2.40	2.16	2.06
14		UTP14DCG	890-625	2.70	2.46	2.23	2.12
16		UTP16DCG	890-637	2.83	2.61	2.30	2.25

Trim Trio™

UTOW Series, High Density - IP68 Sealed



- Identical shells from military connectors comply to MIL-C-26482 series 1
- Use size 20 contacts
- Suitable for EMC requirements
- Available in 8 shell sizes - 6 to 61 contact arrangements
- IP68 and IP69K sealed
- salt spray 48h
- 500 mating cycles
- RoHS compliant

Contact rating	See contact specs	Housing (Body insert)	Glass Filled Thermoplast UL94V-0
Test Voltage	1500V	Shell	Zinc Alloy
Insulation resistance	5000 mΩ min.	Finish	Nickel Plated
Operating temperature	-40°C to + +105°C		

419532

Free Housing, UTOW Series

- Uses UTO series hoods and dust caps
- Uses size 20 contacts
- Order contacts separately

419533

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	25+	100+	250+	500+
Pin Housing - Accepts Pin Contacts								
6	10	UTOW6106PH	100-7259	11.83	8.55	7.66	7.27	6.69
10	12	UTOW61210PH	100-7260	17.52	12.64	11.33	10.74	9.91
19	14	UTOW61419PH	100-7261	12.17	8.77	7.87	7.47	6.89
26	16	UTOW61626PH	100-7262	15.55	13.17	11.73	10.93	10.67
32	18	UTOW61832PH	100-7263	15.91	13.47	12.00	11.19	10.91
55	22	UTOW62255PH	100-7265	11.57	9.80	8.72	8.14	7.94
61	24	UTOW62461PH	100-7266	19.91	16.86	15.03	13.99	13.66
Socket Housing - Accepts Socket Contacts								
10	12	UTOW61210SH	100-7251	20.62	14.86	13.09	12.65	11.67
19	14	UTOW61419SH	100-7252	20.81	15.00	13.21	12.76	11.77
16	16	UTOW61626SH	100-7253	18.25	15.45	13.75	12.83	12.52
41	20	UTOW62041SH	100-7255	18.87	16.00	14.25	13.27	12.95
55	22	UTOW62255SH	100-7256	13.44	11.40	10.14	9.47	9.23
61	24	UTOW62461SH	100-7258	20.41	17.30	15.40	14.35	13.99

Panel Housing, UTOW Series

- Uses size 20 contacts
- Order contacts separately

419534

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	25+	100+	250+	500+
Pin Housing - Accepts Pin Contacts								
6	10	UTOW0106PH6	100-7224	9.89	8.37	7.46	6.95	6.78
10	12	UTOW01210PH6	100-7225	6.72	5.69	5.07	4.73	4.61
19	14	UTOW01419PH6	100-7226	10.42	8.83	7.87	7.33	7.16
26	16	UTOW01626PH6	100-7227	7.02	5.95	5.29	4.94	4.81
55	22	UTOW02255PH6	100-7230	12.53	10.62	9.47	8.79	8.60
61	24	UTOW02461PH6	100-7231	13.03	11.04	9.82	9.17	8.94
Socket Housing - Accepts Socket Contacts								
6	10	UTOW0106SH6	100-7215	8.25	6.99	6.23	5.80	5.66
10	12	UTOW01210SH6	100-7216	12.95	10.97	9.77	9.10	8.89
19	14	UTOW01419SH6	100-7217	13.13	11.12	9.89	9.22	9.00
26	16	UTOW01626SH6	100-7218	9.30	7.89	7.02	6.55	6.39
55	22	UTOW02255SH6	100-7222	10.65	9.02	8.04	7.49	7.30
61	24	UTOW02461SH6	100-7223	15.71	13.30	11.85	11.05	10.78

Rear Mount Panel Housing With Jam Nut, UTOW Series

Socket Housing



Pin Housing

- Uses size 20 contacts
- Order contacts separately

419535

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	25+	100+	250+	500+
Pin Housing - Accepts Pin Contacts								
6	10	UTOW7106PH6	100-7241	15.82	13.39	11.94	11.12	10.84
10	12	UTOW71210PH6	100-7242	10.76	9.11	8.12	7.57	7.38
26	16	UTOW71626PH6	100-7244	11.44	9.69	8.63	8.05	7.84
Socket Housing - Accepts Socket Contacts								
6	10	UTOW7106SH6	100-7232	12.93	10.95	9.76	9.10	8.86
10	12	UTOW71210SH6	100-7234	19.13	16.20	14.42	13.45	13.12
26	16	UTOW71626SH6	100-7236	18.45	15.64	13.93	12.97	12.66

'Sealok', UTOW & UTS Crimp Contacts Size 20, Stamped and Formed

- Two part contact
- Body, gold or tin plated high quality copper alloy, stainless steel outer spring

Contact rating	5A
Contact resistance	9.5mΩ
Contacts	Copper Alloy, 0.5μ Tin alloy Copper Alloy, 0.76μ Gold over 2.0μ Nickel

Mfrs. List No.	SM20WL3TK6 = 365-2348	SC24WL3TK6 = 365-2373	SC20WL3S25 = 365-2403
	SM24WL3TK6 = 365-2350	SM20WL3S26 = 365-2385	SC24WL3S25 = 365-2415
	SC20WL3TK6 = 365-2361	SM24WL3S26 = 365-2397	

209188

Order Multiple=30	Wire Size	Order Code	30+	120+	240+	1K2+
Tin Plated Pins						
22—20AWG, 0.35—0.5mm ²		365-2348	0.200	0.156	0.132	0.113
26—24AWG, 0.13—0.25mm ²		365-2350	0.142	0.120	0.105	0.093
Tin Plated Sockets						
22—20AWG, 0.35—0.5mm ²		365-2361	0.200	0.156	0.138	0.119
26—24AWG, 0.13—0.25mm ²		365-2373	0.142	0.117	0.101	0.088
Gold Plated Pins						
22—20AWG, 0.35—0.5mm ²		365-2385	0.310	0.240	0.198	0.182
26—24AWG, 0.13—0.25mm ²		365-2397	0.310	0.200	0.159	0.146
Gold Plated Sockets						
22—20AWG, 0.35—0.5mm ²		365-2403	0.270	0.220	0.193	0.173
26—24AWG, 0.13—0.25mm ²		365-2415	0.270	0.220	0.193	0.173

Tooling

- A quality ratchet crimp tool
- Integral multi-position die sets, ensures no change in tooling
- Extraction tool available

209189

Mfrs. List No.	Crimp Tool	Order Code	Price Each
Y14MTV	Extraction Tool	892-294	168.84
RX20D44		892-300	65.69

Solid Machined Contacts: Size 20

Socket contact



Pin contact

Gold plated solid machined crimp contacts suitable for heavy duty and high performance applications.

Current rating	7.5A	Contacts	Copper Alloy, 0.4μ Gold plated
Contact resistance	6mΩ max.		
Mfrs. List No.	RM24W3K = 100-7321, RC24W3K = 100-7322,	RM20W3K = 100-7323, RC20W3K = 100-7325,	MH860 = 105-992, MH86301 = 111-0711,

419564

Wire size	Order Code	1+	25+	100+	250+
Pins					
26—24AWG, 0.13—0.25mm ²	100-7321	0.59	0.54	0.48	0.46
22—20AWG, 0.35—0.5mm ²	100-7323	0.67	0.60	0.56	0.50
Sockets					
26—24AWG, 0.13—0.25mm ²	100-7322	0.76	0.68	0.61	0.56
22—20AWG, 0.35—0.5mm ²	100-7325	0.76	0.68	0.61	0.56
Tooling					
Crimp Tool	105-992	346.99			
Positioner	111-0711	81.04			

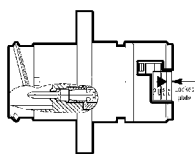


Circular Multipole - continued

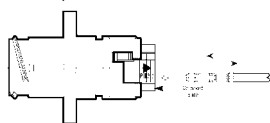
Sealed Connectors 'Clipper'



Retention Plate Principle

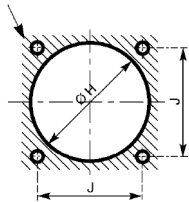


Locked, the retention plate holds the contacts firmly in position.



Unlocked the retention plate allows the insertion/extraction of contacts without tool.

4 holes Ø G



Panel cut-out

Dim. (mm)	Shell sizes			
	1	2	3	4
H	21.5	25	31	41
J	21.4	21.4	28.6	36.5
G	3.2	3.2	3.8	3.8

- Clipper has a monobloc shell and insulator in thermoplastic material self-extinguishing to **UL94V0**.
- Retention plate system allows insertion/extraction of the contacts without the need for tooling.
- Sealed to **IP67/IP68**, new version (with sealing gland backshell).
- 180° screw coupling with positive audible safety catch.
- Supplied complete with O rings and contacts.
- Each connector is supplied with one spare contact.
- Receptacles are also supplied with panel gaskets.
- Cable sockets mate with chassis plugs and in-line plugs
- Cable plugs only mate with chassis sockets

Contact rating	5A(Ø0.1)10A(Ø1.6)	Temperature range	-40°C to +125°C
Contacts	Copper Alloy, Gold Flash	Housing	Thermoplastic
Contact resistance	<10mΩ min.	Wire Size	0.7 to 1.5mm ²
Insulation resistance	≥5000mΩ	Strip length	4mm
Breakdown voltage	1500Vrms	Cable diameter	2 to 3mm

Note ◆ = Ø 1.0 contacts

224246

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	25+	100+	250+	500+
Sealed Square Flange Receptacle - With Pin Contacts								
4	1	CL1M1101UK	535-606	4.95	4.57	4.22	3.89	3.60
◆9	1	CL1M1201UK	749-096	7.06	6.34	5.69	5.13	4.78
9	2	CL1M2101UK	535-618	6.88	6.00	5.38	5.08	4.59
◆14	2	CL1M2201UK	749-102	6.17	5.58	5.00	4.50	4.16
18	3	CL1M3101UK	535-620	9.53	7.70	6.90	6.53	5.92
26	4	CL1M4101UK	535-631	10.19	8.42	7.24	6.70	6.14
◆31	3	CL1M3201UK	749-114	12.27	11.36	10.18	8.92	8.28
Sealed Square Flange Receptacle - With Socket Contacts								
4	1	CL1R1101UK	749-138	6.07	5.13	4.60	4.36	3.94
9	2	CL1R2101UK	749-140	7.40	6.19	5.55	5.24	4.73
18	3	CL1R3101UK	749-151	10.15	8.40	7.53	7.12	6.45
Sealed In-Line Receptacle - With Pin Contacts								
4	1	CL1C1101UK	749-175	5.22	4.04	3.63	3.43	3.11
◆9	1	CL1C1201UK	749-187	5.91	5.30	4.76	4.29	3.98
9	2	CL1C2101UK	749-199	6.42	4.97	4.45	4.22	3.82
◆14	2	CL1C2201UK	749-205	7.12	6.59	5.91	5.17	4.81
18	3	CL1C3101UK	749-217	8.62	6.69	6.00	5.66	5.12
◆31	3	CL1C3201UK	749-229	11.04	10.22	9.20	8.01	7.45
Sealed Free Plug - With Socket Contacts								
4	1	CL1F1101UK	535-643	5.25	4.90	4.48	4.13	3.85
◆9	1	CL1F1201UK	749-254	7.63	6.91	6.19	5.56	5.15
9	2	CL1F2101UK	535-655	7.31	6.56	5.87	5.55	5.03
◆14	2	CL1F2201UK	749-266	9.01	8.20	7.34	6.57	6.10

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	25+	100+	250+	500+
Sealed Free Plug - With Socket Contacts								
18	3	CL1F3101UK	535-667	9.00	8.53	7.65	7.10	6.55
◆31	3	CL1F3201UK	749-278	13.37	12.37	11.10	9.72	9.03
26	4	CL1F4101UK	535-679	11.00	10.70	9.48	8.67	8.00
Sealed Free Plug - With Pin Contacts								
4	1	CL1P1101UK	749-291	6.37	5.53	4.96	4.62	4.24
9	2	CL1P2101UK	749-308	7.63	6.52	5.83	5.52	5.00
18	3	CL1P3101UK	749-310	9.48	7.90	7.08	6.70	6.06
Sealed Free Plug (IP68) - With Socket Contacts								
9	2	CL1F2103UK	749-345	9.60	8.92	8.01	6.99	6.49
18	3	CL1F3103UK	749-357	8.32	7.72	6.95	6.06	5.61
Straight Cable Clamp								
4	1	CL101030	535-680 ●	4.80	4.09	3.46	3.31	2.90
18	3	CL103030	535-709 ●	4.36	3.92	3.46	3.23	2.85
Sealed Straight Back shell for Conduit								
18	3	CL103041	535-746 ●	15.21	13.76	11.89	10.44	9.24
Sealed Anti-decoupling Backshell (IP68)								
4/9	1	CL101021	749-382 ●	3.63	3.34	3.00	2.70	2.39
9/14	2	CL102021	749-394 ●	3.87	3.56	3.22	2.86	2.54
18/31	3	CL103021	749-400 ●	4.69	4.30	3.90	3.47	3.10
26/40	4	CL124021	749-412 ●	6.03	5.05	4.56	4.21	3.86
Sealed Grommet Backshell - For Pin Contacts								
4	1	CL111102	749-424 ●	6.76	5.54	5.01	4.72	4.33
Accessories								
Dust Caps								
4/9	1	CL141001	749-540 ●	5.28	4.46	3.99	3.71	3.52
9/14	2	CL142001	749-552 ●	5.30	4.81	4.34	3.87	3.53
18/31	3	CL143001	749-564 ●	5.38	4.52	4.03	3.76	3.56

Clipper Contacts



- Stamped and formed, crimp contacts
- 1.0mm and 1.6mm

209194

25 Per Pack			Price Per Pack		
Contact Size	Mfrs. List No.	Order Code	1+	5+	10+
Pins					
1.0mm	CF10PC10RF	890-420	5.36	4.45	4.01
1.6mm	CF16PC10RF	890-406	5.22	4.36	3.93
Socket					
1.0mm	CF10SC10RF	890-431	5.68	4.72	4.25
1.6mm	CF16SC10RF	890-418	7.96	6.62	5.68

Crimp Tool - 'Clipper Series'



- One tool for 1.0 and 1.6mm contacts



209171

	Mfrs. List No.	Order Code	Price Each
Hand Crimp Tool	Y16SCMCL3	749-620	185.63

Veam VSC 19 Pin Connectors



ITT's Veam VSC is a threaded coupling multi-pin cylindrical connector series for lighting applications.

Product Features:-

- Sealed to IP67 when mated
- Socapex compatible
- Machined aluminum shells
- Black, hard anodized (non-conductive) finish for scratch and wear resistant surface
- Heavy duty ribbed coupling ring to provide easy manual coupling and uncoupling
- Six circuit identification on front and rear of inserts
- Recessed area in back of Female insert to accept grounding disk
- Seven forward contacts for 'First make, last break' grounding
- Insulating sleeve

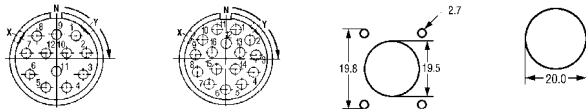
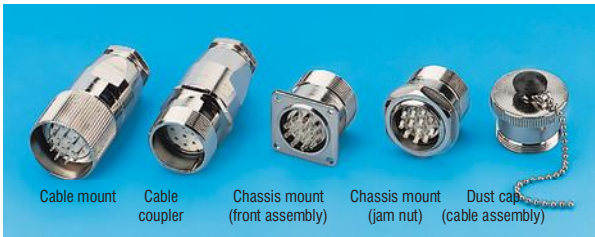
Contact Plating	Contact Material	Current Rating	Voltage Rating	No. of Ways	Operating Temperature
Gold	Copper Alloy	41A max., 25A rated	700 VDC, 500 VAC	19	-55 to 125°C

525624

Description	Mfrs. List No.	Order Code	Price Each				
			1+	10+	25+	50+	100+
Free Plug	VSC06P-S-M40S	164-9936	48.10	45.67	44.14	44.14	44.14
Free Socket	VSC01S-S-M40S	164-9937	40.50	38.76	37.20	37.20	37.20
Panel Mount Plug	VSC26P-S	164-9938	40.50	38.76	37.20	37.20	37.20
Panel Mount Socket	VSC02S-S	164-9939	29.22	27.90	26.75	26.75	26.75

'R' Series 2.5 Circular Connectors

'Clockwise'



- A range of nickel plated circular connectors
 - Solder bucket contacts
 - Complete with EMC spring for full 360° RFI shielding
 - Cable mount and cable coupler are fitted with PG cable gland
 - Chassis mount version available as front assemblies or single through-hole assemblies complete with gasket
 - Clockwise and numbering
 - IP65 rating
- Current rating: 7.5A
Rated voltage: 9 and 12 Way 380Vac
16 Way 250Vac
Withstand voltage: 1.5kV
Insulation resistance: $\leq 10^9 M\Omega$
Contact resistance: $\geq 3m\Omega$
Temperature range: -40°C to +125°C
- Housing: Copper Alloy, Nickel plated
Insulator: Thermoplastic **UL94V-0**
Contacts: Copper Alloy, Silver plated
Wire/conductor dia: 9 Way 6-10mm
12 and 16 Way 8-12mm
9 Way PG9
Thread size: 12 and 16 Way PG11

209230

Cable Mount

'With EMC Spring'



209231

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+	250+
Pin Contacts							
9	8736+00022020	990-5731	12.33	11.91	11.66	10.90	9.82
12	8990+00022030	990-5740	12.40	11.42	10.93	10.30	9.57
16	8883+00022030	990-5758	14.07	13.57	13.30	12.44	11.21
Socket Contacts							
9	8771+00022020	990-5707	12.33	11.91	11.66	10.90	9.82
12	8923+00022030	990-5715	13.31	12.82	12.56	11.77	10.62
16	8722+00022030	990-5723	14.07	13.57	13.30	12.44	11.21

Cable Coupler

'With EMC Spring'



209232

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+	250+
Pin Contacts							
9	9232+00022020	990-5766	12.98	12.53	12.28	11.49	10.35
12	9095+00022030	990-5774	13.33	12.84	12.58	11.79	10.64
16	9684+00022030	990-5782	14.79	14.27	13.99	13.08	11.82
Socket Contacts							
9	8843+00022020	990-5790	12.21	11.37	10.87	10.25	9.58
12	9198+00022030	990-5804	13.33	12.84	12.58	11.79	10.64
16	9143+00022030	990-5812	14.79	14.27	13.99	13.08	11.82

Chassis Mount



209234

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+	250+
Front Assembly with Gasket							
Pin Contacts							
9	8764+20101200	990-5820	12.10	11.67	11.45	10.71	9.66
12	8702+50101200	990-5839	12.91	12.44	12.21	11.96	11.01
16	8701+50101200	990-5847	13.67	13.21	12.92	12.08	10.89
Socket Contacts							
9	8705+50101200	990-5855	12.10	11.67	11.45	10.71	9.66
12	8703+50101200	990-5863	12.91	12.44	12.21	11.96	11.01
16	8707+50101200	990-5871	13.67	13.21	12.92	12.08	10.89
Jam Nut with Sealing Ring							

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+	250+
Pin Contacts							
9	9002+50106202	990-5880	11.97	11.53	11.30	10.62	9.57
12	9159+50106202	990-5898	12.91	12.44	12.21	11.41	10.28
16	8885+50106202	990-5901	10.42	9.89	9.78	9.02	8.13
Socket Contacts							
9	8728+50106202	990-5910	11.97	11.53	11.30	10.62	9.57
12	8727+50106202	990-5928	12.91	12.26	12.11	11.19	10.09
16	8945+50106202	990-5936	10.51	10.14	9.93	9.30	8.38

Accessories



209233

Type	Mfrs. List No.	Order Code	1+	10+	50+	100+	250+
Cable Mount - Dust Cap							
12 & 16 Way - PG11	50.104104	990-5952	7.16	6.68	6.39	6.04	5.66
Cable Coupler - Dust Cap							
Chassis Mount - Dust Cap							
Front assembly	50.101102	990-5979	7.17	6.69	6.41	6.05	5.67
Jam nut	50.106107	990-5987	7.17	6.70	6.40	6.05	5.67
Assembly Tool	50.100800	633-823	16.10	—	—	—	—

EPIC Circon M23



The new Epic Circon M23 connector is a high quality circular connector ideal for signal transmission and servo drive encoder feedback applications in the plastics, printing, analytical instrument, robotic, and machine tool industries, and any other industrial or commercial application where a compact, rugged connector is required. The connectors guarantee an excellent EMC shielding, increased safety against intrusion of water and a clear visible and tangible action when mating.

- Complies to the requirements of **DIN EN 61984**
- Quick and easy to assemble
- Highest protection against vibration, corrosion and EMI
- Protection class **IP68**
- Solder cup contacts available in 7, 8+1, 12 and 17 ways
- Easy and fast labelling of the connector through integrated marking system
- **UL, CSA and VDE** approved

Temperature range	-25°C to 125°C	Mating cycles	100
Protection	IP68 when mated	Housing	Zinc die cast nickel plated
Termination	Solder	Contacts	Brass - Gold plated
Contact Configuration	7 8+1 12 17		
Contact Diameter	2mm 1 & 2mm 1mm 1mm		
Rated Current A	18 20 7 7		
Rated Voltage V AC	150 150 150 50		
Rated Impulse Voltage kV AC	4.0 2.5 2.5 0.8		
Contact Resistance mΩ	<4 <4 <4 <4		

230218

14

Description	Mfrs. List No.	Order Code	1+	10+	50+
Cable Sockets / Plugs - Suitable for cable-to-cable & cable-to-machine applications					
Cable Socket, 7 way	44420037 + 73002752	143-7366	19.72	18.14	16.80
Cable Plug, 8+1 way	44420037 + 73002740	143-7368	15.98	14.70	13.61
Cable Plug, 12 way	44420037 + 73002720	143-7370	17.00	15.64	14.48
Cable Socket, 12 way	44420037 + 73002716	143-7371	16.76	15.42	14.28
Cable Plug, 17 way	44420037 + 73028500	143-7372	18.96	17.44	16.15
Cable Socket, 17 way	44420037 + 73018000	143-7373	18.61	17.12	15.85
Cable Coupler Sockets / Plugs - for cable-to-cable applications					
Cable Coupler Plug, 7 way	44420040 + 73002756	143-7374	18.76	17.26	15.98
Cable Coupler Socket, 8+1 way	44420040 + 73002744	143-7377	14.65	13.48	12.48
Cable Coupler Plug, 12 way	44420040 + 73002720	143-7378	15.48	14.24	13.19
Cable Coupler Socket, 12 way	44420040 + 73002716	143-7381	15.22	14.00	12.96
Cable Coupler Plug, 17 way	44420040 + 73028500	143-7382	17.43	16.04	14.85
Cable Coupler Socket, 17 way	44420040 + 73018000	143-7383	17.07	15.70	14.54
Panel Mount Plugs / Sockets - Inserts can be inserted from the front or rear					
Panel Mount Plug, 7 way	72004000 + 73002756	143-7384	14.39	13.24	12.26
Panel Mount Socket, 7 way	72004000 + 73002752	143-7385	13.78	12.68	11.74
Panel Mount Plug, 8+1 way	72004000 + 73002740	143-7386	10.04	9.24	8.56
Panel Mount Socket, 8+1 way	72004000 + 73002744	143-7387	10.28	9.46	8.76
Panel Mount Plug, 12 way	72004000 + 73002720	143-7388	11.07	10.18	9.43
Panel Mount Socket, 12 way	72004000 + 73002716	143-7389	10.83	9.96	9.22
Panel Mount Plug, 17 way	72004000 + 73028500	143-7390	13.02	11.98	11.09
Panel Mount Socket, 17 way	72004000 + 73018000	143-7391	12.70	11.68	10.81
90° Panel Mount Plugs - Patented swivel mechanism, adjustable orientation in 15° steps over a 330° angle					
90° Panel Mount Plug, 8+1 way	44420055 + 73002740	143-7395	14.09	12.96	12.00
90° Panel Mount Socket, 8+1 way	44420055 + 73002744	143-7396	14.28	13.14	12.17
90° Panel Mount Plug, 12 way	44420055 + 73002720	143-7397	15.11	13.90	12.87
90° Panel Mount Socket, 12 way	44420055 + 73002716	143-7398	14.87	13.68	12.67
90° Panel Mount Plug, 17 way	44420055 + 73028500	143-7399	17.07	15.70	14.54
Dust Caps					
Metal Screw Cap for Panel Mount					
Bases	75018110	143-7401	9.22	8.48	7.85
Metal Screw Cap for Cable Coupler	75018010	143-7402	8.50	7.82	7.24
Plastic Protection Cap for Cable					
Plug / Socket	75007710	143-7363	0.50	0.46	0.43
Plastic Protection Cap for Coupler / Panel mount Base					
Panel mount Base	75007810	143-7364	0.57	0.52	0.48



Circular Multipole - continued

Epic Circon LS1 Series



The new EPIC Circon LS1 power connector has been specifically developed for industrial or commercial applications where a compact, rugged connector is required. The connectors guarantee an excellent EMC shielding, increased safety against intrusion of water and a clear visible and tangible action when mating. The contacts are crimp terminated that guarantees the highest quality whilst at the same time keeps installation costs low.

- Available in 2 different contact configurations 5+PE and 3+PE+4
- Contacts are crimp termination
- Easy and fast labelling of the connector through integrated marking system
- UL, CSA and VDE approved

Current rating 1mm 7A 2mm 22A
Test Voltage / 6kV, AC
Temperature range -25°C to 125°C
Protection IP68 when mated

- Complies to the requirements of DIN EN 61984
 - Highest protection against vibration, corrosion and EMI
 - Protection class IP68
- Termination Crimp
Mating cycles 500
Contacts Brass, gold plated
Seal FPM

386341

No. of Ways	Mfrs. List No.	Order Code	1+	Price Each 10+	50+
Panel Mount Plug					
5+Earth	76003000	860-3057●	14.93	13.88	13.29
4+3+Earth	76004000	860-3065●	17.79	16.32	14.95
Cable Sockets - suitable for cable-to-cable & cable-to-machine					
5+Earth	76123100	860-3014●	31.22	28.65	26.26
4+3+Earth	76124100	860-3022●	29.10	26.71	24.49
Cable Coupler Plugs - for cable-to-cable applications					
5+Earth	76133000	860-3030●	25.32	23.23	21.30
4+3+Earth	76134000	860-3049●	28.22	25.95	24.60
90° Panel Mount Plugs - patented swivel mechanism, adjustable orientation in 15° steps over a 330° angle					
5+PE	44420058	143-7359●	18.57	17.08	15.81
3+PE+4	44420056	143-7360●	21.78	20.04	18.56
Dust Caps					
Metal Screw Cap for Cable Coupler	75018310	143-7362●	8.02	7.36	6.94
Plastic Protection Cap for Cable Sockets	75007710	143-7363●	0.50	0.46	0.43

Epic Circon LS1 Series Tooling



- Tooling for Circon LS1 series crimp contacts

386346

	Order Code	Price Each
Crimp Tool	860-3073	527.23
Locator	860-3081●	57.16

Mini CPC Sealed, 4 and 9 Pole



- Nylon housing offers good resistance to wide range of chemicals
- Easy grip 1/4 turn coupling with positive lock

- Anti vibration lock
- Front or rear jam nut mounting
- Fast coupling and uncoupling
- Sealed to IP67

Material Thermoplastic Working Voltage 600V
Temp Range -55°C to 105°C Mating Cycles 500 - gold plated contacts, 50 - tin plated contacts
Current Rating 7A, with 18AWG wire

335230.343458

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	Price Each 50+	100+	250+
Cable Plug							
4	8	1445390-3	488-9538●	2.050	1.900	1.810	1.720
9	11	1445807-3	488-9563●	2.150	1.990	1.920	1.830
Receptacle - Panel Mounting							
4	8	1445421-3	488-9514●	2.980	2.740	2.640	2.530
9	11	1445816-3	488-9540●	3.170	2.920	2.810	2.690

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	Price Each 50+	100+	250+
Free Receptacle							
4	8	1445389-3	488-9526●	2.210	2.050	1.970	1.870
9	11	1445825-3	488-9551●	2.350	2.180	2.090	1.990
Wire Size				20+	100+	500+	1K+
AWG	mm ²						
Pin Contacts - Gold Plated							
26 - 22	0.12 - 0.3	170363-3	488-9575●	0.300	0.260	0.250	0.240
22 - 18	0.3 - 0.8	170364-3	488-9599●	0.290	0.270	0.250	0.240
Pin Contacts - Tin Plated							
22 - 26	0.12 - 0.35	170363-1	133-760●	0.103	0.091	0.080	0.067
18 - 22	0.3 - 0.8	170364-1	133-772●	0.073	0.069	0.063	0.059
Socket Contacts - Gold Plated							
26 - 22	0.12 - 0.3	170365-3	488-9587●	0.310	0.270	0.260	0.250
22 - 18	0.3 - 0.8	170366-3	488-9605●	0.350	0.330	0.300	0.290
Socket Contacts - Tin Plated							
22 - 26	0.12 - 0.35	170365-1	133-784●	0.103	0.091	0.080	0.067
18 - 22	0.3 - 0.89	170366-1	133-796●	0.103	0.091	0.080	0.067
Order Multiple = 1							
Shell Size				1+	50+	100+	250+
Cable Clamp							
8		1445730-1	488-9617●	1.570	1.460	1.400	1.320
11		1445856-1	488-9629●	1.570	1.460	1.400	1.320
Flange Seal							
8		1445420-1	488-9630●	0.800	0.760	0.730	0.690
11		1445420-2	488-9642●	0.530	0.500	0.480	0.460
Dust Cap							
8		1604089-1	488-9654●	0.580	0.540	0.520	0.490
Jam Nut							
8		1604196-1	488-9678●	0.710	0.670	0.630	0.590
11		1445904-1	488-9680●	0.750	0.700	0.660	0.610
Crimp Tool							
26 - 22		91529-1	433-9873	466.090	--	--	--
Crimp Tool Frame							
18 - 22		354940-1	360-170	61.050	--	--	--
Die Set							
18 - 22		90759-2	421-3841	89.900	--	--	--
Insertion Tool							
		455830-1	962-9645	13.400	--	--	--
Extraction Tool							
		189727-1	165-1092	26.720	--	--	--

14

SDE Die and Tooling options available see Page 1625

Circular Plastic Connectors (CPC)



- Lightweight all plastic construction
- Quick connect/disconnect capability with thread assist, positive detent coupling
- Built in pin and socket protection
- 5 key polarisation for correct mating of connector halves
- Applications include: Automotive, aircraft, instrumentation, computer and peripheral systems
- Three types of connector shells are available, Series 1 for standard density applications, Series 2 for high density and Series 3 for power density applications

Contact rating	Housing	Glass filled nylon 6.6
Series 1	13A	
Series 2	7.5A	
Series 3	25A	
Operating voltage	250Vac/dc	
Insulation resistance	5000MΩ min	
Temperature range	-55°C to +105°C	

209077

Cable Plugs-Series 1



Cable plug for Pin contacts
Cable plug for socket contacts

- Cable plugs accepting either pin or socket contacts
- Suitable for mating with panel or in line housing
- Easy grip coupling
- Course thread
- Anti vibration lock
- Fast coupling and uncoupling

219697

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	50+	100+	250+
Cable Plug - Accepts Pin Contacts							
4	11	182651-1	589-550 ●	3.70	3.41	3.13	2.87
9	17	211768-1	439-1871 ●	4.11	3.00	2.86	2.66
14	17	182649-1	589-561 ●	3.68	3.38	3.21	3.07
24	23	T2310-P24	240-590 ●	3.98	3.68	3.52	3.37
37	23	206305-1	105-6395 ●	7.54	6.89	6.27	5.72
Cable Plug - Accepts Socket Contacts							
4	11	182647-1	589-585 ●	3.40	3.11	2.98	2.86
9	13	182645-1	589-597 ●	3.46	3.19	3.07	2.94
9	17	211766-1	105-6336 ●	3.84	2.81	2.66	2.48
14	17	183039-1	439-1925 ●	3.20	2.43	2.27	2.13
16	17	182642-1	589-603 ●	2.70	2.51	2.39	2.29
24	23	206837-1	589-615 ●	8.15	7.49	6.53	6.34
37	23	206150-1	105-6397 ●	7.26	6.62	5.45	5.25

Contacts-Series 1



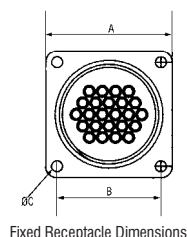
- Tin plated or gold plated crimp contacts suitable for use with the series 1 range of Amp (CPC) Connectors.

Mfrs. List No.	Order Code	Mfrs. List No.	Order Code	Mfrs. List No.	Order Code
1-66103-8	109-8747	1-66360-2	109-8642	66101-4	592-985
1-66099-5	109-8749	66103-4	592-950	66360-1	439-1949
1-66361-2	109-8641	66099-4	592-961	91519-1	962-9416
1-66105-9	109-8751	66361-1	423-4182	91515-1	962-9424
1-66101-9	109-8753	66105-4	592-973	200893-2	962-9661

209326

Order Multiple=10		Price Each	
Wire Size	Order Code	10+	500+
Tin Plated Pins			
24-20 AWG, 0.2-0.6mm ²	109-8747 ●	0.56	0.37
18-16 AWG, 0.8-1.4mm ²	109-8749 ●	0.63	0.41
1.5 - 2.5mm ²	109-8641 ●	0.47	0.31
Tin Plated Sockets			
24-20 AWG, 0.2-0.6mm ²	109-8751 ●	0.71	0.44
18-16 AWG, 0.8-1.4mm ²	109-8753 ●	0.77	0.47
1.5 - 2.5mm ²	109-8642 ●	0.54	0.50
Gold Plated Pins			
24-20 AWG, 0.2-0.6mm ²	592-950 ●	0.90	0.61
18-16 AWG, 0.8-1.4mm ²	592-961 ●	1.03	0.70
Order Multiple=1			
1.5 - 2.5mm ² (pack of 10)	423-4182 ●	6.41	5.23
Order Multiple=10			
Gold Plated Sockets			
24-20 AWG, 0.2-0.6mm ²	592-973 ●	1.21	0.83
18-16 AWG, 0.8-1.4mm ²	592-985 ●	1.16	0.80
1.5 - 2.5mm ²	439-1949 ●	1.34	0.87
Order Multiple=1			
Crimp Tool			
18-14 AWG, 0.8 - 2.1mm ²	962-9416	324.99	
30-22 AWG, 0.05 - 0.6mm ²	962-9424	324.99	
Insertion Tool	962-9661	21.50	

Receptacles-Series 1



- Receptacles accepting either plug or socket contacts
- Available for fixed (bulkhead) or free (in-line) connections

Shell Size	A	B	C	Panel Cut-out Dia.
11	28.6	21.4	3.2	21.3
13	32.5	24.6	3.2	24.9
17	36.5	28.6	3.8	30.7
23	44.5	36.5	3.8	40.9

209271

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	50+	100+	250+
Free Receptacle - Accepts Pin Contacts							
4	11	206153-1	105-6398 ●	5.02	4.57	4.15	4.00
9	13	206705-2	589-640 ●	5.53	5.11	4.63	4.42
9	17	T1720-P09	240-679 ●	3.55	2.95	2.37	2.25
14	17	T1720-P14	240-680 ●	5.22	4.33	3.47	3.32
16	17	206036-3	589-652 ●	4.74	4.33	4.12	3.95
24	23	206838-2	105-6399 ●	5.81	5.38	4.67	4.46
37	23	206151-2	105-6400 ●	5.18	4.77	4.36	4.18
Fixed Receptacle - Accepts Pin Contacts							
4	11	206061-1	589-688 ●	5.18	4.73	4.51	4.31
9	17	211767-1	105-6334 ●	3.47	2.64	2.47	2.36
14	17	183040-1	439-1913 ●	2.39	1.78	1.62	1.48
9	13	206705-1	105-6401 ●	4.63	4.21	3.51	3.38
16	17	206036-1	105-6403 ●	5.10	4.65	3.92	3.78
24	23	206838-1	592-833 ●	6.22	5.73	4.97	4.78
37	23	206151-1	105-6404 ●	5.65	5.18	4.42	4.25
Free Receptacle - Accepts Socket Contacts							
4	11	206430-2	592-857 ●	4.67	4.32	4.13	3.96
9	17	211769-3	439-1895 ●	3.37	2.59	2.49	2.33
14	17	206043-3	105-6406 ●	4.67	4.33	3.99	3.63
24	23	T2320-S24	240-746 ●	3.78	3.15	2.53	2.41
37	23	206306-2...	592-870 ●	4.97	4.01	3.14	2.86
37	23	206306-2	105-6407 ●	5.37	4.96	4.60	4.18
Fixed Receptacle - Accepts Socket Contacts							
4	11	206430-1	592-882 ●	4.75	4.35	4.00	3.65
9	17	211769-1	439-1883 ●	3.53	2.70	2.53	2.40
14	17	206043-1	105-6408 ●	5.55	5.08	4.29	3.98
24	23	T2330-S24	240-849 ●	5.35	4.46	3.91	3.62
37	23	206306-1	105-6409 ●	5.64	5.13	4.83	4.40

CPC Sealed Series 1



- Pre-installed bonded peripheral seal
- IP65 rating with flange and seal
- Uses standard CPC1 contacts

Material and Finish

Housing
SealThermoplastic, UL94V-0, Black
Elastomer, Grey

229512

No. of Ways	Type	Mfrs. List No.	Order Code	1+	Price Each	50+	100+
Flanged Receptacle - Accepts Pin Contacts							
4	Circular	206061-2	105-6091 ●	3.61	3.34	2.89	
Free Receptacle - Accepts pin Contacts							
9	Circular	206705-4	105-6097 ●	4.71	4.36	4.00	
Free Plug - Accepts Socket Contacts							
4	Circular	206060-1	369-2437 ●	4.02	3.28	2.76	
9	Circular	206708-1	369-2449 ●	3.54	2.87	2.34	
16	Circular	206037-1	369-2450 ●	4.27	3.47	2.90	
24	Circular	206837-1	589-615 ●	8.15	7.49	6.53	
37	Circular	206150-1	105-6397 ●	7.26	6.62	5.45	
Flange Seal							
		81665-2	105-6105 ●	0.99	0.93	0.88	

Tools-Series 1



- Extraction and ratchet action crimp tool designed for use with the AMP (CPC) Series 1 range pin and socket contacts.

FOR LOW COST CRIMP TOOL, SEE PRO-CRIMPER, SEE WEBSITE

209026

	Mfrs. List No.	Order Code	Price Each
Crimp Tool	91505-1	435-9215	436.77

Over 480,000 products online



Circular Multipole - continued

Cable Plugs-Series 2



- High density cable plugs accepting either pin or socket contacts

209329

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	50+	100+	250+
Cable Plug - Accepts Pin Contacts							
8	11	206434-1	105-6410●	9.65	7.83	6.24	5.40
28	17	206039-1	105-6411●	12.06	9.70	7.70	6.71
57	23	206437-1	105-6412●	13.28	10.65	8.34	7.25
Cable Plug - Accepts Socket Contacts							
8	11	205838-1	593-047●	10.33	9.50	8.43	7.76
9	11	206485-1	593-059●	11.92	10.85	8.92	8.21
28	17	205839-3	105-6413●	10.44	9.62	8.54	7.86

Contacts-Series 2



- Solder and crimp contacts suitable for use with the Series 2 range of Amp (CPC) connectors.

Mfrs. List No.	66570-3 = 593-187, 66506-9 = 593-217, 1-66506-0 = 593-242,	66569-3 = 593-199, 66505-9 = 593-229, 1-66504-0 = 593-254	66507-9 = 593-205, 66504-9 = 593-230,
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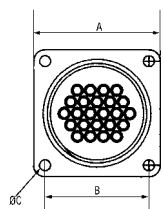
209125

Order Multiple = 10		Price Each		
Wire Size	Order Code	10+	100+	500+
Solder Pins				
0.08-0.09mm ²	593-187●	0.660	0.420	0.350
Solder Sockets				
0.08-0.09mm ²	593-199●	0.620	0.400	0.260
Crimp-Gold Plated Pins				
28-24 AWG, 0.08-0.2mm ²	593-205●	0.250	0.230	0.210
24-20 AWG, 0.2-0.52mm ²	593-217●	0.290	0.230	0.220
Crimp-Gold Plated Sockets				
28-24 AWG, 0.08-0.2mm ²	593-229●	0.400	0.350	0.310
24-20 AWG, 0.2-0.52mm ²	593-230●	0.230	0.220	0.197
Crimp-Gold Flashed Pins				
24-20 AWG, 0.2-0.52mm ²	593-242●	0.119	0.107	0.103
Crimp-Gold Flashed Sockets				
24-20 AWG, 0.2-0.52mm ²	593-254●	0.119	0.107	0.102

Receptacles - Series 2



Fixed Receptacle Dimensions



- High density receptacles accepting either plug or socket contacts
- Available for fixed (bulkhead) or free (in-line) connections

Shell Size	A	B	C	Panel Cut-out Dia.	Shell Size	A	B	C	Panel Cut-out Dia.
11	28.6	21.4	3.2	21.5	23	44.5	36.5	3.8	40.9
17	36.5	28.6	3.8	29.4					

227273

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	50+	100+	250+
Free Receptacle - Accepts Pin Contacts							
9	11	206486-2	593-072●	9.13	8.44	7.33	6.74
28	17	206152-1	105-6415●	8.74	8.06	7.18	6.58
Fixed Receptacle - Accepts Pin Contacts							
8	11	205841-1	593-096●	5.76	5.32	4.54	4.17
9	11	206486-1	593-102●	7.96	7.10	5.72	5.28
28	17	205840-3	105-6416●	8.85	8.18	7.18	6.58
Free Receptacle - Accepts Socket Contacts							
8	11	206433-2	105-6417●	8.52	6.87	5.51	4.77
28	17	206038-2	105-6418●	8.70	7.01	5.60	4.83
57	23	206438-2	105-6419●	17.80	14.23	11.17	9.68
Fixed Receptacle - Accepts Socket Contacts							
8	11	206433-1	593-151●	9.53	7.85	6.14	5.35
28	17	206038-1	105-6420●	9.25	7.48	5.95	5.29
57	23	206438-1	105-6421●	12.19	9.71	7.64	6.66

Tools-Series 2



- Extraction and ratchet action crimp tool designed for use with the AMP (CPC) Series 2 range pin and socket contacts

Note: Pro-Crimper tool is also suitable for AMP (CPC) Series 2 contacts

209364

	Mfrs. List No.	Order Code	1+	5+	10+
Extraction Tool	91067-2	593-266●	7.44	7.30	7.04
Crimp Tool	655044-1	593-278	281.53	--	--

Accessories-Series 1, 2 and 3



Cable Clamp Sealing Cap Peripheral Seal

- A range of cable clamps, caps and seals for use with series 1, 2 and 3 connectors.
- Suitable for dusty or moisture prone environments
- Protection rating IP65

209126

Order Multiple=1		Price Each				
Shell Size	Mfrs. List No.	Order Code	1+	50+	100+	250+
Cable Clamps - Standard Size						
11	182658-1	593-280●	3.22	2.94	2.84	2.72
11	1-206062-6	120-5937●	5.64	4.54	3.92	3.56
13	182663-1	121-4155●	3.47	3.21	2.90	2.74
13	207008-5	105-5993●	2.87	2.30	1.97	1.82
17	182655-1	593-308●	3.90	3.58	3.42	3.27
23	206138-8	120-5938●	4.99	4.21	3.64	3.37
Cable Clamps - Large Size						
11	206358-5	109-8399●	5.22	4.23	3.63	3.36
13	207008-5	105-5993●	2.87	2.30	1.97	1.82
17	206322-9	120-5939●	7.00	5.68	4.80	4.46
23	206512-5	105-5996●	4.58	3.73	3.16	2.96
Sealing Caps (receptacles only)						
11	208800-1	105-6107●	5.00	4.61	4.42	4.23
17	208652-1	593-333●	7.09	6.52	6.24	5.99
23	208680-2	105-6108●	5.24	5.17	5.00	4.72
Order Multiple=10						
Peripheral Seals (receptacles only)						
			10+	50+	100+	250+
11	206403-1	593-357●	0.82	0.80	0.72	0.66
13	206403-4	593-369●	0.86	0.83	0.71	0.65
17	206403-2	593-370●	0.79	0.71	0.68	0.66
23	206403-3	593-382●	1.08	0.99	0.96	0.93

Adaptor Backshells



- Lightweight, robust
- Used with industrial PG threaded plastic or metal cable glands
- Improves sealing to IP65

L=43mm

Mfrs List No	Thread Size	Order Code	Mfrs List No	Thread Size	Order Code
T178GA-PG11	PG11	964-580	T238GA-PG16	PG16	964-608
T178GA-PG13	PG13.5	964-591	T238GA-PG21	PG21	964-610

219736

Order Code	1+	Price Each	100+
964-580●	2.74	2.53	2.43
964-591●	2.88	2.65	2.54
964-608●	7.70	7.10	6.78
964-610●	6.80	6.21	5.86

Cable Plugs - Series 3



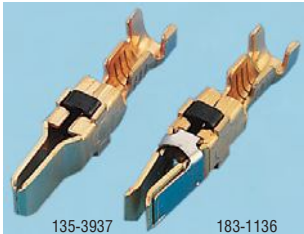
Cable plug for pin contacts
Cable plug for socket contacts

- Power density cable plugs accepting pin or socket contacts

209235

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	Price Each	100+	500+
Cable Plug - Accepts Pin Contacts							
3	17	206426-1	105-6010●	4.89	4.51	4.32	4.13
7	23	206226-1	105-6017●	6.29	5.80	5.58	5.35
Cable Plug - Accepts Socket Contacts							
3	17	206037-2	105-6002●	4.78	4.35	4.17	4.00
7	23	206136-1	105-6015●	4.76	4.39	4.20	4.03

Contacts - Series 3



- Gold plated crimp contacts for use with the Series 3 range of AMP (CPC) connectors

Mfrs. List No.	66261-2 = 135-3937, 66740-6 = 183-1136, 66259-2 = 135-3949, 66741-6 = 145-8899
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209237

Order Multiple = 4	Order Code	4+	Price Each	100+
Gold Plated Pins				
16-12 AWG, 1.3-3.4mm ²	135-3937●	2.66	2.45	2.25
10-8 AWG, 4.5-8.3mm ²	135-3949●	2.50	2.30	2.11
Gold Plated Sockets				
16-12 AWG, 1.3-3.4mm ²	183-1136●	3.05	2.81	2.57
10-8 AWG, 4.5-8.3mm ²	145-8899●	3.05	2.81	2.58

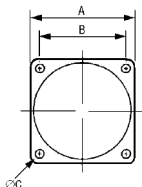
Receptacles - Series 3



Free Receptacles

Square flange receptacles

Fixed Receptacle Dimensions



- Receptacles accepting either plug or socket contacts
- Available for fixed (bulkhead) or free (in-line) connections

Shell Size	A	B	C	Panel Cut-out Dia.
17	36.5	28.6	3.8	29.4

209236

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	Price Each	100+	500+
Free Receptacle - Accepts Pin Contacts							
3	17	206207-1	105-5998●	3.67	3.40	3.24	3.10
Fixed Receptacle - Accepts Pin Contacts							
3	17	206036-2	135-3810●	3.20	2.94	2.87	2.80
7	23	206137-1	105-6012●	3.78	3.50	3.35	3.22
Free Receptacle - Accepts Socket Contacts							
3	17	206425-2	105-6008●	3.74	3.57	3.45	3.28
Fixed Receptacle - Accepts Socket Contacts							
3	17	206425-1	105-6006●	3.31	3.05	2.93	2.83
7	23	206227-1	105-6016●	3.94	3.63	3.48	3.36

Tools - Series 3



- Extraction on and ratchet crimp tool for use with AMP (CPC)
- Series 3 range of pin and socket contacts

209239

Mfrs. List No.	Order Code	Price Each
90382-2	135-3974	395.00
90384-1	135-3986	553.88
91124-1	135-3950●	24.69

CPC-Sealed

Series 5 - Power Contacts



- Use CPC Power Band contacts
- Glass Filled Nylon - UL94V-0 rated

231499

No. of Ways	Type	Mfrs. List No.	Order Code	1+	Price Each	50+	100+
Reverse Sex Connectors							
Receptacle Square Flange							
3	Circular	213889-2	105-6099●	6.83	6.29	5.80	
Receptacle Free Hanging							
3	Circular	213890-2	105-6100●	5.97	5.51	4.72	
Plug Free Hanging							
3	Circular	213905-1	319-5600●	5.76	5.30	5.08	
Cable Clamp Kit							
Std. Max Cab Dia 11.51mm		213902-3	109-8495●	2.48	2.13	1.88	
Lge. Max Cab Dia 17.86mm		213904-3	109-8496●	3.55	2.99	2.57	
Replacement Coupling Ring							
		213810-1	319-5648●	0.53	0.41	0.35	
Flange Seal							
		81665-2	105-6105●	0.99	0.93	0.88	

CPC Sealed

Series 6 - Power and Signal



- Uses x8 Standard CPC 1 contacts and x2 CPC Powerband contacts
- Wire entry seal kits require suitable cable clamp
- IP67 rated
- Glass Filled Nylon - UL94V-0 rated

230660

No. of Ways	Type	Mfrs. List No.	Order Code	1+	Price Each	50+	100+
Reverse Sex Connectors							
Receptacle Square Flange							
10	Circular	213893-2	105-6101●	6.12	5.62	5.06	
Plug Free Hanging							
10	Circular	213906-1	105-6102●	5.82	5.38	4.95	
Wire Entry Seal Kits (fits receptacle and plug)							
		213900-1	105-6103●	2.38	2.21	1.92	
Replacement Coupling Ring							
		213810-1	319-5648●	0.53	0.41	0.35	
Flange Seal							
		81665-2	105-6105●	0.99	0.93	0.88	
Cable Clamp Kit							
Std. Max Cab Dia 11.51mm		213902-3	109-8495●	2.48	2.13	1.88	
Lge. Max Cab Dia 17.86mm		213904-3	109-8496●	3.55	2.99	2.57	

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Circular Multipole - continued

CPC Powerband Contacts
Series 5 and 6

- Precision formed high current contact
- Test current 45 amps max

231708

Pin	Finish	List No.	Order Code	1+	Price Each 50+	100+
12/14AWG	Gold	213845-4	319-5697●	1.55	1.41	1.27
12/14AWG	Silver	213845-3	319-5703●	1.28	1.18	1.13
8/10AWG	Gold	213841-4	319-5715●	1.38	1.26	1.20
8/10AWG	Silver	213841-3	319-5727●	1.13	1.05	1.01
Socket						
12/14AWG	Gold	213847-4	319-5739●	2.42	2.23	2.13
12/14AWG	Silver	213847-3	319-5740●	1.57	1.45	1.39
8/10AWG	Gold	213843-4	319-5752●	2.14	1.98	1.90
8/10AWG	Silver	213843-3	319-5764●	1.57	1.45	1.39
Tooling						
Extraction Tool		318813-1	962-9653	110.07		

CPC Metal-Shell
Series 1 - Std Density

- Uses standard CPC1 contacts
- Available in standard and reverse configurations

Material	Thermoplastic UL94V-0	Current Rating	13A
Finish	Zinc Alloy Nickel plated	Working Voltage	250V
Temp Range	-50°C to 125°C		

231526

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	Price Each 100+	250+
Chassis Plug - Pin Contacts						
7	Circular	208715-1	105-6071●	8.37	7.61	7.34
16	Circular	208489-1	105-6072●	10.09	9.29	8.92
24	Circular	208459-1	105-6073●	12.96	11.93	11.43
37	Circular	208471-1	105-6075●	13.83	12.72	12.17
Cable Socket - Socket Contacts						
7	Circular	208714-1	105-6077●	9.53	8.58	8.15
16	Circular	208488-1	105-6078●	13.48	12.59	12.03
24	Circular	208457-1	105-6079●	14.13	13.16	12.62
37	Circular	208470-1	105-6080●	14.39	13.41	12.84
Reverse Sex Connectors						
Chassis Socket - Socket Contacts						
5	Circular	208721-1	319-5260●	8.16	7.51	7.18
7	Circular	208717-1	105-6081●	7.69	7.09	6.79
14	Circular	208487-1	105-6082●	11.30	10.41	9.96
37	Circular	208473-1	105-6083●	10.97	10.12	9.67
Cable Plug - Pin Contacts						
5	Circular	208720-1	319-5302●	6.59	6.15	5.89
7	Circular	208716-1	105-6084●	8.70	8.11	7.77
14	Circular	208486-1	105-6085●	13.00	12.13	11.58
37	Circular	208472-1	105-6087●	16.61	15.46	14.81
Order Multiple=1				1+		
Crimp Tool						
18-14 AWG, 0.8-2.1mm ²		91519-1	962-9416	324.99		
30-22 AWG, 0.05-0.6mm ²		91515-1	962-9424	324.99		
Insertion Tool						
For all contact		200893-2	962-9661	21.50		

CPC Metal-Shell
Series 1 and 2 Accessories

- For CPC Series 1 and 2 metal connectors
- Cable clamps for cable mounted plugs and sockets
- Dust cap for chassis mounted plugs and sockets

231496

Shell Size	Cable Dia	Mfrs. List No.	Order Code	1+	Price Each 100+	250+
Cable Clamps						
14	7.92-14.27mm	208945-5	319-5429●	6.71	6.48	6.26
22	12.70-19.05mm	208945-7	105-6088●	10.12	9.31	8.92
28	15.88-23.83mm	208945-8	105-6089●	10.07	9.28	8.88

CPC Sealing Accessories



- Sealing caps for receptacles only. Protects exposed contacts of unmated receptacles
- Cable entry seals - Heat shrinkable sealing boots for use with plugs and receptacles
- Jacketed cable seals require large cable clamp
- Rubber boot - Used with jacketed cable to provide splashproof connections

Mfrs. List No.

207445-1=105-6106	208680-2=105-6108	54011-1=105-6109	206304-1=105-6110
208800-1=105-6107			

231498

Sealing Caps	Size	Order Code	1+	Price Each 50+	100+	250+
Plastic Straps						
Series 2	17	105-6106●	3.60	3.34	3.19	3.06
Metal Bead Chain						
Series 1,2	11	105-6107●	5.00	4.61	4.42	4.23
Series 2	23	105-6108●	5.24	5.17	5.00	4.72
Cable Entry Seals						
17	105-6109●	8.79	8.12	7.78	7.46	
Rubber Boot	11	105-6110●	4.43	4.27	4.23	4.04

Circular Connector, 2 & 4 Pole
DIN 72585

- Meets requirement of DIN 72585
- Single wire sealing system
- Cable outlets suitable for conduit attachment
- IP67 rated

Current rating	25A (1.5mm contacts) 30A (2.5mm contacts)	Wire size range	0.5mm ² - 2.5mm ²
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227274

No. of Ways	Mfrs. List No.	Order Code	1+	Price Each 100+	250+	500+
Pin Housing						
2	1-967402-3	345-5646●	2.440	2.220	2.120	2.030
4	1-967402-1	345-5660●	4.700	4.290	4.110	3.940
Socket Housing						
2	1-967325-3	345-5671●	2.450	2.210	2.130	2.050
4	1-967325-1	345-5695●	5.060	4.600	4.410	4.210
Order Multiple=5				5+	100+	250+
Wire Size mm²						500+
Pin Contacts						
0.5-1	929967-1	345-5701●	0.112	0.102	0.098	0.094
1-2.5	929968-1	345-5713●	0.112	0.102	0.098	0.094
Socket Contacts						
0.5-1	929974-1	345-5725●	0.121	0.109	0.104	0.099
1-2.5	929975-1	345-5737●	0.121	0.109	0.104	0.099
Single Wire Seal						
0.5-1	828920-1	345-5749●	0.055	0.047	0.044	0.040
1-2.5	828921-1	345-5750●	0.055	0.047	0.044	0.040
Accessories						
Dead end plug	828922-1	345-5762●	0.063	0.057	0.042	0.035
Mounting ring (pin housing)	965687-1	345-5774●	0.600	0.570	0.540	0.510
Order Multiple=1				1+	100+	250+
Backshell - Straight						500+
With variable clamp	965784-1	345-5786●	0.960	0.900	0.870	0.840
For corrugated conduit NW 8.5	965785-1	345-5798●	1.000	0.940	0.900	0.860
Backshell - 90°						
With variable clamp	965576-1	345-5816●	1.520	1.310	1.200	1.140
For corrugated conduit NW 10	965783-1	345-5830●	1.390	1.310	1.220	1.150
Tooling					1+	
1.5mm Contact						
2.5mm Contact						
Extraction tool	1-1579007-8	129-1662		27.050		
replacement tube	872992-1	345-5889		2.480		



Circular Multipole - MIL-C-26482

MIL-C-26482 Series - Olive
Miniature Bayonet Lock Connectors

The CPT series of miniature bayonet lock connectors are designed to conform to the materials and performance requirements of MIL-C 26482 series 1 specifications. Interchangeability and reliability with other connectors conforming to this specification is assured.

Manufacturers List Number	Order Code	Manufacturers List Number	Order Code
CPT02A10-6P.	483-5499	CPT06E10-6PSR.	483-5657
CPT02A10-7P.	483-5505	CPT06E10-7PSR.	483-5669
CPT02A12-8P.	483-5517	CPT06E12-8PSR.	483-5670
CPT02A12-10P.	483-5529	CPT06E12-10PSR.	483-5682
CPT02A14-12P.	483-5530	CPT06E14-12PSR.	483-5694
CPT02A14-19P.	483-5542	CPT06E14-19PSR.	483-5700
CPT02A16-26P.	483-5554	CPT06E16-26PSR.	483-5712
CPT02A18-32P.	483-5566	CPT06E18-32PSR.	483-5724
CPT02A10-6S.	483-5578	CPT06E10-6SSR.	483-5736
CPT02A10-7S.	483-5580	CPT06E10-7SSR.	483-5748
CPT02A12-8S.	483-5591	CPT06E12-8SSR.	483-5750
CPT02A12-10S.	483-5608	CPT06E12-10SSR.	483-5761
CPT02A14-12S.	483-5610	CPT06E14-12SSR.	483-5773
CPT02A14-19S.	483-5621	CPT06E16-26SSR.	483-5797
CPT02A16-26S.	483-5633	CPT06E16-26SSR.	483-5797
CPT02A18-32S.	483-5645	CPT06E18-32SSR.	483-5803

Specifications

Current Rating
Wire Range
Voltage Rating AC
Voltage Rating DC
Test Voltage AC
Operating Temperature

Size 16 Contacts

13.0A
16 to 20 AWG
600V rms
700V
1500V
-55°C to 125°C

Size 20 Contacts

7.5A
20 to 24 AWG

Materials

Housing
Contacts
Inserts

Aluminium alloy according to QQ-A-591
Copper Alloy, Gold plated over nickel
High insulation synthetic rubber
in accordance with MIL-R-3065

Insulation Resistance

≥ 5 x 10³ MR

335233/406570

Shell Size	No. Contacts	Contact Size	Order Code	1+	10+	Price Each	25+	50+	250+
Plug - Chassis									
10	6	20	483-5499▲	9.93	8.55	8.40	8.22	6.90	
10	7	20	483-5505▲	9.76	8.40	8.24	8.09	6.79	
12	8	20	483-5517▲	10.93	9.45	9.26	9.06	7.62	
12	10	20	483-5529▲	12.20	10.53	10.32	10.09	8.48	
14	8 (+4)	20 (16)	483-5530▲	13.00	11.21	10.99	10.76	9.06	
14	19	20	483-5542▲	16.31	14.06	13.78	13.49	11.33	
16	26	20	483-5554▲	17.88	15.20	15.05	14.52	12.21	
18	32	20	483-5566▲	21.67	18.69	18.31	17.94	15.07	
Socket - Chassis									
10	6	20	483-5578▲	11.23	9.67	9.49	9.29	7.81	
10	7	20	483-5580▲	11.94	10.30	10.09	9.89	8.30	
12	8	20	483-5591▲	13.36	11.53	11.29	11.03	9.29	
12	10	20	483-5608▲	13.64	11.76	11.54	11.28	9.50	
14	8 (+4)	20 (16)	483-5610▲	18.39	15.63	15.47	14.92	12.53	
14	19	20	483-5621▲	22.25	19.18	18.81	18.41	15.48	
16	26	20	483-5633▲	24.44	21.37	21.05	20.41	17.14	
18	32	20	483-5645▲	33.58	28.97	28.40	27.80	23.36	
Plug - Cable									
10	6	20	483-5657▲	20.38	17.58	17.23	16.86	14.19	
10	7	20	483-5669▲	20.32	17.54	17.19	16.83	15.64	
12	8	20	483-5670▲	22.17	19.14	18.75	18.38	16.95	
12	10	20	483-5682▲	23.02	19.56	19.38	18.67	17.25	
14	8 (+4)	20 (16)	483-5694▲	25.87	22.33	21.89	21.42	18.00	
14	19	20	483-5700▲	28.48	24.56	24.08	23.57	19.79	
16	26	20	483-5712▲	30.60	26.39	25.85	25.33	23.64	
18	32	20	483-5724▲	35.81	30.90	30.27	29.66	26.87	

Shell Size	No. Contacts	Contact Size	Order Code	1+	10+	Price Each	25+	50+	250+
Socket, Cable									
10	6	20	483-5736▲	21.87	18.87	18.50	18.11	16.72	
10	7	20	483-5748▲	21.42	18.22	18.03	17.38	16.07	
12	8	20	483-5750▲	23.97	20.69	20.28	19.85	18.36	
12	10	20	483-5761▲	24.88	21.44	21.02	20.59	19.01	
14	8 (+4)	20 (16)	483-5773▲	28.56	24.64	24.14	23.63	22.01	
14	19	20	483-5785▲	32.64	28.16	27.59	27.04	22.71	
16	26	20	483-5797▲	41.71	35.97	35.27	34.52	29.01	
18	32	20	483-5803▲	46.62	40.22	39.42	38.60	32.43	

MIL-C-26482 Series - Nickel
Miniature Bayonet Lock Connectors

The CPT series of Nickel Plated, miniature bayonet lock connectors are designed to conform to the materials and performance requirements of MIL-C 26482 series 1 specifications. Interchangeability and reliability with other connectors conforming to this specification is assured.

Mfrs. List No.	Order Code	Mfrs. List No.	Order Code
CPT02A10-6PN	119-0471	CPT06E12-10PSRN	119-0473
CPT02A10-6SN	483-6789	CPT06E10-6SSRN	119-0474
CPT02A12-10SN	119-0472	CPT06E10-6PSRN	483-6807

Insulation Resistance

≥ 5 x 10³ MR

335234/406571

Shell Size	No. Contacts	Contact Size	Order Code	1+	10+	Price Each	25+	50+	250+
Plug - Chassis									
10	6	20	119-0471●	9.58	8.25	8.10	7.93	6.66	
Socket - Chassis									
10	6	20	483-6789●	12.59	10.85	10.65	10.42	8.75	
12	10	20	119-0472●	10.97	9.46	9.28	9.06	7.64	
Plug - Cable									
10	6	20	483-6807●	15.73	13.57	13.30	13.02	10.95	
12	10	20	119-0473●	17.77	15.33	15.02	14.70	13.57	
Socket - Cable									
10	6	20	119-0474●	21.41	18.48	18.12	17.73	16.37	

62GB Miniature Bayonet Lock Connectors
MIL-C-26482

Amphenol



8-33	10-06	13-03	12-10	14-05	14-19	16-08
Insert Arrangement	Current Rating	Insert Arrangement	Current Rating	Insert Arrangement	Current Rating	Current Rating
08-33	3 x 7.5A	14-19	19 x 7.5A	14-19	19 x 7.5A	19 x 7.5A
10-06	6 x 7.5A	14-22	4 x 20A	14-22	4 x 20A	4 x 20A
12-03	3 x 13A	16-08	8 x 13A	16-08	8 x 13A	8 x 13A
12-10	10 x 7.5A	16-26	26 x 7.5A	16-26	26 x 7.5A	26 x 7.5A
14-02	2 x 20A	18-02	2 x 45A	18-02	2 x 45A	2 x 45A
14-04	4 x 20A	18-32	32 x 7.5A	18-32	32 x 7.5A	32 x 7.5A
14-05	5 x 13A					

A range of miniature bayonet lock connectors designed to meet the requirements of BS9522 F0017 DEF STAN 59-35 Pattern 105 and MIL-C-26482. The connectors are machined from solid aluminium giving maximum strength. Shells are plated in environmentally friendly Olive Drab Zinc Cobalt Finish. Termination is solder.



Circular Multipole - MIL-C-26482 - continued

62GB Miniature Bayonet Lock Connectors - continued

MIL-C-26482 - continued

Current Rating

Maximum current per individual contact in isolation at a maximum ambient temperature of 85°C

Electrical		Mechanical	
Working Voltage DC	700V	Body Material	Aluminium Alloy
Working Voltage AC	500V RMS	Body Plating	Olive Drab Zinc Chromate
Proof Voltage DC or AC Peak	2100V	Contact Material	Brass Gold plated
Contact Resistance	5mΩ	Temp Range	-55°C to 125°C
Insulation Resistance	5000MΩ		

233619

Shell Size	No. Contacts	Contact Size	Mfrs. List No.	Order Code	1+	10+	50+
Panel Mount Receptacle - Pin Contacts							
08-33	3	20	62GB-12E08-33PN	391-1238▲	14.36	13.22	12.49
10-06	6	20	62GB-12E10-06PN	391-1251▲	10.42	9.61	9.18
12-03	3	16	62GB-12E12-03PN	391-1275▲	14.45	13.44	12.86
12-10	10	20	62GB-12E12-10PN	391-1299▲	14.87	13.83	12.99
14-05	5	16	62GB-12E14-05PN	391-1354▲	13.52	12.57	12.03
14-19	19	20	62GB-12E14-19PN	391-1378▲	17.56	16.34	15.63
16-08	8	16	62GB-12E16-08PN	391-1410▲	17.04	15.95	14.86
16-26	26	20	62GB-12E16-26PN	391-1433▲	20.44	16.40	15.92
18-32	32	20	62GB-12E18-32PN	391-1470▲	24.65	20.58	19.39
Panel Mount Receptacle Socket Contacts							
08-33	3	20	62GB-12E08-33SN	391-1240▲	14.18	13.06	12.04
10-06	6	20	62GB-12E10-06SN	391-1263▲	12.88	11.87	11.35
12-03	3	16	62GB-12E12-03SN	391-1287▲	19.14	17.79	16.67
12-10	10	20	62GB-12E12-10SN	391-1305▲	14.92	13.73	13.14
14-05	5	16	62GB-12E14-05SN	391-1366▲	19.59	18.02	17.24
14-19	19	20	62GB-12E14-19SN	391-1380▲	22.56	20.53	19.22
16-08	8	16	62GB-12E16-08SN	391-1421▲	27.68	21.19	18.74
16-26	26	20	62GB-12E16-26SN	391-1445▲	26.02	20.29	18.25
18-32	32	20	62GB-12E18-32SN	391-1482▲	32.21	25.13	24.10
Basic Plug - Pin Contacts							
08-33	3	20	62GB-56T08-33PN	391-1494▲	14.12	13.01	12.43
10-06	6	20	62GB-56T10-06PN	391-1512▲	15.55	14.15	13.53
12-03	3	16	62GB-56T12-03PN	391-1536▲	17.02	15.67	14.99
12-10	10	20	62GB-56T12-10PN	391-1550▲	17.22	15.84	15.17
14-05	5	16	62GB-56T14-05PN	391-1573▲	20.40	18.77	17.95
14-19	19	20	62GB-56T14-19PN	391-1597▲	21.71	19.98	19.12
16-08	8	16	62GB-56T16-08PN	391-1615▲	31.73	24.79	21.57
16-26	26	20	62GB-56T16-26PN	391-1639▲	24.10	22.18	21.23
18-32	32	20	62GB-56T18-32PN	391-1652▲	24.99	20.62	19.40
Basic Plug - Socket Contacts							
08-33	3	20	62GB-56T08-33SN	391-1500▲	14.49	13.35	12.77
10-06	6	20	62GB-56T10-06SN	391-1524▲	15.15	12.71	12.35
12-03	3	16	62GB-56T12-03SN	391-1548▲	23.54	21.67	18.30
12-10	10	20	62GB-56T12-10SN	391-1561▲	19.16	16.06	15.44
14-05	5	16	62GB-56T14-05SN	391-1585▲	22.36	20.57	19.68
14-19	19	20	62GB-56T14-19SN	391-1603▲	26.13	24.05	23.01
16-08	8	16	62GB-56T16-08SN	391-1627▲	49.07	38.28	33.37
16-26	26	20	62GB-56T16-26SN	391-1640▲	32.11	26.61	24.77
18-32	32	20	62GB-56T18-32SN	391-1664▲	32.44	28.96	27.20

62GB High Power

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Spin coupling backshells for use with heatshrink boots and braid should be used with these connectors.

Insert Arrangement	Current Rating	Insert Arrangement	Current Rating
14-02	2 x 20A	18-02	2 x 45A
14-04	4 x 20A	14-22	4 x 20A + 1 x 13A

233733

Insert	Mfrs. List No.	Order Code	1+	10+	50+	100+	500+
Panel Mount Receptacle - Pin Contacts - High Power							
14-02	62GB-12E14-02PN	391-1317▲	17.87	17.50	16.67	16.33	14.58
14-04	62GB-12E14-04PN	391-1330▲	18.73	18.36	17.78	17.41	16.34
18-02	62GB-12E18-02PN	391-1457▲	19.82	18.43	17.64	16.87	16.15
Panel Mount Receptacle Socket Contacts - High Power							
14-02	62GB-12E14-02SN	391-1329▲	22.86	21.27	20.35	19.47	18.64
14-04	62GB-12E14-04SN	391-1342▲	26.65	26.12	25.60	25.08	22.22
18-02	62GB-12E18-02SN	391-1469▲	24.72	23.74	22.11	21.43	20.00
Basic Plug - Pin Contacts - High Power							
14-02	62GB-56TG14-02PN(044)	391-1676▲	23.63	22.23	19.64	18.01	13.58
14-04	62GB-56TG14-04PN(044)	391-1690▲	28.15	26.19	25.06	23.98	19.43
18-02	62GB-56TG18-02PN(044)	391-1731▲	26.02	25.01	21.09	19.36	14.62
Basic Plug - Socket Contacts - High Power							
14-02	62GB-56TG14-02SN(044)	391-1688▲	26.63	20.79	18.14	16.64	12.55
14-04	62GB-56TG14-04SN(044)	391-1706▲	30.16	28.05	25.55	23.45	17.69
18-02	62GB-56TG18-02SN(044)	391-1743▲	36.11	33.51	27.94	26.81	23.22
14-22	62GB-56TG14-22SN(044)	391-1720▲	27.20	25.30	24.22	23.19	17.19

62GB Cable Clamps

- Straight outlet grommet nut with strain relief
- For cable mounted plugs and sockets

233735

Shell Size	Mfrs. List No.	Order Code	1+	10+	50+	100+
Plug Strain Relief						
8-33	62GB-585-08-33P	391-1755▲	13.48	12.41	9.74	9.55
10-06	62GB-585-10-06P	391-1779▲	12.49	11.49	8.73	8.56
12-03	62GB-585-12-03P	391-1792▲	13.24	12.19	9.64	9.47
12-10	62GB-585-12-10P	391-1810▲	13.37	12.30	9.64	9.47
14-05	62GB-585-14-05P	391-1834▲	14.41	12.76	8.30	8.15
14-19	62GB-585-14-19P	391-1858▲	14.54	13.38	10.72	10.52
16-08	62GB-585-16-08P	391-1913▲	19.08	16.88	14.07	13.78
16-26	62GB-585-16-26P	391-1871▲	16.36	15.06	11.78	11.54
18-32	62GB-585-18-32P	391-1895▲	16.09	14.81	11.87	11.63
Socket Strain Relief						
8-33	62GB-585-08-33S	391-1767▲	13.48	12.41	9.74	9.55
10-06	62GB-585-10-06S	391-1780▲	12.80	11.79	8.73	8.56
12-03	62GB-585-12-03S	391-1809▲	13.24	12.19	9.64	9.47
12-10	62GB-585-12-10S	391-1822▲	13.51	12.43	9.83	9.66
14-05	62GB-585-14-05S	391-1846▲	14.41	12.76	8.30	8.15
14-19	62GB-585-14-19S	391-1860▲	15.01	13.83	10.72	10.52
16-08	62GB-585-16-08S	391-1925▲	19.08	16.88	14.07	13.78
16-26	62GB-585-16-26S	391-1883▲	16.36	15.06	11.78	11.54
18-32	62GB-585-18-32S	391-1901▲	16.58	15.25	11.87	11.63

62GB Dust Caps

- For chassis mounted plugs and sockets

233736

Size	Mfrs. List No.	Order Code	1+	10+	50+	100+	500+
8	62GB-812-08	391-1937▲	8.55	7.86	7.10	6.26	5.24
10	62GB-812-10	391-1949▲	8.03	7.32	7.00	6.68	5.82
12	62GB-812-12	391-1950▲	9.62	8.75	8.37	8.02	6.54
14	62GB-812-14	391-1962▲	9.30	8.48	8.11	7.76	6.49
16	62GB-812-16	391-1974▲	9.35	8.51	8.14	7.79	6.97
18	62GB-812-18	391-1986▲	10.19	9.27	8.86	8.48	8.02

Backshells

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Dual purpose spin coupling backshells may be used in conjunction with heatshrink boots and Zeta Lock clock springs to terminate braided cable jacket. The threaded coupling end rotates separately from the body so that cable is not twisted upon removal of backshell from the connector body. The mating interface of these backshells feature anti-rotation teeth and an 'O' ring seal.

- Type 1 fits 62GB, AB05 connectors
- Type 2 fits commercial 5015

233620

Spring Size	Size	Type	Order Code	1+	10+	50+	100+
Type 1 62GB AB05							
1	08	AIA-5001-08	391-2097▲	14.39	14.11	13.83	13.57
1	10	AIA-5001-10	391-2103▲	14.43	13.79	13.34	13.08
1	12	AIA-5001-12	391-2115▲	15.63	14.91	14.44	14.16
2	14	AIA-5001-14	391-2127▲	15.67	14.93	14.46	14.18
2	16	AIA-5001-16	391-2139▲	15.97	15.14	14.69	14.38
3	18	AIA-5001-18	391-2140▲	16.38	15.51	15.05	14.75
Type 2 Commercial 5015							
1	14S	AIA-50L1-14	391-2164▲	15.67	14.71	14.25	13.97
2	20 & 22	AIA-50L1-22	391-2188▲	17.20	16.47	15.99	15.67
Zeta Lock Spring Braid Termination HE							
1	100	HE 100	391-2218▲	3.48	3.42	3.34	3.22
2	200	HE 200	391-2220▲	3.48	3.42	3.34	3.22
3	300	HE 300	391-2231▲	4.23	4.15	4.06	3.99

62IP Series Solder Contacts

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40,000 PRICES REDUCED

Circular Multipole - MIL-C-26482 - continued

MIL-C-26482 Series 1 - continued

Miniature Sealed Connectors - continued

MS3116F22-55P=390-4568	MS3112E12-3S=390-4775	M22520/1-2=390-4830
MS3116F20-41P=390-4581	MS3112E12-10S=390-4799	MS24256A16=390-4842
MS3116F14-19P=390-4600	MS3112E10-6S=390-4817	MS24256A20=390-4854
MS3116F12-10P=390-4647	MS3112E8-4P=390-4684	MS24256R16=390-4866
MS3116F12-10P=390-4647	MS3112E8-3P=390-4702	MS24256R20=390-4878
MS3116F10-6P=390-4660	MS3112E22-55P=390-4726	225-1012-000=119-0517
MS3112E8-4S=390-4672	MS3112E12-3P=390-4787	030-9032-003=119-0518
MS3112E8-3S=390-4696	MS3112E12-10P=390-4805	031-9095-003=119-0521
MS3112E22-55S=390-4714	MS3112E10-6P=390-4829	030-9036-000=119-0522
MS3112E14-19S=390-4751	AF8=890-376	031-9074-002=119-0523

Specification

Current Rating	22A
Wire Range	16 to 20 AWG
Voltage Rating AC	600V rms
Voltage Rating DC	850V
Mating Cycles	500
Operating Temperature	-55°C to 125°C

Materials

Housing	Aluminium Alloy Olive Drab Chromate finish
Contacts	Copper Alloy, Gold MIL-G-45204 plated
Insulator	Neoprene

Approvals

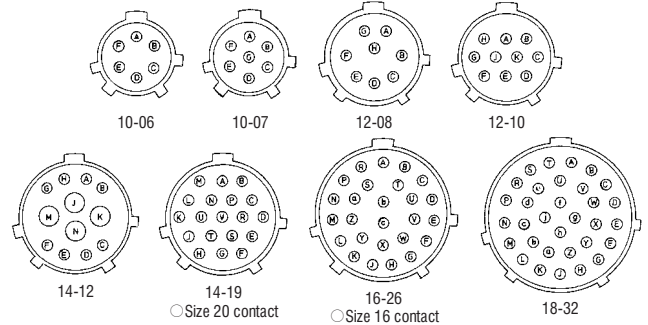
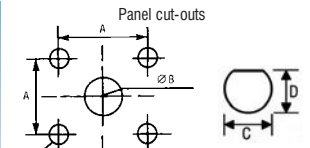
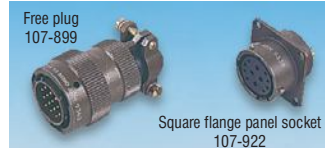
MIL-C-26482 VG 95 328

233516

Shell Size	No. Contacts	Contact Size	Order Code	1+	10+	25+
Straight Plug - Socket Contacts - Crimp						
12	3	16	390-4337▲	32.650	29.110	26.940
10	6	20	390-4374▲	33.710	30.060	27.810
12	10	20	390-4350▲	36.920	32.910	30.440
14	19	20	390-4313▲	29.590	28.980	27.460
20	41	20	390-4295▲	50.740	45.240	41.860
22	55	20	390-4271▲	50.050	44.660	42.720
Straight Plug - Pin Contacts - Crimp						
12	3	16	390-4349▲	34.070	30.380	28.110
10	6	20	390-4386▲	34.170	30.480	28.190
12	10	20	390-4362▲	25.280	22.540	20.850
14	19	20	390-4325▲	29.370	26.210	24.240
20	41	20	390-4301▲	59.720	53.250	49.260
22	55	20	390-4283▲	42.570	40.140	32.930
Panel Mount Receptacle - Socket Contacts - Crimp						
10	6	20	390-4490▲	25.830	23.010	21.290
12	10	20	390-4477▲	27.240	24.320	22.490
14	19	20	390-4430▲	21.450	19.110	17.680
20	41	20	390-4416▲	28.970	28.760	28.020
22	55	20	390-4398▲	48.840	47.850	46.380
Panel Mount Receptacle - Pin Contacts - Crimp						
12	3	16	390-4465▲	23.340	20.840	19.250
10	6	20	390-4507▲	17.910	15.960	14.760
12	10	20	390-4489▲	27.980	24.950	23.070
14	19	20	390-4441▲	32.880	29.330	27.140
20	41	20	390-4428▲	42.630	38.040	24.860
22	55	20	390-4404▲	48.070	42.870	39.640
Straight Plug - Socket Contacts - Solder						
12	3	16	390-4611▲	23.630	22.140	21.390
8	3	20	390-4532▲	24.880	22.190	20.520
8	4	20	390-4519▲	25.440	22.680	20.980
10	6	20	390-4659▲	38.640	34.490	22.530
12	10	20	390-4635▲	24.590	23.640	21.640
14	19	20	390-4593▲	30.500	27.200	25.160
20	41	20	390-4570▲	46.630	41.820	39.110
22	55	20	390-4556▲	52.710	50.310	48.920
Straight Plug - Pin Contacts - Solder						
12	3	16	390-4623▲	20.120	19.710	19.320
8	3	20	390-4544▲	43.040	38.420	25.100
8	4	20	390-4520▲	44.070	39.330	25.720
10	6	20	390-4660▲	37.380	33.360	21.810
12	10	20	390-4647▲	24.900	22.200	20.540
14	19	20	390-4600▲	28.860	25.750	23.790
20	41	20	390-4581▲	39.490	35.400	33.110
22	55	20	390-4568▲	49.490	44.120	40.820
Panel Mount Receptacle - Socket Contacts - Solder						
12	3	16	390-4775▲	25.670	22.900	14.970
8	3	20	390-4696▲	13.050	11.630	10.780
8	4	20	390-4672▲	14.930	13.320	12.310
10	6	20	390-4817▲	13.570	12.090	11.180
12	10	20	390-4799▲	15.440	13.770	12.730
14	19	20	390-4751▲	20.540	18.300	16.940
22	55	20	390-4714▲	73.890	65.930	43.100
Panel Mount Receptacle - Pin Contacts - Solder						
12	3	16	390-4787▲	21.730	19.400	12.680
8	3	20	390-4702▲	22.510	20.110	13.140
8	4	20	390-4684▲	23.570	21.020	13.750
10	6	20	390-4829▲	13.060	11.660	10.790
12	10	20	390-4805▲	14.680	13.090	12.110
22	55	20	390-4726▲	66.310	59.180	38.690
Tools						
Crimp Tool			890-376		254.020	
Positioner			390-4830		104.280	
Insertion Tool Size 16			390-4842		30.240	
Insertion Tool Size 20			390-4854		31.740	
Extraction Tool Size 16			390-4866		36.710	
Extraction Tool Size 20			390-4878		38.620	
Wire Hole Fillers						
Size 20			119-0517●	0.053	0.049	0.043
Crimp Contacts						

Shell Size	No. Contacts	Contact Size	Order Code	1+	10+	25+
Size 16 Pin			119-0518●	0.530	0.500	0.450
Size 16 Socket			119-0521●	1.400	1.310	1.190
Size 20 Pin			119-0522●	0.380	0.360	0.330
Size 20 Socket			119-0523●	0.500	0.470	0.430

Miniature Sealed Bayonet Coupling - Pattern 105



A range of miniature multipole connectors conforming to MIL-C26482 and manufactured to BS9522-F0017 and DEF STAN 59-35 Pattern 105.

The aluminium housings are cadmium plated with an olive colour chromate finish, giving a high resistance to corrosion. A dynamic sealing ring and grommet provide protection against water ingress to IP67 on the free plug.

Gold plated brass contacts make the connectors ideal for signal applications and ensure 500 mating cycles minimum. Positive coupling is indicated by an audible click and alignment of the three bayonet pins. Five key ways on the receptacle also ensure correct polarisation.

Contact rating (fully loaded)	Housing	Aluminium alloy
Size 20 5A @ 700V dc or ac peak	Contacts	Brass, Gold plated
Size 16 10A @ 700V dc or ac peak	Termination	Solder Bucket
Mating cycles 500	Insulator/grommet	Polychloroprene
Contact resistance 5mΩ max.	Wire conductor diameter	
Temperature range -55°C to +125°C		

Free Housings with Cable Clamp			Coupling	Cable Dia.
No. of Ways	Insert Type	Overall Length	Diameter	(max.)
6	Circular	51.33	21.8	5.02
7	Circular	51.33	21.8	5.02
8	Circular	51.33	26.4	8.3
10	Circular	51.33	26.4	8.3
12	Circular	51.33	30	9.77
19	Circular	51.33	30	9.77
26	Circular	53.36	33.3	12.95
32	Circular	56.93	35.6	16.12

Mfrs List No. AB05 6027xyN00, where xx=insert type and y=P-pin or S-socket

Note: Free plugs only mate with panel sockets.
Free sockets only mate with panel plugs.

209362

No. of Ways	Insert Type	Order Code	1+	10+	Price Each			
					25+	50+	100+	
Free Plug - Pin Contacts								
6	Circular	107-894▲	23.85	19.22	18.57	18.20	16.40	
7	Circular	107-895▲	24.24	22.47	18.54	16.95	15.09	
8	Circular	107-896▲	25.16	21.69	20.91	20.50	17.24	
10	Circular	107-897▲	20.74	18.98	18.11	17.36	14.83	
12	Circular	107-898▲	29.66	26.58	22.81	21.35	19.28	
19	Circular	107-899▲	31.24	28.69	25.10	23.85	20.24	
26	Circular	107-900▲	32.28	31.62	28.27	26.31	24.09	
32	Circular	107-901▲	38.94	35.39	32.76	31.14	27.86	
Free Socket - Socket Contacts								
6	Circular	107-902▲	23.89	20.31	18.79	17.86	15.12	
7	Circular	107-903▲	25.18	22.71	20.61	19.15	16.89	
8	Circular	107-904▲	25.01	23.20	21.60	20.67	17.77	
10	Circular	107-905▲	25.81	24.64	23.84	23.35	22.88	
12	Circular	107-906▲	30.10	28.82	26.67	25.37	23.25	
19	Circular	107-907▲	32.82	31.50	29.14	27.70	24.76	
26	Circular	107-908▲	41.61	38.64	35.19	32.82	29.10	
32	Circular	107-909▲	47.53	44.13	40.86	38.84	35.39	

Over 480,000 products online



Square Flange Panel Mounting

No. of Ways	Insert Type	Overall Length	Flange Width	Front Mounting Panel Cut-out Dimensions	
				A	B (dia.)
6	10-06	26.4	24.3	18.26	17.40
7	10-07	26.4	24.3	18.26	17.40
8	12-08	26.4	26.6	20.62	21.95
10	12-10	26.4	26.6	20.62	21.95
12	14-12	26.4	29.0	23.01	25.12
19	14-19	26.4	29.0	23.01	25.12
26	16-26	26.4	31.5	24.61	28.27
32	18-32	26.4	33.8	26.97	31.45

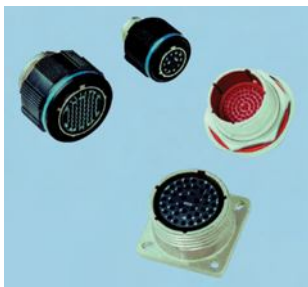
Mfrs. List No. AB05 2100 xx yN00, where xx=insert type and y=P-pin or S-socket

209363

No. of Ways	Insert Type	Order Code	1+	10+	25+	50+	100+
Square Flange Panel Plug - Pin Contacts							
6	CircularP	107-910▲	11.75	10.11	9.25	8.67	8.08
7	CircularP	107-911▲	10.85	10.08	9.32	8.83	7.70
8	CircularP	107-912▲	13.36	12.38	11.48	10.89	9.86
10	CircularP	107-913▲	13.36	12.37	11.35	10.67	9.06
12	CircularP	107-914▲	16.66	14.73	13.54	12.77	10.87
19	CircularP	107-915▲	18.10	16.83	15.63	14.88	11.90
26	CircularP	107-916▲	22.05	20.48	17.71	15.50	14.19
32	CircularP	107-917▲	26.74	24.81	23.28	22.46	20.38
Square Flange Panel Socket - Socket Contacts							
6	CircularS	107-918▲	12.12	11.24	10.30	9.63	8.08
7	CircularS	107-919▲	12.93	11.08	10.41	10.07	8.80
8	CircularS	107-920▲	14.15	12.20	11.44	11.01	9.88
10	CircularS	107-921▲	14.44	13.41	12.96	12.70	11.19
12	CircularS	107-922▲	18.98	17.63	16.44	15.76	12.82
19	CircularS	107-923▲	24.07	22.32	21.57	21.13	17.23
26	CircularS	107-924▲	31.24	28.99	26.83	25.47	22.24
32	CircularS	107-925▲	34.93	32.41	29.59	27.68	24.45

Circular Multipole - MIL-C-38999

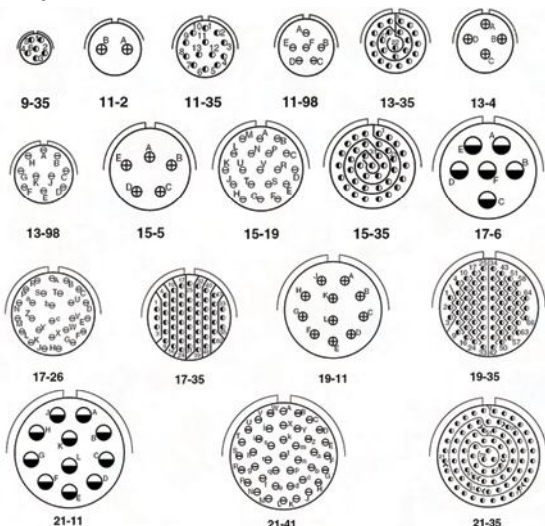
AMPHE-LITE® Commercial 38999, Series III Type Amphenol Composite Connectors



- Completely mates in one 360° turn of the coupling nut to provide fast and easy assembly and maintenance
- Contacts are rear insertable and rear removable
- Lightweight composite shell resists corrosion
- Scoop-proof recessed pins
- Gold plated contacts
- Class F electroless nickel plated composite shells
- EMI shielding and grounding

- Salt spray exposure min. 2000 hrs
- All Connectors are supplied with loose contacts and insert/extraction tool

The AMPHE-LITE Series is inter-mountable with Amphenol's Mil Spec 38999 connector. Series III is environmentally-resistant, lightweight, corrosion resistant, provides complete EMI shielding and is very durable. This series also enables the use of readily available standard 38999 insert configurations. The Amphe-Lite Connector Series is designed for communications equipment manufacturers with signal and power interconnect requirements in harsh environments such as communication towers, outdoor and roof-top applications. This commercial 38999, Series III type composite connector series is ideal for communications equipment, manufacturing process control and medical equipment. The Amphe-Lite offers the highest performance capabilities for severe environment applications and can also be used for general duty and non-environmental applications. The Amphe-Lite is UL Recognized, file E115497.



Shell Size/Arrg.	No. Contacts	Contact Size	Wire Size ∅ Min.	Wire Size ∅ Max	Service Rating
9-35	6	22D	0.76	1.37	M
11-2	2	16	2.16	2.77	I
11-35	13	22D	0.76	1.37	M
11-98	6	20	1.02	2.11	I
13-4	4	16	2.16	2.77	I
13-35	22	22	0.76	1.37	M
13-98	10	20	1.02	2.11	I
15-5	5	16	2.16	2.77	II
15-19	19	20	1.02	2.11	I
15-35	37	22D	0.76	1.37	M
17-6	6	12	2.46	3.61	I
17-26	26	20	1.02	2.11	I
17-35	55	22D	0.76	1.37	M
19-11	11	16	2.16	2.77	II
19-35	66	22D	0.76	1.37	M
21-11	11	12	2.46	3.61	I
21-35	79	22D	0.76	1.37	M
21-41	41	20	1.02	2.11	I

Contact Size	Test Current	Maximum mV Drop	Service Rating	Suggested Operating Voltage (Sea Level) AC (RMS)	DC (Sea Level)	Test Voltage
22D	5A	73 mV	M	400 V	550 V	1300 VRMS
20	7.5A	55 mV	I	600 V	850 V	1800 VRMS
16	13A	49 mV	II	900 V	1250 V	2300 VRMS
12	23A	42 mV				

451431

AMPHE-LITE Commercial 38999, Series III Free Plugs



Pin Contacts

Mfrs. List No.	Order Code	1+	10+	25+	50+
AL06F13-4P(IP) = 128-1281	128-1281●	22.55	21.40	20.50	19.54
AL06F15-5P(IP) = 128-1287	128-1287●	21.95	20.81	19.94	19.01
AL06F9-35P(IP) = 128-1260	128-1260●	21.24	20.67	20.12	19.61
AL06F17-6P(IP) = 128-1296	128-1296●	32.81	31.12	29.84	28.44
AL06F13-98P(IP) = 128-1285	128-1285●	21.15	20.58	20.04	19.52
AL06F21-11P(IP) = 128-1308	128-1308●	24.49	23.23	22.27	21.21
AL06F11-35P(IP) = 128-1277	128-1277●	45.92	43.55	41.76	39.77
AL06F15-19P(IP) = 128-1291	128-1291●	19.71	18.69	17.91	17.07
AL06F17-35P(IP) = 128-1300	128-1300●	19.59	18.60	17.82	16.98
AL06F13-4S(IP) = 128-1282	128-1282●	19.87	18.84	18.06	17.20
AL06F15-5S(IP) = 128-1289	128-1289●	23.00	21.79	20.90	19.90
AL06F9-35S(IP) = 128-1273	128-1273●	21.44	20.34	19.50	18.56
AL06F11-98S(IP) = 128-1280	128-1280●	23.16	21.96	21.06	20.06

Socket Contacts

Mfrs. List No.	Order Code	1+	10+	25+	50+
AL06F13-4S(IP) = 128-1282	128-1282●	22.95	21.76	20.87	19.88
AL06F15-5S(IP) = 128-1289	128-1289●	21.63	20.50	19.66	18.72
AL06F9-35S(IP) = 128-1273	128-1273●	19.02	18.04	17.30	16.46
AL06F11-98S(IP) = 128-1280	128-1280●	24.96	24.29	23.65	23.04
AL06F13-98S(IP) = 128-1285	128-1285●	31.35	29.73	28.49	27.15
AL06F21-11S(IP) = 128-1308	128-1308●	27.13	25.72	24.65	23.50
AL06F15-19S(IP) = 128-1292	128-1292●	19.00	18.02	17.27	16.45
AL06F17-35S(IP) = 128-1300	128-1300●	25.82	24.49	23.49	22.37
AL06F13-4S(IP) = 128-1282	128-1282●	20.00	18.98	18.19	17.33
AL06F15-5S(IP) = 128-1289	128-1289●	23.25	22.05	21.13	20.14
AL06F9-35S(IP) = 128-1273	128-1273●	26.37	25.01	23.97	22.84
AL06F11-98S(IP) = 128-1280	128-1307●	28.42	26.95	25.83	24.61
AL06F13-98S(IP) = 128-1285	128-1311●	24.58	23.32	22.36	21.30

451434



Circular Multipole - MIL-C-38999 - continued

AMPHE-LITE Commercial 38999, Series III

Jam Nut Receptacle

Amphenol



Mfrs. List No. AL07F13-98P(IP) = 128-1328 AL07F15-35P(IP) = 128-1342
AL07F17-6P(IP) = 128-1338 AL07F15-35P(IP) = 128-1336

Pin Contacts

No. of Ways	Shell Size / Arrangement	Order Code	1+	10+	25+	50+
Jam Nut Receptacle						
6	17-6	128-1338●	50.79	48.14	46.14	44.10
10	13-98	128-1328●	13.77	13.05	12.53	11.94
37	15-35	128-1336●	20.70	19.63	18.82	17.94
55	17-35	128-1342●	28.00	26.56	25.48	24.27

Socket Contacts

Mfrs. List No. AL07F13-98S(IP) = 128-1329 AL07F15-35S(IP) = 128-1337
AL07F17-6S(IP) = 128-1339 AL07F13-35S(IP) = 128-1327 AL07F17-35S(IP) = 128-1344

No. of Ways	Shell Size / Arrangement	Order Code	1+	10+	25+	50+
Jam Nut Receptacle						
6	17-6	128-1339●	35.28	33.44	32.07	30.55
10	13-98	128-1329●	16.55	15.71	15.06	14.35
22	13-35	128-1327●	15.86	15.05	14.43	13.74
37	15-35	128-1337●	20.95	19.88	19.04	18.15
55	17-35	128-1344●	32.03	30.38	29.12	27.75

AMPHE-LITE Commercial 38999, Series III

Flanged Panel Mount Receptacle

Amphenol



Mfrs. List No. AL00F13-4P(IP) = 128-1364 AL00F13-98P(IP) = 128-1378 AL00F15-35P(IP) = 128-1376
AL00F11-98P(IP) = 128-1362 AL00F13-35P(IP) = 128-1369 AL00F17-35P(IP) = 128-1384
AL00F11-35P(IP) = 128-1360 AL00F19-35P(IP) = 128-1388

Pin Contacts

No. of Ways	Shell Size / Arrangement	Order Code	1+	10+	25+	50+
Flanged Panel Mount Receptacle						
3	13-4	128-1364●	18.71	17.73	17.00	16.21
6	11-98	128-1362●	18.52	17.57	16.84	16.05
6	17-6	128-1378●	29.05	27.55	26.41	25.16
10	13-98	128-1369●	15.69	14.87	14.26	13.58
13	11-35	128-1360●	13.98	13.26	12.72	12.12
37	15-35	128-1376●	14.97	14.18	13.60	12.96
55	17-35	128-1384●	20.56	19.51	18.70	17.81
66	19-35	128-1388●	16.76	15.89	15.24	14.51

Socket Contacts

Mfrs. List No. AL00F9-35S(IP) = 128-1357 AL00F21-11S(IP) = 128-1387 AL00F21-41S(IP) = 128-1396
AL00F17-6S(IP) = 128-1381 AL00F17-26S(IP) = 128-1383 AL00F17-35S(IP) = 128-1385
AL00F13-98S(IP) = 128-1370 AL00F15-35S(IP) = 128-1377 AL00F19-35S(IP) = 128-1389

No. of Ways	Shell Size / Arrangement	Order Code	1+	10+	25+	50+
Flanged Panel Mount Receptacle						
6	9-35	128-1357●	13.15	12.45	11.96	11.39
6	17-6	128-1381●	27.58	26.16	25.08	23.89
10	13-98	128-1370●	15.31	14.51	13.92	13.26
11	19-11	128-1387●	18.47	17.51	16.79	16.01
11	21-11	128-1391●	36.49	34.59	33.16	31.60
26	17-26	128-1383●	22.16	21.01	20.15	19.19
37	15-35	128-1377●	17.24	16.35	15.67	14.94
41	21-41	128-1396●	21.09	20.00	19.17	18.27
55	17-35	128-1385●	24.56	23.29	22.33	21.28
66	19-35	128-1389●	22.03	20.88	20.03	19.08

AMPHE-LITE Commercial 38999, Series III

Backshell

Amphenol

Shell Size	Order Code	1+	10+	25+	50+
Straight					
9	131-3804●	19.97	18.15	17.22	16.37
11	131-3805●	25.25	22.96	21.77	20.71
13	131-3806●	29.85	27.15	25.74	24.47
15	131-3807●	17.94	16.30	15.47	14.70
17	131-3808●	35.55	32.33	30.65	29.14
19	131-3809●	20.10	18.26	17.33	16.46
21	131-3810●	29.97	27.26	25.84	24.57
Right Angle					
11	131-3813●	21.96	19.97	18.94	18.02
13	131-3814●	31.26	28.42	26.95	25.62
15	131-3815●	27.38	24.90	23.61	22.46
17	131-3816●	28.05	25.51	24.18	23.00
19	131-3817●	32.01	29.11	27.60	26.25

AMPHE-LITE Commercial 38999, Series III

Tooling

Amphenol

Contact Size	Order Code	Price Each
Crimp Tool		
12, 16, 20	130-7673	409.21
22D	495-931	426.81
Positioner		
12, 16, 20	890-388	89.71
22D Pin	131-3389	79.18
22D Socket	131-3388	79.18

D38999 Series 3

Threaded Olive Drab Connectors

Amphenol



These high quality thread-locking connectors are designed to meet the most stringent requirements of the military and aerospace industries, meeting Mil-DTL-38999, BS9520 G0003 and JN1034 specifications. The connector housings are machined from solid aluminium alloy bar to ensure maximum strength, and an olive drab zinc cobalt plate finish that meets the requirements of the EC Directive for cadmium free products.

Products are supplied with crimp contacts, and are available in normal or A keyway orientation, with options of square flange, jam nut or straight cable mounting.

Current Rating	5A	7.5A
Contact Size	22D	20
Working Voltage	500Vdc or ac peak	850Vdc or ac peak
Voltage Proof	1300Vdc or ac peak	1800Vdc or ac peak
Contact Resistance	5mohm max	5mohm max
Insulation Resistance	5000Mohm min	5000Mohm min
Shell Material	Aluminium Alloy	Aluminium Alloy
Shell Finish	Olive Drab Zinc Cobalt	Olive Drab Zinc Cobalt
Contact Material	Gold Plated Copper Alloy	Gold Plated Copper Alloy
Wire Conductor Size	22AWG to 28AWG	20AWG to 24AWG
Temperature Range	-55°C to +175°C	-55°C to +175°C

Note: Keying Orientation N to N and A to A

Mfrs. List No. TVzzRW-yy-xxwv(W52)

Where zz=06-free or 07-jam nut or P00-chassis, yy=shell size, xx=no of ways, w=P-plug or S-socket, v=keyway

FOR 38999 RJ FIELD CONNECTORS SEE SIGNAL & DATA SECTION

Shell Size	No. of Ways	Current Rating	Keyway	Order Code	1+	10+	25+	50+
Free Plug								
9	6	5A	Keyway N	128-1544▲	31.03	28.42	27.17	25.62
9	3	7.5A	Keyway N	128-1545▲	30.39	27.87	26.66	25.11
11	13	5A	Keyway N	128-1546▲	34.79	31.89	30.49	28.75
11	6	7.5A	Keyway N	128-1548▲	34.10	31.25	29.88	28.19
13	22	5A	Keyway N	128-1551▲	36.08	33.08	31.64	29.83
13	10	7.5A	Keyway N	128-1552▲	35.34	32.42	30.99	29.21
15	37	5A	Keyway N	128-1553▲	44.02	40.38	38.61	36.41
9	6	5A	Keyway A	128-1554▲	31.71	29.03	27.79	26.18
9	3	7.5A	Keyway A	128-1555▲	31.06	28.47	27.22	25.66

Shell Size	No. of Ways	Current Rating	Keyway	Order Code	1+	10+	25+	50+
Free Plug								
11	13	5A	Keyway A	128-1556▲	35.45	32.51	31.08	29.52
13	22	5A	Keyway A	128-1558▲	36.75	33.70	32.22	30.38
15	37	5A	Keyway A	128-1560▲	44.69	41.00	39.21	36.97
Free Socket								
9	6	5A	Keyway N	128-1561▲	32.58	29.86	28.55	26.91
9	3	7.5A	Keyway N	128-1564▲	31.93	29.26	27.98	26.38
11	13	5A	Keyway N	128-1565▲	36.54	33.50	32.04	30.20
11	6	7.5A	Keyway N	128-1566▲	35.78	32.82	31.39	29.59
13	22	5A	Keyway N	128-1568▲	37.77	34.75	33.22	31.32
15	37	5A	Keyway N	128-1570▲	46.22	42.43	40.57	38.25
9	6	5A	Keyway A	128-1571▲	33.24	30.48	29.14	27.68
11	13	5A	Keyway A	128-1573▲	37.20	34.12	32.62	30.75
13	22	5A	Keyway A	128-1576▲	38.55	35.36	33.81	31.89
15	37	5A	Keyway A	128-1578▲	37.52	34.43	32.92	31.04
Jam Nut Plug								
9	6	5A	Keyway N	128-1579▲	28.22	25.86	24.73	23.41
11	13	5A	Keyway N	128-1581▲	31.54	29.01	27.74	26.14
11	6	7.5A	Keyway N	128-1582▲	24.80	22.74	21.74	20.49
13	22	5A	Keyway N	128-1583▲	26.26	24.07	23.01	21.70
15	37	5A	Keyway N	128-1585▲	40.04	36.73	35.12	33.11
13	22	5A	Keyway A	128-1591▲	33.45	30.66	29.38	27.65
Jam Nut Socket								
9	6	5A	Keyway N	128-1594▲	30.17	27.65	26.49	24.94
9	3	7.5A	Keyway N	128-1595▲	29.57	27.11	25.97	24.45
11	13	5A	Keyway N	128-1596▲	33.80	30.99	29.68	27.95
11	6	7.5A	Keyway N	128-1597▲	33.13	30.37	29.09	27.39
13	22	5A	Keyway N	128-1599▲	26.30	24.10	23.09	21.75
13	10	7.5A	Keyway N	128-1600▲	34.37	31.50	30.18	28.41
15	37	5A	Keyway N	128-1601▲	42.74	39.18	37.53	35.34
9	6	5A	Keyway A	128-1602▲	30.85	28.27	27.08	25.50
9	3	7.5A	Keyway A	128-1603▲	30.24	27.73	26.57	25.01
11	13	5A	Keyway A	128-1605▲	27.58	25.28	24.22	22.81
13	22	5A	Keyway A	128-1608▲	35.71	32.73	31.37	29.53
Chassis Plug								
9	6	5A	Keyway N	128-1611▲	26.34	24.14	23.13	21.78
9	3	7.5A	Keyway N	128-1612▲	25.84	23.67	22.69	21.36
11	13	5A	Keyway N	128-1613▲	29.55	27.09	25.95	24.43
13	22	5A	Keyway N	128-1615▲	30.63	28.06	26.89	25.32
15	37	5A	Keyway N	128-1618▲	37.35	34.24	32.80	30.89
9	3	7.5A	Keyway A	128-1620▲	21.20	19.44	18.62	17.53
11	13	5A	Keyway A	128-1621▲	30.19	27.67	26.51	24.96
13	22	5A	Keyway A	128-1623▲	25.04	22.95	21.98	20.71
13	10	7.5A	Keyway A	128-1624▲	30.68	28.12	26.94	25.36
15	37	5A	Keyway A	128-1625▲	38.01	34.84	33.36	31.42
Chassis Socket								
9	6	5A	Keyway N	128-1626▲	28.99	26.57	25.45	23.96
9	3	7.5A	Keyway N	128-1627▲	28.42	26.05	24.95	23.50
11	13	5A	Keyway N	128-1629▲	32.49	29.77	28.53	26.85
11	6	7.5A	Keyway N	128-1631▲	23.88	21.89	20.96	19.74
13	22	5A	Keyway N	128-1632▲	33.70	30.89	29.58	27.86
13	10	7.5A	Keyway N	128-1633▲	26.42	24.22	23.20	21.84
15	37	5A	Keyway N	128-1635▲	32.86	30.13	28.86	27.16
9	6	5A	Keyway A	128-1636▲	29.66	27.18	26.04	24.51
11	13	5A	Keyway A	128-1639▲	33.16	30.39	29.11	27.41
13	22	5A	Keyway A	128-1642▲	34.37	31.50	30.18	28.41

D38999 Series 3

Dust Caps

- Aluminium Alloy with Zinc Cobalt over Nickel plating
- Terylene Cord
- Olive Drab Finish

Mfrs. List No. 418-6033-zzy0501-04
Where zz=shell size, y=P-plug or R-socket

450890

Shell Size	Order Code	1+	10+	25+	50+
Plug Dust Cap					
9	128-1645▲	13.19	12.05	11.51	11.03
11	128-1646▲	13.77	12.59	12.02	11.53
13	128-1647▲	15.36	14.04	13.40	12.83
15	128-1648▲	15.07	13.76	13.14	12.59
Socket Dust Cap					
9	128-1650▲	16.48	15.05	14.36	13.77
11	128-1651▲	17.21	15.73	15.00	14.38
13	128-1652▲	17.98	16.43	15.70	15.04
15	128-1654▲	18.80	17.17	16.39	15.72

D38999 Series 3

Backshells

- Aluminium Alloy with Zinc Cobalt plating
- Green Chromate Passivation
- Zetallack Termination with heatshrink boot groove

Mfrs. List No. AIA-5003-zz-00-yy-10-AA-04
Where zz=shell size, yy=00-straight or 90-right angle

450897

Shell Size	Order Code	1+	10+	25+	50+
Straight					
9	128-1655▲	17.87	16.33	15.59	14.94
11	128-1656▲	19.04	17.40	16.61	15.92
13	128-1657▲	20.02	18.29	17.45	16.73
15	128-1658▲	20.91	19.11	18.24	17.48

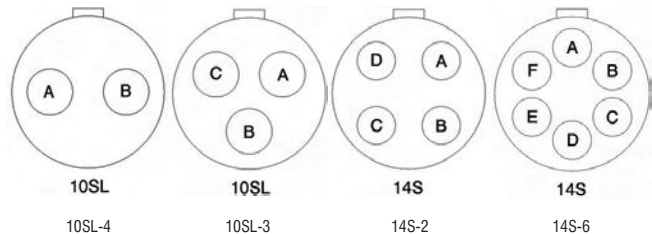
Shell Size	Order Code	1+	10+	25+	50+
Right Angle					
9	128-1659▲	14.75	13.46	12.86	12.32
11	128-1660▲	20.95	19.14	18.27	17.51
13	128-1661▲	22.01	20.11	19.20	18.39
15	128-1662▲	23.00	21.01	20.06	19.23
Zetallack Clips					
9	128-1663▲	3.75	3.53	3.22	3.14
11, 13	391-2218▲	3.48	3.42	3.34	3.22
15	391-2220▲	3.48	3.42	3.34	3.22

Circular Multipole - MIL-C-5015

MIL-C-5015 Connectors



Highly durable, threaded, circular Military and Commercial connectors designed for use in fixed or mobile equipment. They are particularly suitable for commercial, industrial equipment, machine tools, robotics and automation applications requiring low cost and high reliability. This RoHS compliant range of connectors are fully compatible with the MIL-C-5015 standard and so are fully sealed against water ingress.



Specification

Current Rating	13A
Insulation Resistance	≥5000MΩ
Voltage Rating AC	200V rms
Voltage Rating DC	250V
Mating Cycles	500
Operating Temperature	-55°C to 125°C

Environmental Test Data

Vibration	MIL-STD-1344 Method 2005. 10 ~ 500Hz (10G)
Shock	50G/ Time 11 sec. Test Current 100mA
Salt Spray	MIL-STD-1344 Method 1001. Salt solution 5% 48 hrs
Humidity	95% ± 3% temperature 71°C ± 2°C

Materials

Housing	Aluminium Alloy, Zinc plated with Black Chromate coating
Contacts (Size 16)	Copper Alloy, Silver Plate Finish
Insulators & Seals	Synthetic Rubber

Mfrs. List No. M90-zzzzzzyyyyx

Where zzzzz=3106F-free plug or 3102R-panel mount or 3101F-free receptacle, yyyy=contact configuration, x=P-pin contacts or S-socket contacts

450897

Shell Size	No. Contacts	Order Code	1+	5+	10+	50+
Free Plug - Socket Contacts						
10	2	130-6063●	16.08	14.36	13.28	11.96
10	3	130-6064●	16.60	14.82	13.71	12.34
14	4	130-6062●	18.68	16.66	15.41	13.88
14	6	130-6061●	19.93	17.78	16.46	14.82
Free Plug - Pin Contacts						
10	2	130-6068●	15.22	13.57	12.55	11.31
10	3	130-6069●	15.47	13.79	12.77	11.49
14	4	130-6067●	17.38	15.49	14.32	12.89
14	6	130-6065●	17.91	15.96	14.77	13.30
Panel Mount Receptacle - Socket Contacts						
10	2	130-6072●	6.65	5.92	5.50	4.96
10	3	130-6073●	7.61	6.80	6.28	5.67
14	4	130-6071●	7.99	7.12	6.59	5.93
14	6	130-6070●	9.30	8.29	7.68	6.92
Panel Mount Receptacle - Pin Contacts						
10	2	130-6076●	6.34	5.67	5.24	4.72
10	3	130-6077●	6.77	5.94	5.54	5.12
14	4	130-6075●	5.28	4.72	4.37	3.93
14	6	130-6074●	5.87	5.23	4.85	4.36
Free Receptacle - Socket Contacts						
10	2	130-6082●	9.90	8.48	7.81	7.08
10	3	130-6083●	10.33	8.85	8.16	7.38
14	4	130-6081●	12.00	10.30	9.48	8.58
14	6	130-6079●	12.12	10.39	9.58	8.66
Free Receptacle - Pin Contacts						
10	2	130-6086●	12.56	10.77	9.93	8.97
10	3	130-6087●	9.47	8.11	7.48	6.77
14	4	130-6085●	10.27	8.80	8.10	7.34
14	6	130-6084●	14.54	12.46	11.49	10.39



Circular Multipole - MIL-C-5015 - continued

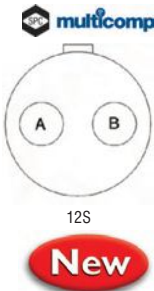
Commercial MIL-C-5015 Connectors



Free Plug

Socket Chassis

Cable Connector



528192

Shell Size	No. of Contacts	Order Code	1 +	Price Each		
				5 +	10 +	50 +
Free Plug - Socket Contact						
12S	2	165-5043●	17.00	15.14	13.92	12.59
Free Plug - Pin Contact						
12S	2	165-5044●	16.53	14.73	13.55	12.24
Panel Mount Socket Chassis - Socket Contact						
12S	2	165-5047●	8.66	7.71	7.09	6.42
Panel Mount Socket Chassis - Pin Contact						
12S	2	165-5049●	8.02	7.14	6.57	5.94
Cable Connector - Socket Contact						
12S	2	165-5045●	17.00	15.14	13.92	12.59
Cable Connector - Pin Contact						
12S	2	165-5046●	16.53	14.73	13.55	12.24
Accessories						
Shell Size		Order Code	1 +	Price Each		
				5 +	10 +	50 +
Dust Caps for Free Plugs						
10SL		165-5051●	7.23	6.44	5.92	5.36
12S		165-5052●	7.87	7.02	6.45	5.82
14S		165-5053●	8.52	7.59	6.98	6.30
Dust Caps for Socket Chassis & Cable Connectors						
10SL		165-5054●	7.23	6.44	5.92	5.36
12S		165-5055●	7.87	7.02	6.45	5.82
14S		165-5056●	8.52	7.59	6.98	6.30
Rubber Bushings						
10SL, 12S		165-5057●	2.44	2.17	1.99	1.81
14S		165-5058●	2.44	2.17	1.99	1.81

Mfrs. List No.	Order Code	Rating	Mfrs. List No.	Order Code	Rating
CM13102A10SL-3P.	483-6236	A	CM3106F22-14.	483-6571	
CM13102A14S-6P.	483-6250	I			
CM13102A16S-1P.	483-6261	A	CM3106F28-21.	483-6613	
CM13102A18-1P.	483-6273	I	CM3108F10SL-3.	483-6625	
CM13102A22-2P.	483-6303	D			
CM13102A22-22P.	483-6339	A			

335235/406572

Shell Size	No. of Contacts	Size	Order Code	1+	10+	Price Each	25+	50+	250+
Plug - Cable									
10	2	16	483-5980▲	11.59	10.00	9.81	9.60	8.07	
10	3	16	483-5979▲	12.23	10.55	10.34	10.14	8.51	
14	6	16	483-5992▲	13.36	11.53	11.29	11.03	9.29	
16	7	16	483-6005▲	18.92	16.32	15.99	15.66	13.15	
18	10	16	483-6017▲	15.20	13.29	13.17	12.69	10.68	
20	19	16	483-6030▲	23.33	19.83	19.63	18.93	15.91	
22	19	16	483-6054▲	22.86	19.72	19.32	18.92	15.91	
22	4	8	483-6078▲	29.33	25.31	24.80	24.30	20.41	
Socket - Cable									
10	3	16	483-6108▲	12.91	11.14	10.92	10.69	8.97	
16	7	16	483-6133▲	20.52	17.71	17.35	16.99	14.27	
22	4	8	483-6200▲	38.18	32.95	32.30	31.62	26.55	
22	19	16	483-6182▲	27.58	23.44	23.20	22.37	18.81	
28	37	16	483-6224▲	35.18	30.35	29.74	29.12	24.47	
Plug - Chassis									
10	3	16	483-6236▲	9.62	8.30	8.13	7.97	7.50	
14	6	16	483-6250▲	11.02	9.53	9.36	9.14	8.55	
16	7	16	483-6261▲	13.83	11.91	11.68	11.42	9.61	
18	10	16	483-6273▲	13.28	11.43	11.22	10.96	9.94	
22	3	8	483-6303▲	6.29	—	—	—	—	
22	4	8	483-6339▲	20.62	17.79	17.44	17.07	14.35	
22	19	16	483-6315▲	14.13	13.00	12.03	11.20	10.47	
Socket - Chassis									
10	2	16	483-6376▲	10.74	9.25	9.07	8.90	8.40	
10	3	16	483-6364▲	10.10	8.71	8.54	8.35	7.87	
14	6	16	483-6388▲	13.25	11.43	11.22	10.98	10.26	
16	7	16	483-6390▲	16.98	14.43	14.29	13.78	11.58	
20	19	16	483-6420▲	24.70	21.31	20.88	20.45	17.18	
22	4	8	483-6467▲	30.17	26.03	25.50	24.96	20.96	
22	19	16	483-6443▲	25.49	22.01	21.57	21.13	17.73	
Clamp Straight									
10	2		483-6509▲	7.62	6.58	6.45	6.31	5.31	
10	3		483-6492▲	8.12	7.01	6.87	6.73	5.66	
14	6		483-6510▲	7.58	6.55	6.41	6.27	5.77	
16	7		483-6522▲	9.90	8.52	8.35	8.17	6.87	
18	10		483-6534▲	8.10	6.98	6.84	6.70	5.62	
20	19		483-6558▲	10.72	9.26	9.07	8.86	7.45	
22	4		483-6595▲	10.84	9.35	9.16	8.98		
22	19		483-6571▲	11.49	9.77	9.67	9.33	7.85	
28	37		483-6613▲	10.81	9.32	9.14	8.94	7.52	
Clamp Right Angle									
10	3		483-6625▲	15.03	12.98	12.71	12.43	10.46	

MIL-C-5015 Connectors



14



The CM1 series of connectors derives from the MIL-C-5015 standard, but is different because of its bayonet coupling, which reduces the coupling time and makes the coupling easier when the connector is in an awkward position. Another advantage is the resistance to vibrations because of the three stainless steel wear pins located near the end of the bayonet track of the receptacle.

This series uses the same inserts as the MIL-C-5015 and the VG 95234 and is interchangeable with the latter.

Typical applications include road and rail transport, military vehicles, communication and radar apparatus, cinema and television lighting systems and industrial automation.

Mfrs. List No.	Order Code	Rating	Mfrs. List No.	Order Code	Rating
CM13106A10SL-4PNO.	483-5980	A	CM13102A22-14P.	483-6315	A
CM13106A10SL-3PNO.	483-5979	A			
CM13106A14S-6PNO.	483-5992	I	CM13102A10SL-4S.	483-6376	A
CM13106A16S-1PNO.	483-6005	A	CM13102A10SL-3S.	483-6364	I
CM13106A18-1PNO.	483-6017	I	CM13102A14S-6S.	483-6388	A
CM13106A20-A48PNO.	483-6030	I	CM13102A16S-1S.	483-6390	I
CM13106A22-14PNO.	483-6054	A			
CM13106A22-22PNO.	483-6078	A	CM13102A20-A48S.	483-6420	D
			CM13102A22-22S.	483-6467	A
			CM13102A22-14S.	483-6443	A
CM13106A10SL-4SNO.	483-6110	A			
CM13106A10SL-3SNO.	483-6108	A			
CM13106A14S-6SNO.	483-6121	I	CM3106F10SL-4.	483-6509	
CM13106A16S-1SNO.	483-6133	A	CM3106F10SL-3.	483-6492	
CM13106A18-1SNO.	483-6145	I	CM3106F14S-6.	483-6510	
CM13106A22-2SNO.	483-6170	D	CM3106F16S-1.	483-6522	
CM13106A22-22SNO.	483-6200	A	CM3106F18-1.	483-6534	
CM13106A22-14SNO.	483-6182	A	CM3106F20-A48.	483-6558	
CM13106A28-21SNO.	483-6224	A	CM3106F22-2.	483-6560	
			CM3106F22-22.	483-6595	

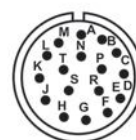
MIL-C-5015 Connectors



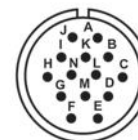
MIL-C-5015 connectors are designed and manufactured for extreme conditions but are ideally suited to commercial applications where a low cost rugged connector is required.

- Completely sealed to withstand moisture, condensation, vibration and flashback
- Tinned solder pot termination

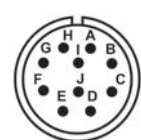
Typical applications include aircraft, industrial equipment, medical equipment, transportation, communication, robotics and telecommunications



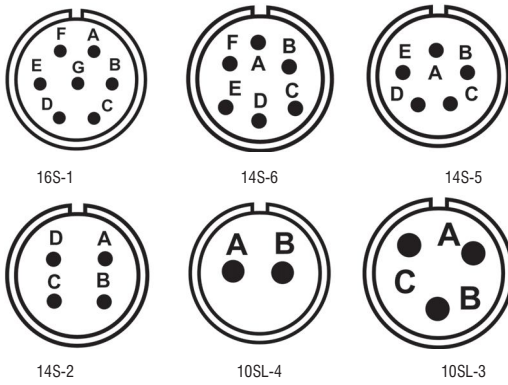
20-29



20-27



18-1



Specification		Specification	
Current Rating	13A	Wire Range	16 to 20 AWG
Insulation Resistance	≥5000MΩ	Materials	
Voltage Rating AC	200V rms	Housing	Aluminium Alloy Olive Drab Chromate finish
Voltage Rating DC	250V	Contacts (Size 16)	Copper Alloy, Silver plated
Mating Cycles	100	Insulator	Neoprene
Operating Temperature	-55°C to 125°C		

MS3106F straight plugs mate with MS3102 receptacles
MS3101F cable connecting plugs are used for cable extension requirements where mounting provisions are unnecessary and mate with MS3106F plugs

MS3106F20-29S=390-5019	MS3106F10SL-3P=390-5184	MS3102R10SL-4P=390-5342
MS3106F20-27S=390-5032	MS3102R20-29S=390-5196	MS3102R10SL-3P=390-5366
MS3106F18-1S=390-5056	MS3102R20-27S=390-5214	MS3101F20-27S=390-5391
MS3106F16S-1S=390-5070	MS3102R18-1S=390-5238	MS3101F16S-1S=390-5433
MS3106F14S-6S=390-5093	MS3102R16S-1S=390-5251	MS3101F16S-1S=390-5433
MS3106F14S-5S=390-5111	MS3102R14S-6S=390-5275	MS3101F14S-5S=390-5470
MS3106F14S-2S=390-5135	MS3102R14S-5S=390-5299	MS3101F14S-2S=390-5494
MS3106F10SL-4S=390-5159	MS3102R14S-2S=390-5317	MS3101F10SL-4S=390-5512
MS3106F10SL-3S=390-5172	MS3102R10SL-4S=390-5330	MS3101F10SL-3S=390-5536
MS3106F20-29P=390-5020	MS3102R10SL-3S=390-5354	MS3101F20-27P=390-5408
MS3106F20-27P=390-5044	MS3102R20-29P=390-5202	MS3101F18-1P=390-5421
MS3106F18-1P=390-5068	MS3102R20-27P=390-5226	MS3101F16S-1P=390-5445
MS3106F16S-1P=390-5081	MS3102R18-1P=390-5240	MS3101F14S-6P=390-5469
MS3106F14S-6P=390-5100	MS3102R16S-1P=390-5263	MS3101F14S-5P=390-5482
MS3106F14S-5P=390-5123	MS3102R14S-6P=390-5287	MS3101F14S-2P=390-5500
MS3106F14S-2P=390-5147	MS3102R14S-5P=390-5305	MS3101F10SL-4P=390-5524
MS3106F10SL-4P=390-5160	MS3102R14S-2P=390-5329	MS3101F10SL-3P=390-5548

233517

Shell Size	No. Contacts	Order Code	1+	5+	10+	50+
Free Plug - Socket Contacts						
10	2	390-5159▲	21.66	19.36	17.89	16.12
10	3	390-5172▲	22.66	20.22	18.71	16.83
14	4	390-5135▲	20.27	18.08	16.71	15.06
14	5	390-5111▲	26.85	23.96	22.13	19.94
14	6	390-5093▲	28.14	25.11	23.25	20.93
16	7	390-5070▲	34.92	31.15	28.81	25.94
18	10	390-5056▲	39.78	35.50	32.82	29.56
20	14	390-5032▲	47.98	42.81	39.59	35.64
20	17	390-5019▲	50.39	44.96	41.55	37.40
Free Plug - Pin Contacts						
10	2	390-5160▲	21.50	19.17	17.74	15.98
10	3	390-5184▲	22.35	19.95	18.43	16.61
14	4	390-5147▲	23.94	21.33	19.73	17.76
14	5	390-5123▲	24.92	22.20	20.55	18.51
14	6	390-5100▲	25.46	22.69	20.99	18.90
16	7	390-5081▲	30.63	27.30	25.26	22.74
18	10	390-5068▲	35.37	31.54	29.17	26.27
20	14	390-5044▲	41.53	37.04	34.26	30.82
20	17	390-5020▲	45.27	40.38	37.33	33.61
Panel Mount Receptacle - Socket Contacts						
10	2	390-5330▲	7.68	6.83	6.35	5.71
10	3	390-5354▲	8.58	7.66	7.09	6.38
14	4	390-5317▲	8.94	7.98	7.37	6.63
14	5	390-5299▲	9.85	8.77	8.12	7.32
14	6	390-5275▲	10.74	9.58	8.86	8.00
16	7	390-5251▲	11.95	10.66	9.87	8.88
18	10	390-5238▲	17.13	15.27	14.13	12.72
20	14	390-5214▲	21.63	19.30	17.83	16.05
20	17	390-5196▲	24.62	21.96	20.31	18.28
Panel Mount Receptacle - Pin Contacts						
10	2	390-5342▲	7.17	6.38	5.92	5.33
10	3	390-5366▲	13.65	12.17	7.96	7.18
14	4	390-5329▲	7.88	7.01	6.50	5.86
14	5	390-5305▲	8.54	7.63	7.07	6.37
14	6	390-5287▲	9.22	8.22	7.62	6.85
16	7	390-5263▲	10.16	9.06	8.37	7.56
18	10	390-5240▲	12.98	11.57	10.70	9.64
20	14	390-5226▲	16.70	14.88	13.77	12.40
20	17	390-5202▲	18.77	16.74	15.49	13.95

Cable Connector Plug (Receptacle with no mounting flange) - Socket Contacts						
10	2	390-5512▲	21.84	19.48	18.04	16.22
10	3	390-5536▲	23.92	21.33	19.72	17.78
14	5	390-5470▲	23.92	21.36	19.73	17.77
16	7	390-5433▲	32.91	29.35	27.15	24.43
20	14	390-5391▲	46.27	41.29	36.99	32.40
Cable Connector Plug (Receptacle with no mounting flange) - Pin Contacts						
10	2	390-5524▲	21.70	19.35	18.98	17.13
10	3	390-5548▲	22.51	20.08	18.58	16.73
14	4	390-5500▲	22.99	20.47	18.95	17.06

Shell Size	No. Contacts	Order Code	1+	5+	10+	50+
Cable Connector Plug (Receptacle with no mounting flange) - Pin Contacts						
14	5	390-5482▲	23.43	20.91	19.31	17.42
14	6	390-5469▲	23.84	21.27	19.65	17.72
16	7	390-5445▲	29.35	26.19	24.34	21.91
18	10	390-5421▲	29.02	25.89	23.94	21.57
20	14	390-5408▲	42.49	37.93	24.79	22.30

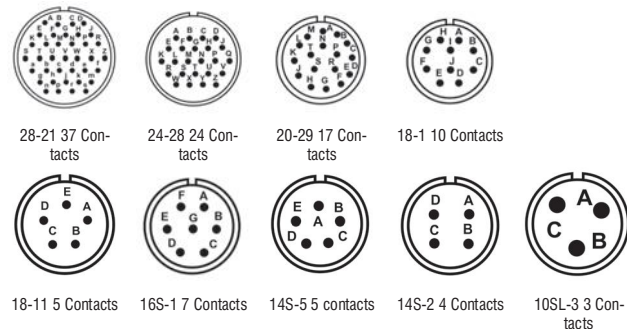
CA-Bayonet Series MIL-C-5015

Reverse Bayonet Lock



Derived from MIL-C-5015 but uses a positive, quick mating 3-point reverse bayonet lock coupling system. These connectors share the same shell dimensions and contact layouts as MIL-C-5015 threaded connectors but the series are not interchangeable. Completely sealed to withstand moisture, condensation, vibration and flashover across a broad range of wire diameters.

- Allows mating and unmating with simple 120° rotation
- Eliminates cross threading
- Easier mating in cold conditions and confined spaces



Specification	Size 16 Contacts	Size 12 Contacts
Current Rating	22A	41A
Wire Range	16 to 20 AWG	12 to 14 AWG
Voltage Rating AC	200V rms	
Voltage Rating DC	250V	
Mating Cycles	2000	
Operating Temperature	-55°C to 125°C	
Materials		
Housing	Aluminium Alloy Olive Drab Chromate finish	
Contacts	Copper alloy,Gold plated	
Insulator	Neoprene	
CA3106E28-21SB=390-5780	CA3106E14S-5PB=390-5913	CA3102E18-1SB=390-6048
CA3106E24-28SB=390-5809	CA3106E14S-2SB=390-5925	CA3102E18-1PB=390-6050
CA3106E24-28PB=390-5810	CA3106E14S-2PB=390-5937	CA3102E18-11SB=390-6061
CA3106E20-29SB=390-5822	CA3106E10SL-3SB=390-5949	CA3102E16S-1SB=390-6085
CA3106E20-29PB=390-5834	CA3106E10SL-3PB=390-5950	CA3102E16S-1PB=390-6097
CA3106E18-1SB=390-5846	CA3102E28-21SB=390-5986	CA3102E14S-5SB=390-6103
CA3106E18-1PB=390-5858	CA3102E28-21PB=390-5998	CA3102E14S-5PB=390-6115
CA3106E18-11SB=390-5860	CA3102E24-28SB=390-6000	CA3102E14S-2SB=390-6127
CA3106E18-11PB=390-5871	CA3102E24-28PB=390-6012	CA3102E14S-2PB=390-6139
CA3106E16S-1SB=390-5883	CA3102E20-29SB=390-6024	CA3102E10SL-3SB=390-6140
CA3106E16S-1PB=390-5895	CA3102E20-29PB=390-6036	CA3102E10SL-3PB=390-6152
CA3106E14S-5SB=390-5901		

233518

Shell Size	No. Contacts	Contact Size	Order Code	1+	Price Each	25+
Straight Plug - 3106 - Socket Contacts						
28	37	16	390-5780▲	67.51	60.23	55.70
24	24	16	390-5809▲	55.84	48.81	45.16
20	17	16	390-5822▲	42.87	38.23	35.36
18	10	16	390-5846▲	42.92	38.30	35.41
18	5	12	390-5860▲	29.75	26.02	24.06
16	7	16	390-5883▲	33.90	30.21	27.94
14	5	16	390-5901▲	29.24	26.06	24.12
14	4	16	390-5925▲	28.50	25.41	23.51
10	3	16	390-5949▲	26.03	23.24	21.47
Straight Plug - 3106 - Pin Contacts						
28	37	16	390-5792▲	63.57	56.71	52.45
24	24	16	390-5810▲	49.45	44.11	40.81
20	17	16	390-5834▲	38.89	34.68	32.08
18	10	16	390-5858▲	36.83	32.85	30.39
18	5	12	390-5871▲	36.90	32.90	30.44
16	7	16	390-5895▲	34.66	30.88	28.58
14	5	16	390-5913▲	27.90	24.89	23.01
14	4	16	390-5937▲	21.66	19.34	17.86
10	3	16	390-5950▲	25.70	22.90	21.19

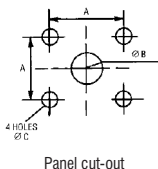


Circular Multipole - MIL-C-5015 - continued

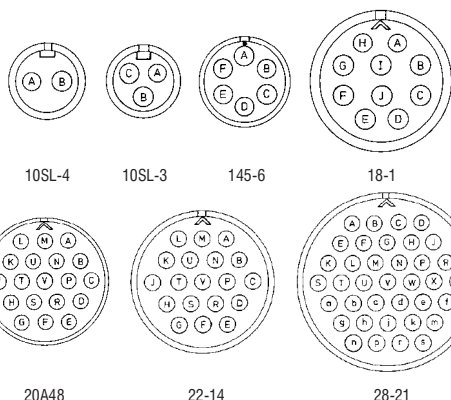
CA-Bayonet Series MIL-C-5015 - continued

Reverse Bayonet Lock - continued

Shell Size	No. Contacts	Contact Size	Order Code	1+	10+	25+
Panel Mount Receptacle -3102 - Socket Contacts						
28	37	16	390-5986▲	49.56	44.20	40.88
24	24	16	390-6000▲	38.57	34.40	31.80
20	17	16	390-6024▲	25.95	23.14	21.40
18	10	16	390-6048▲	18.94	16.91	15.62
18	5	12	390-6061▲	15.81	14.12	13.05
16	7	16	390-6085▲	14.41	12.85	11.89
14	5	16	390-6103▲	11.42	10.19	9.43
14	4	16	390-6127▲	10.65	9.51	8.78
10	3	16	390-6140▲	10.22	9.12	8.43
Panel Mount Receptacle -3102 - Pin Contacts						
28	37	16	390-5998▲	47.73	42.57	39.36
24	24	16	390-6012▲	34.66	30.94	20.23
20	17	16	390-6036▲	22.78	20.32	18.80
18	10	16	390-6050▲	14.50	12.94	11.95
16	7	16	390-6097▲	13.72	11.40	10.55
14	5	16	390-6115▲	10.70	9.54	8.82
14	4	16	390-6139▲	11.49	10.23	9.47
10	3	16	390-6152▲	9.56	8.51	7.88

Heavy Duty Sealed Bayonet Coupling
MIL-C-5015Free plug
107-943Panel socket
107-964

Panel cut-out

Sealing nut
105-5461Cable clamp
105-5464

A range of industrial multipole connectors conforming to **MIL-C-5015** and manufactured to **BS9522-F0032** and **DEF STAN 59-35 Pattern 121B**. Easy grip shells and reverse bayonet locking.

When the connectors are fully loaded each contact will carry up to 10 amps at 350Vac/dc, making this range suitable for mains harnesses for studio lighting, automotive and passenger transport applications.

The aluminium housings are cadmium plated with an olive colour chromate finish giving a high resistance to corrosion. A dynamic sealing ring and grommet provide protection against water ingress to **IP67**. Positive coupling is indicated by an audible snap and by visual alignment of three red dots on the receptacle and on the plug.

Contact rating	Fully loaded	10A @ 350V dc or ac peak	Housing	Aluminium alloy
Isolated pins	13A @ 350V dc or ac peak		Contacts	Hard Silver over nickel
Mating cycles	500		Contact type	Insulator/grommet
Temperature range	-55°C to +125°C		Wire conductor diameter	1.68mm to 2.77mm

Free Housings	Insert Type	Overall Length	Coupling Diameter
No. of Ways			
2	Circular	29.95	24.2
3	Circular	29.95	24.2
6	Circular	29.95	30.6
10	Circular	42	37.3
19	Circular	42	40.7
19	Circular	42	44.2

Mfrs. List No. ABB06T xx ySN, where xx=insert type and y=P-pin or S-socket

Note: Free plugs only mate with panel sockets; Free sockets only mate with panel plugs

209365

No. of Ways	Insert Type	Order Code	1+	10+	25+	50+	100+
Free Plug - Pin Contacts							
2	CircularP	107-942▲	15.34	15.01	13.93	13.31	12.64
3	CircularP	107-943▲	15.61	14.46	13.40	12.58	11.93
6	CircularP	107-944▲	17.97	17.58	16.29	15.58	14.78
10	CircularP	107-945▲	19.30	18.90	17.56	16.75	15.90
19	CircularP	107-946▲	22.46	21.97	20.39	19.48	18.50
Free Socket - Socket Contacts							
2	CircularS	107-949▲	13.93	13.65	12.67	12.10	11.48
3	CircularS	107-950▲	14.65	14.34	13.32	12.70	12.07
6	CircularS	107-951▲	19.29	18.87	17.52	16.74	15.90
10	CircularS	107-952▲	22.80	22.31	20.71	19.75	18.78
19	CircularS	107-953▲	32.58	31.87	29.59	28.23	26.82
19	CircularS	107-954▲	30.50	29.85	27.70	26.45	25.11
37	CircularS	107-955▲	36.94	36.14	33.54	32.02	30.42

Panel Receptacles - supplied with sealing gasket

No. of Ways	Insert Type	Overall Length	Flange Width	Panel A	Panel B (dia.)	Front Mounting C (dia.)
2	10SL-4	29.5	25.7	18.2	16.13	3.4
3	10SL-3	29.5	25.7	18.2	16.13	3.4
6	14S-6	29.5	30.3	23.0	19.30	3.4
10	18-1	42	35.3	27.0	25.65	3.4
19	20A48	42	38.3	29.4	28.83	3.4
19	22-14	42	41.3	31.8	32.00	3.4
37	28-21	42	51.1	39.7	41.53	3.9

Mfrs. List No. ABB00T xx ySN, where xx=insert type and y=P-pin or S-socket

No. of Ways	Insert Type	Order Code	1+	10+	25+	50+	100+
Panel Plug - Pin Contacts							
2	CircularP	107-956▲	12.81	12.56	11.70	11.11	10.55
3	CircularP	107-957▲	14.24	13.95	13.00	12.36	11.74
6	CircularP	107-958▲	15.23	14.89	13.85	13.21	12.55
10	CircularP	107-959▲	18.48	18.07	16.80	15.98	15.16
19	CircularP	107-961▲	25.99	25.46	23.68	22.55	21.42
37	CircularP	107-962▲	27.84	27.22	25.32	24.13	22.91
Panel Socket - Socket Contacts							
2	CircularS	107-963▲	12.13	11.88	11.03	10.52	9.99
3	CircularS	107-964▲	12.96	12.68	11.79	11.23	10.68
6	CircularS	107-965▲	15.47	15.14	14.06	13.45	12.76
10	CircularS	107-966▲	21.10	20.69	19.22	18.34	17.41
19	CircularS	107-967▲	28.09	27.49	25.54	24.37	23.14
37	CircularS	107-969▲	45.52	44.59	41.40	39.48	37.50

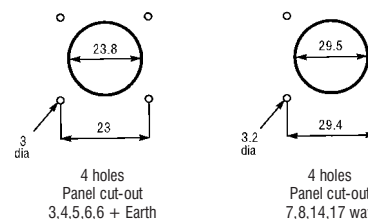
Sealing Accessories

No. of Ways	Insert Type	Sealing Nut	Maximum Cable Diameter Cable Clamp and Right Angle Cable Clamp
2	10SL-4	7.62	7.92
6	14S-6	10.21	11.10
10	18-1	14.99	15.87
19	20A48	17.93	20.62
19	22-14	21.46	20.62
37	28-21	30.23	23.80

Mfrs. List No. Sealing Nut = SBxxA, Cable Clamp = SBxxCCA
Right Angle Cable Clamp = SBxxSEC, where xx = insert type

209366

No. of Ways	Insert Type	Order Code	1+	10+	25+	50+	100+
Sealing Nut							
2	10SL-4	105-5459▲	5.69	5.46	5.08	4.83	4.45
3	10SL-3	105-5461▲	7.95	7.62	7.08	6.72	6.22
Cable Clamp							
2	10SL-4	105-5464▲	18.86	18.14	17.15	16.26	15.25
3	10SL-3	105-5465▲	18.86	18.14	17.15	16.26	15.25
6	14S-6	105-5466▲	12.34	11.88	11.22	10.65	9.99
10	18-1	105-5467▲	13.00	12.49	11.82	11.19	10.51
19	20A48	105-5468▲	9.18	8.83	8.34	7.93	7.44
19	22-14	105-5469▲	10.56	10.16	9.61	9.11	8.55
37	28-21	105-5470▲	13.10	12.60	11.91	11.29	10.59
Right Angle Cable Clamp							
2	10SL-4	105-5472▲	18.82	18.10	17.12	16.23	15.21

'CM' Series Plastic Threaded Coupling
MIL-C-5015-IP67

Plastic screwlocking connectors conforming to **MIL-C-5015** size 14S and 20. Also connection of continuous action and proportional action valves to **DIN 43 563** (draft). A panel mount plug is also available with filter function to prevent EMC. Manufactured from cost effective impact-proof glass-fibre-reinforced plastic these connectors are sealed to **IP67**.

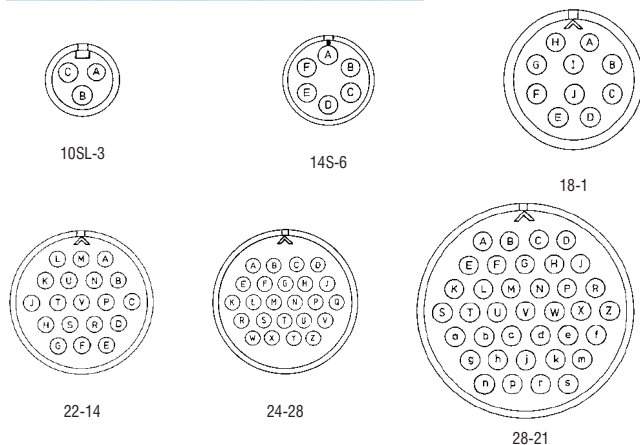
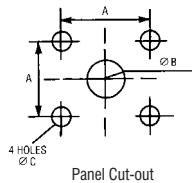
Current Rating	10A 2A 5A 4A	(3,4,5,6,6+ Earth, 8 way) (6+ Earth with filter) (14 way) (17 way)
Voltage Rating	50V ac/dc	
Contact Resistance	$\geq 5m\Omega$ $\leq 4m\Omega$	(3,4,5,6,6+ Earth) (7,8,14,17 way)
Filters	6 X 1nF	
Temperature Range	-40°C to +90°C	
Housing	Glass-fibre reinforced Polyamide/ UL94V-1	
Contact bearer	Glass-fibre reinforced Polyamide/ UL94V-1	
Contacts	Copper Alloy/Silver plated	
Protection	IP67 (DIN 40 050)	
Wire conductor size	1mm ² /20AWG 1.5mm ² /16AWG	(3,4,5,6,6+ Earth) (8,14,17 way)
Cable Gland	PG11/Cable = 8-10mm PG16/Cable = 12-14mm PG13.5/Cable = 10-12mm	(3,4,5,6,6+ Earth) (7,14,17 way) (8 way)
Termination	Solder	

209099

No. of Insert Ways	Type	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
Free Socket								
4	Circular	CM06EA14S-2S	117-6397	10.64	9.69	9.17	8.63	7.90
5	Circular	CM06EA14S-5S	117-6399	9.80	8.93	8.45	7.95	7.28
6	Circular	CM06EA14S-6S	117-6400	11.97	10.90	10.31	9.70	8.87
8	Circular	CM06EA14S-61S	117-6401	11.95	10.88	10.29	9.68	8.85
14	Circular	CM06EA20-7S	494-781	14.59	13.29	12.70	11.97	11.03
17	Circular	CM06EA20-27S	494-793	19.47	17.73	16.95	15.97	14.71
17	Circular	CM06EA20-29S	494-800	22.73	20.70	19.78	18.65	17.18
Panel Plug								
4	Circular	CM02E14S-2P	494-823	4.36	3.98	3.76	3.55	3.25
5	Circular	CM02E14S-5P	494-835	3.40	3.09	2.96	2.79	2.57
6	Circular	CM02E14S-6P	494-847	4.64	4.22	3.99	3.76	3.44
6+E	Circular	CM02E14S-61P	494-859	4.60	4.19	3.96	3.74	3.42
8	Circular	CM02E20-7P	494-884	4.72	4.31	4.11	3.88	3.57
14	Circular	CM02E20-27P	494-896	5.02	4.59	4.37	4.12	3.80
17	Circular	CM02E20-29P	494-902	8.33	7.58	7.25	6.84	6.30
Protective Cap for Panel Plug								
4,5,6,6+Earth	CM02SD14S	117-6402		3.63	3.24	2.98	2.76	2.47
7,8,14,17	CM02SD20	494-926		4.94	4.39	4.05	3.75	3.37
Gasket for Panel Plugs								
Size 20	CM02D20	NEW 758-5764		0.37	0.32	0.28	0.27	0.25

Heavy Duty Threaded Coupling MIL-C-5015

Amphenol



A range of industrial multipole connectors conforming to **MIL-C-5015** with single keyway polarisation.

The aluminium housings are cadmium plated with an olive colour chromate finish giving a high resistance to corrosion. Inserts are diallyl phthalate, providing high arc and insulation resistance under both humidity and thermal stress.

Contact rating except 6 & 24 way
Dielectric voltage
Mating cycles
Temperature range
Housing

13A @ 700V dc or ac peak
13A @ 250V dc or ac peak
2000V ac (Insert 14S-6 1000V ac)
500
-55°C to +125°C
Aluminium alloy

Contacts
Insulator
Wire conductor diameter
Cable Clamp Maximum Wire Diameter

Silver plated Copper Alloy
Diallylphthalate
0.8mm to 1.4mm
22 to 16 AWG

Free Housings

No. of Ways	Insert Type	Length	Coupling Diameter	Cable Clamp Maximum Wire Diameter
3	Circular	34.93	22.23	7.92
6	Circular	36.5	28.58	11.10
10	Circular	50.8	34.11	15.88
19	Circular	53.98	40.46	19.05
24	Circular	57.15	43.64	23.80
37	Circular	57.15	49.99	23.80

Mfrs. List No. 97-3106A-xx y, where xx=insert type and y=P-Pin or S-Socket

Note: Free plugs only mate with panel sockets
Free sockets only mate with panel plugs

208970

No. of Ways	Insert Type	Order Code	1+	10+	25+	50+	100+
Free Plug - Pin Contacts							
6	CircularP	151-615	7.98	7.73	7.41	6.10	5.75
10	CircularP	151-616	12.68	9.42	7.93	7.17	6.42
19	CircularP	151-617	26.60	25.58	24.56	23.69	22.60
24	CircularP	151-618	38.30	37.23	36.23	35.27	34.37
37	CircularP	151-619	24.40	23.74	23.12	22.53	21.96
Free Socket - Socket Contacts							
3	CircularS	151-620	8.99	6.33	5.35	4.83	4.33
6	CircularS	151-621	15.48	14.70	13.38	12.28	11.52
10	CircularS	151-622	20.77	20.15	19.60	19.09	18.60
19	CircularS	151-623	40.02	38.49	37.06	34.51	32.27
24	CircularS	151-624	24.31	18.29	15.55	14.55	12.99
37	CircularS	151-625	51.04	49.66	48.36	47.11	45.94
Cable Clamp and Bush							
Fits 10SL-3 insert	Cable Clamp (Gland)	151-626	6.01	5.47	5.22	4.66	4.25
Fits 14S-6 insert	Cable Clamp (Gland)	151-627	6.06	5.52	2.88	2.57	2.26
Fits 18-1 insert	Cable Clamp (Gland)	151-628	6.90	6.35	3.64	3.55	3.47
Fits 22-14 insert	Cable Clamp (Gland)	151-629	5.90	5.44	2.63	2.36	2.07
Fits 24-28 & 28-21 insert	Cable Clamp (Gland)	151-630	6.82	5.24	5.11	4.97	4.84

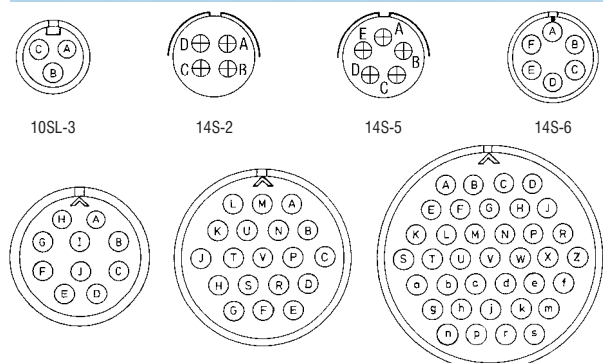
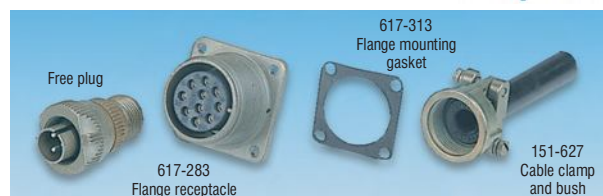
No. of Ways	Insert Type	Overall Length	Flange Width	Panel Cut-out Dimensions	Front Mounting
3	Circular	24.21	25.4	18.24	B (dia.) C (dia.)
6	Circular	23.8	30.15	23.01	20.62 3.25
10	Circular	34.11	34.93	26.97	23.83 3.25
19	Circular	34.11	41.28	31.75	30.18 3.25
24	Circular	34.11	44.45	34.93	36.53 3.95
37	Circular	34.11	50.8	39.67	46.02 3.95

Mfrs. List No. 97-3102A-xx y, where xx=insert type and y=P-Pin or S-Socket

No. of Insert Ways	Type	Order Code	1+	10+	25+	50+	100+
Panel Plug - Pin Contacts							
3	CircularP	151-631	8.13	7.95	7.09	5.50	5.21
6	CircularP	151-632	6.85	6.70	6.00	4.62	4.33
10	CircularP	151-633	9.71	7.00	5.79	5.34	4.78
19	CircularP	151-634	19.75	19.00	18.40	17.59	16.36
24	CircularP	151-635	16.43	16.11	14.32	11.13	10.48
37	CircularP	151-636	32.88	30.77	28.67	25.50	24.40
Panel Socket - Socket Contacts							
6	CircularS	151-638	11.96	10.59	9.50	8.63	7.89
10	CircularS	151-639	10.38	9.86	9.05	6.98	6.56
19	CircularS	151-640	22.68	21.77	20.91	20.15	19.25
24	CircularS	151-641	22.39	21.00	17.73	13.76	12.94
37	CircularS	151-642	24.89	18.72	15.91	14.88	13.29

Heavy Duty Threaded Coupling MIL-C-5015

Amphenol



Circular Multipole - MIL-C-5015 - continued

Heavy Duty Threaded Coupling MIL-C-5015 - continued

	18-1	22-14	28-21
● Sealed neoprene inserts			
● Silver plated solder bucket contacts			
● High corrosion resistant housing			
● Uses 97 Series accessories, cable clamps and dust caps			
● 13 amp or 23 amp rated contacts, 250 or 700V dc rated inserts			
● 2 to 37 way pin or socket contacts in either half			
● Department of Transport specified and approved			
Contact rating	13A @ 700V dc or ac peak		
except 4, 5 & 6 way	13A @ 700V dc or ac peak		
Dielectric withstand voltage	2800V ac (Insert 14S-4, 5 & 6 1400V ac)		
Temperature range	-55°C to +125°C		
Housing	Aluminium alloy		
Contacts	Silver plated Copper Alloy		
Termination	Solder Bucket		
Insulator	Neoprene		
Wire conductor diameter	0.8 - 1.4mm		
	22 - 16AWG		

Free Plug and Socket Housings

No. of Ways	Insert Type	Length	Coupling Diameter	Cable Clamp Max. Wire Diameter
3	Circular	38.18	24.02	7.92
4, 5 & 6	Circular	38.18	28.52	11.10
10	Circular	50.11	33.86	15.88
19	Circular	50.11	40.34	19.05
37	Circular	56.5	49.99	23.80

Note: Free plugs only mate with panel sockets/Free sockets only mate with panel plugs

No. of Insert Ways Type	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
Free Plug - Pin Contacts							
3 Circular	MS3106A-10SL3P	617-039▲	8.06	7.53	7.20	5.58	5.18
4 Circular	MS3106A-14S2P	617-040▲	11.98	11.03	10.56	10.11	9.68
5 Circular	MS3106A-14S5P	617-052▲	9.39	8.74	7.72	6.33	5.99
6 Circular	MS3106A-14S6P	617-064▲	9.53	9.03	8.52	7.15	6.34
10 Circular	MS3106A-18-1P	617-076▲	12.63	11.88	10.77	8.14	7.54
19 Circular	MS3106A-22-14P	617-088▲	19.41	18.22	17.40	15.83	13.86
37 Circular	MS3106A-28-21P	617-090▲	23.99	22.74	21.12	16.92	15.66
Free Socket - Socket Contacts							
3 Circular	MS3106A-10SL3S	617-106▲	9.03	8.31	7.99	7.07	6.58
4 Circular	MS3106A-14S2S	617-118▲	11.18	10.93	9.67	7.51	7.06
5 Circular	MS3106A-14S5S	617-120▲	11.23	10.98	9.70	7.53	7.08
6 Circular	MS3106A-14S6S	617-131▲	9.46	8.62	8.23	6.75	6.31
10 Circular	MS3106A-18-1S	617-143▲	14.67	13.34	6.61	5.87	5.63
19 Circular	MS3106A-22-14S	617-155▲	21.88	19.91	19.05	18.24	17.45
37 Circular	MS3106A-28-21S	617-167▲	31.25	29.60	28.03	23.36	21.29
Cable Clamp and Bush							
Fits Cable Clamp (Gland) 97-3057-1004-1		151-626	6.01	5.47	5.22	4.66	4.25
Fits Cable Clamp (Gland) 97-3057-1007-1		151-627▲	6.06	5.52	2.88	2.57	2.26
Fits Cable Clamp (Gland) 97-3057-1010-1		151-628	6.90	6.35	3.64	3.55	3.47
Fits Cable Clamp (Gland) 97-3057-1012-1		151-629▲	5.90	5.44	2.63	2.36	2.07
Fits Cable Clamp (Gland) 97-3057-1016-1		151-630	6.82	5.24	5.11	4.97	4.84

Flange Receptacles - Pin or Socket Contacts

No. of Ways	Insert Type	Overall Length	Flange Width (nom)	Front Mounting Panel Cut-out Dimensions A (nom)	B (dia.)	C (dia.)
3	Circular	29.56	25.4	18.26	20.62	3.15
4, 5 & 6	Circular	29.56	30.18	23.01	23.83	3.15
10	Circular	40.69	34.93	26.97	30.18	3.15
19	Circular	40.69	41.28	31.75	36.53	3.15
37	Circular	40.67	50.8	39.67	46.02	3.84

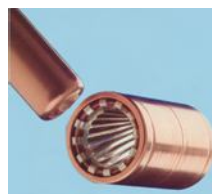
Note: Flange mounting gasket to be used to give IP67 panel sealing

209135

No. of Insert Ways Type	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
Flange Receptacle - Pin Contacts							
2 CircularP	MS3102A-10SL4P	634-610▲	5.04	4.62	4.00	3.78	3.64
3 CircularP	MS3102A-10SL3P	617-179▲	6.12	5.64	5.42	5.14	4.88
4 CircularP	MS3102A-14S2P	617-180▲	6.81	6.27	6.02	5.59	5.18
5 CircularP	MS3102A-14S5P	617-192▲	11.35	11.10	9.88	7.65	7.23
6 CircularP	MS3102A-14S6P	617-209▲	5.54	5.19	4.72	3.65	3.33
10 CircularP	MS3102A-18-1P	617-210▲	9.37	8.69	8.30	6.99	6.29
19 CircularP	MS3102A-22-14P	617-222▲	13.12	11.94	11.42	10.92	10.46
37 CircularP	MS3102A-28-21P	617-234▲	18.02	16.60	15.86	15.16	12.50
Flange Receptacle - Socket Contacts							
3 CircularS	MS3102A-10SL3S	617-246▲	6.67	6.16	5.91	5.66	5.43
4 CircularS	MS3102A-14S2S	617-258▲	8.85	8.32	7.65	5.94	5.58
5 CircularS	MS3102A-14S5S	617-260▲	9.04	8.85	7.81	6.07	5.72
6 CircularS	MS3102A-14S6S	617-271▲	8.18	7.67	7.15	5.58	5.13
10 CircularS	MS3102A-18-1S	617-283▲	10.93	10.07	9.63	9.21	8.40
19 CircularS	MS3102A-22-14S	617-295▲	15.48	14.10	13.48	12.50	11.41
Flange Mounting Gasket							
Fits 10SL flange	62GB-760-10	617-313●	0.42	0.37	0.32	0.25	0.22
Fits 14S flange	62GB-760-14	617-325●	1.00	0.86	0.72	0.62	0.57
Fits 18 flange	62GB-760-18	617-337●	1.30	1.09	0.91	0.79	0.72
Fits 22 flange	62GB-760-22	617-349●	1.58	1.32	1.12	1.00	0.91

The RADSOK® Design

Amphenol



RADSOK® Contact



Twisted Hyperbolic Grid

The RADSOK (RADial SOcKet) is a high amperage, low insertion force electrical terminal. RADSOK technology is based upon a stamped and formed flat grid, uniquely twisted into a hyperbolic geometry to provide robust, high density contact to the mating pin contact.

The RADSOK utilizes the tensile strength properties of the flat, high conductivity grid. This provides the high normal forces required for conductivity while also providing large conductive surface area. Low voltage drop and low temperature rise are also achieved while maintaining low insertion forces.

451636

AMPHE-GTR with RADSOK Technology Free Plug and Chassis Sockets



Amphe-GTR features a high-performance composite plug shell, coupling nut, receptacle and hardware that meets all of the specifications for high power process control and server applications. Compression (setscrew) termination allows easy field replacement of pin or socket contacts or complete plug and receptacle assemblies without specialised tooling.

- Uses RADSOK Technology
- Reverse bayonet coupling
- Quick positive coupling
- Listed to UL/CUL 2238
- No lockwiring required
- Compression set screw termination
- Audible tactile and Visual coupling
- Waterproof (IP67)

Operating Temp.	-55 to +125°C	Shell	High Performance Composite
Insulation Resistance	1000Mohm	Flammability Rating	UL94V-0
D W Voltage	2000VAC (RMS)	Shell Size	32
Contact Plating	Silver		

Mfrs. List No.	10-610222-001 = 128-1455
GT030PCM32-ARP-80 = 128-1452	10-610222-002 = 128-1456
GT06PCM32-ARS-30(29R) = 128-1457	10-610142-001 = 128-1463
GT06PCM32-ARS-40(29R) = 128-1459	10-610142-002 = 128-1464
GT06PCM32-ARS-50(29) = 128-1461	10-610142-003 = 128-1465
GT06PCM32-ARS-70(290S) = 128-1462	10-610142-004 = 128-1466
10-610147-001 = 128-1453	

451754

No. of Wire Ways	Wire Size	Current Rating	Order Code	1+	10+	25+	50+
4 Way Receptacle							
4	6 - 4AWG	80A	128-1452●	36.28	34.15	32.74	31.15
4 Way Plugs							
4	10 - 8AWG	30A	128-1457●	55.71	--	--	--
4	10 - 8AWG	40A	128-1459●	109.08	100.78	97.23	92.49
4	6 - 4AWG	50A	128-1461●	109.08	100.78	97.23	92.49
4	6 - 4AWG	70A	128-1462●	98.17	90.71	87.51	83.24
5 Way Receptacle - Contacts rated at 120A, but limited to AWG							
5	10 - 8AWG	120A	128-1453●	82.40	77.07	73.63	70.54
5	10 - 8AWG	120A FBLM	128-1455●	82.40	77.07	73.63	70.54
5	6 - 4AWG	120A FBLM	128-1456●	74.16	69.37	66.27	63.50
5 Way Plugs							
5	6 - 4AWG	50A	128-1465●	108.85	101.37	98.18	94.97
5	6 - 4AWG	70A	128-1466●	120.95	112.63	109.08	105.52

FOR MORE INFORMATION & CHOICE

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Radsok



RoHS Compliant Items Only | Advanced Search

Coming soon

Register your interest for items that are 'Coming Soon' at www.farnell.co.uk and we'll email you to let you know that they're in stock.



40,000 PRICES REDUCED

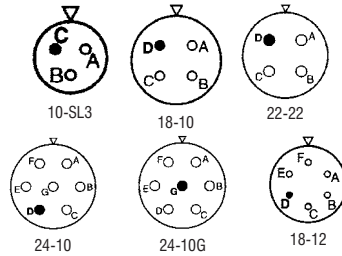


DL 5015 Pre-Mating Earth

First Mate Last Break (FMLB)



Amphenol



Designed for applications where a protective circuit from the ground contact to the shell is a safety requirement.

- Protects operators and sensitive circuits from voltage outputs
- Approved to DIN VDE 0627 06.86
- Intermateable with standard MIL-C-5015 connectors
- MIL-C-5015 dimensions and performance
- Intermateable with MS5015 and 97 Series
- IP67 protection when mated
- Typical applications factory automation, machine tools and process control

Typical application include traffic management and lights, machine tools and mining.

NB Pre Earth contact in plug only 24-10(G)

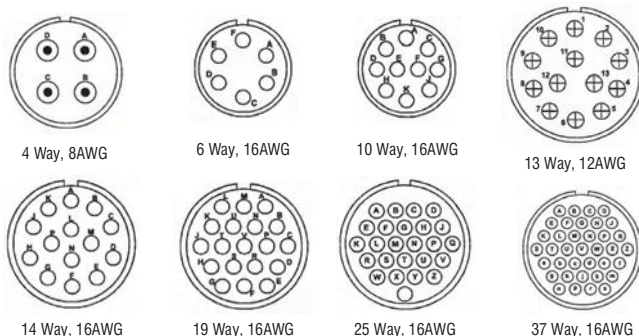
Specification	Size 16 Contacts	Size 12 Contacts	Size 8 Contacts
Current Rating	13A	23A	46A
Voltage Rating AC	200V rms	250V rms	250V rms
Voltage Rating DC	300V	350V	350V
Wire Size AWG	22 to 16	14 to 12	10 to 8
DWV (AC Vrms)	2000		
Insulation Resistance	≥5000 MΩ (DC500V)		
Shell Material	Aluminium		
Shell Finish	Black Zinc Cobalt		
Contacts	Solder Bucket		

233616

Shell Size	No. Contacts	Contact Size	Mfrs List No.	Order Code	1+	10+	50+
Chassis Receptacles							
10SL	3	16	DL3102A10SL-3P	391-1056▲	8.69	8.04	7.10
18	4	12	DL3102A18-10P	391-1070▲	8.30	7.68	6.75
22	4	8	DL3102A22-22P	391-1093▲	10.21	9.44	8.33
Cable Plugs							
10SL	3	16	DL3106A10SL-3S	391-1068▲	7.42	6.83	6.05
18	4	12	DL3106A18-10S	391-1081▲	12.41	11.49	10.14
10SL	4	22	DL3106A22-22S	391-1100▲	16.49	15.24	13.44
Cable Clamps							
Size 10SL			DL3057-4A	391-1196▲	3.26	2.98	2.62
Size 18			DL3057-10A	391-1202▲	3.12	2.85	2.52

Cable and Panel Mounting Plugs and Sockets

Low Halogen Construction



- Ideal for heavy industrial applications and harsh environments particularly where low smoke emission is important
- Based on the MS series of connectors conforming to the **MIL-C-5015** specification
- Interchangeable with all corresponding MS bayonet types
- The pin and socket arrangement is designed to suit applications involving heavy vibration
- Both power and communication signals can be accommodated within the same shell
- **IP67** rated
- Complies with requirements of **BS9522**, **F0032** and **VG 95234**
- Low halogen mouldings meet requirements of the French **NF F 16-101** and **BS6853** specifications
- Unaffected by contaminants

Voltage rating	350V	16AWG, 13A
Current rating	12AWG, 23A	Aluminium alloy Insulator MATERIAL low halogen rubber

Operating temperature
Mating cycles
Vibration

-55°C to +125°C
Min.500
5 to 5000Hz long endurance

Shock
Acceleration

30 hour test
75g
50g

227275

No. of Contacts	Planform	Order Code	1+	Price Each 10+	50+
Cable Mounting Sockets					
6	18-12	313-3655▲	23.86	21.78	19.96
10	18-19	313-3643▲	17.89	16.33	14.97
19	22-14	313-3631▲	20.09	18.30	16.96
37	28-27	313-3620▲	21.76	19.91	18.00
Panel Mounting Plugs					
4	24-22	313-3588▲	19.59	17.84	16.16
6	18-12	313-3540▲	19.59	17.84	16.49
10	18-19	313-3539▲	15.68	14.27	13.20
19	22-14	313-3527▲	14.41	13.12	12.13
37	28-21	313-3515▲	16.01	14.55	13.67

Contacts



- For use with cable mounting sockets and panel mounting plugs above
- Gold plated crimp contacts in 16, 12, and 8 AWG

227279

Order Multiple=10	Wire Size (AWG)	Order Code	10+	Price Each 100+	500+
Pin Contacts					
16	16	313-4090▲	0.38	0.35	0.32
16	20	313-4088▲	0.38	0.35	0.32
Socket Contacts					
16	16	313-4209▲	0.81	0.73	0.66
16	20	313-4192▲	0.81	0.73	0.66

Tooling



- Complete tool range for Low Halogen Construction connectors
- Size 12 and 16 crimp tool with insertion and extraction tools
- Size 8 crimp tool is hydraulic
- Size 8 contacts do not require insertion or extraction tools

230351

Description	Mfrs. List No.	Order Code	Price Each 1+
Crimp Tools			
Size 12 and 16 contacts	AF8	890-376	254.02
Die Sets			
Size 12 and 16 contacts	TH592	358-5621	107.80
Insertion Tools			
Size 16 contacts	DAK32	358-5669	64.82
Extraction Tools			
Size 16 contacts	DRK32	358-5682	49.00
Size 12 contacts	DRK152	358-5694	49.00

Rectangular Multipole

Compact Connector System 'ST 16/2'



- The ST16 is the latest in connection technology for low voltage lighting application
- 2 poles, one pluggable part Female/male parts combined in one connector
- Secure locking feature
- Mechanically coded

Current rating	25A	Contacts	Copper Alloy, Silver
Voltage rating	48V a.c	Conductor size	0.5mm ² to 2.5mm ²
Connector housing	Polyamide 6.6		

209173

Order Multiple = 10	Mfrs. List No.	Order Code	10+	Price Each 50+	100+	250+
Rewireable Plug	93.016.0053.0	117-2832●	0.97	0.91	0.87	0.83

RITS Interconnection System



- Termination by generic tools
- Small 2mm pitch
- Two contact points structure assures high contact reliability
- Housing colours indicate applicable wire ranges



JST
The Quality Connection

RITS (Remote I/O Terminal System) connectors offer easy connection method as well as total cost reduction with higher electrical reliability without special skills to work, using Chisel Press Contact. This is the new wire termination technology which can be applied to many kinds of wire from solid to multi-stranded commonly used in FA industries. RITS has three major features: Chisel, Press and Retention. The chisel shaped contact pierces into the cable to secure a much larger contact area. The press function keeps the contact pressure for life. The retention mechanism retains the cable at higher retention force than IDC connectors. Connection is easy: Insert cable to a housing and pinch the housing with a generic tool such as pliers.

Current Rating	3A	Insulation Outside Diameter - Blue	1.15 to 1.35mm
Voltage Rating	32V	Insulation Outside Diameter - Green	1.35 to 1.6mm
Insulation Outside Diameter - Orange	0.9 to 0.6mm		

418557



418560

Colour	No. of Ways	Mfrs. List No.	Order Code	1+	50+	100+
Orange	3	3-1473562-3	107-7401●	1.30	1.21	1.15
Yellow	3	1473562-3	107-7392●	1.30	1.21	1.15
Blue	3	2-1473562-3	107-7394●	1.30	1.21	1.15
Green	3	4-1473562-3	107-7400●	1.30	1.21	1.15
Orange	4	3-1473562-4	107-7402●	1.36	1.24	1.19
Yellow	4	1473562-4	970-1956●	1.41	1.30	1.24
Blue	4	2-1473562-4	970-1966●	1.41	1.30	1.24
Orange	6	3-1473562-6	107-7403●	1.50	1.40	1.34
Yellow	8	1473562-8	107-7398●	1.87	1.74	1.66



418563

Colour	No. of Ways	Mfrs. List No.	Order Code	1+	50+	100+
Blue	3	2-1746741-3	107-7404●	1.38	1.27	1.21
Red	4	1-1746741-4	107-7407●	1.15	1.07	1.03
Yellow	4	1746741-4	107-7406●	1.08	1.00	0.96
Blue	4	2-1746741-4	107-7408●	1.08	1.00	0.96
Green	4	4-1746741-4	107-7412●	1.53	1.42	1.37
Yellow	8	1746741-8	107-7410●	1.37	1.27	1.21



418564

No. of Ways	Mfrs. List No.	Order Code	1 +	Price Each 50+	100+
Single Row					
3	1473565-3	107-7413●	1.31	1.22	1.17
4	1473565-4	107-7414●	1.49	1.39	1.34
5	1473565-5	107-7415●	1.84	1.71	1.64
6	1473565-6	107-7416●	2.02	1.87	1.80
8	1473565-8	107-7418●	2.47	2.29	2.18
4 Row					
4	1473567-4	107-7419●	2.73	2.55	2.44

- Housing Lock for secure mating
- Double Leaf Contact Construction
- IP67 Rating

Current Rating	3.0A AC DC	Plating	Tin
Pitch	2mm	Housing	Nylon
Voltage	100V AC DC	Applicable Wire	AWG 26 to 22
Contacts	Phosphor Bronze - Female		OD 1.4mm to 1.74mm
	Brass - Male	Temperature Range	-25°C to +85°C

454720

Order Multiple=5		Price Each				
No of WaysMfrs. List No.		Order Code	5+	25+	50+	100+
Receptacle Housing Assembly						
2	02R-JWPF-VSLE-S	384-9806●	0.520	0.370	0.340	0.330
3	03R-JWPF-VSLE-S	384-9820●	0.600	0.430	0.400	0.380
4	04R-JWPF-VSLE-S	384-9843●	0.610	0.430	0.400	0.380
Tab Housing Assembly						
2	02T-JWPF-VSLE-S	384-9818●	1.090	0.770	0.730	0.680
3	03T-JWPF-VSLE-S	384-9831●	1.200	0.860	0.770	0.730
4	04T-JWPF-VSLE-S	384-9855●	1.250	0.890	0.830	0.790
PCB Header						
2	B02B-JWPF-SK-R(LF)(SN)	132-4125●	1.150	0.990	0.900	0.860
3	B03B-JWPF-SK-R(LF)(SN)	132-4126●	1.190	1.020	0.940	0.890
4	B04B-JWPF-SK-R(LF)(SN)	132-4127●	1.370	1.200	1.100	1.020
Order Multiple=10			Price Each			
			10+	100+	500+	1K+
Contacts for JWPF						
Socket	SWPR-001T-P025	384-9788●	0.051	0.047	0.045	0.042
Tab	SWPT-001T-025	384-9790●	0.043	0.038	0.036	0.034
			Price Each			
			1+			
Crimp Tool WC-JWPF		434-1430●	198.220			
Extraction						
Tool	EJ-JWPF	434-1442●	155.250			

molex

The MX150L sealed connector system is designed to meet the needs for a rugged, environmentally sealed connector system supporting both low-level signal applications and power applications up to 18A. With the MX150L connector, completing the application is as simple as crimping the appropriate terminal, poking it into place and plugging the housings together. There is no need for additional application of individual wire seals.

Crimp terminals Can be provided either on a strip or loose. A "long" version is available where a first-mate last-break terminal is required for hot plug applications.

- Environmentally sealed to **IP67** and USCAR-2, Rev. 3 standards
- Integrated mat wire seal
- Integrated interface seal
- Simple crimp and poke application
- Supports 22-18 and 16-14 AWG wire range

Dielectric withstand voltage	1500V ac	Contacts - Current Max.	
Insulation resistance	1000Mohm	Operating temperature	-40°C to 125°C
Contacts - Voltage Max.			

347336

No. of Ways	Wire Range AWG	Mftrs List No.	Order Code	1 +	50 +	100 +	500 +
MX150L Plug							
2	22 - 18	0194190008	732-2836●	4.550	4.080	3.620	3.220
2	16 - 14	0194190007	732-2828●	4.420	3.960	3.520	3.130
4	16 - 14	0194190004	732-2844●	4.020	3.600	3.200	2.860
8	16 - 14	0194190002	732-2895●	3.780	3.390	3.020	2.670
10	22 - 18	0194190015	732-2917●	4.970	4.450	3.680	3.530
10	16 - 14	0194190014	732-2909●	6.630	5.930	4.900	4.690
12	16 - 14	0194190018	101-3192●	5.580	4.760	4.000	3.850
16	16 - 14	0194190021	101-3194●	5.270	4.510	3.760	3.630
MX150L Receptacle							
2	22 - 18	0194180008	732-2739●	3.990	3.580	3.160	2.840
2	22 - 18	0194180005	732-2755●	3.430	3.070	2.720	2.440
4	16 - 14	0194180004	732-2747●	4.440	3.970	3.530	3.140
10	22 - 18	0194180014	732-2810●	7.100	6.370	5.670	5.040
10	16 - 14	0194180013	732-2801●	7.100	6.370	5.670	5.040
12	22 - 18	0194180026	101-3186●	6.280	5.370	4.500	4.330

No. of -	Wire Range	Mfrs	Price Each				
MX150L Receptacle							
12	16 - 14	0194180027	101-3187●	4.720	4.040	3.380	3.240
16	22 - 18	0194180029	101-3188●	7.350	6.280	5.250	5.040
16	16 - 14	0194180030	101-3189●	7.350	6.280	5.250	5.040
Terminal - Male				Price Per Terminal			
Order Multiple=10				10 +	50 +	100 +	500 +
Strip	22 - 18	0194170024	732-2674●	0.104	0.094	0.078	0.075
Terminal - Female				Price Per Terminal			
Order Multiple=10				10 +	50 +	100 +	500 +
Strip	22 - 18	0194200002	732-2933●	0.096	0.085	0.075	0.067
Strip	16 - 14	0194200001	732-2925●	0.096	0.085	0.075	0.068
Loose	22 - 18	0194200010	732-2950●	0.109	0.104	0.094	0.078
Hand tools				Price Each			
				1+			
Crimp Tool		638114400	835-5312	519.780			

MX150L™ IP67 Sealed Connector System

MX150L™ 8,10,12 AWG



To further expand the MX150L™ connector system Molex introduces the sealed panel-mount plugs for 8, 10 and 12 AWG applications. This new design provides additional options, allowing customers to design the ideal solution for their end product.

Dielectric withstand voltage 1500V ac
Insulation resistance 1000Mohm
Contacts - Current Max.
Operating temperature -40°C to 125°C
Contacts - Voltage Max.

New

509386

No. of - Ways	Wire Range AWG	Mfrs List No.	Order Code	1+	Price Each			
					50+	100+	500+	
MX150L Plug								
2	10 - 12	19433-0013	158-0439●	2.12	1.88	1.67	1.49	
2	8	19433-0014	158-0440●	2.12	1.88	1.67	1.49	
4	10 - 12	19433-0001	158-0443●	2.71	2.41	2.14	1.90	
4	8	19433-0002	158-0444●	2.71	2.41	2.14	1.90	
MX150L Receptacle								
2	10 - 12	19432-0013	158-0436●	3.10	2.73	2.45	2.16	
2	8	19432-0014	158-0438●	3.10	2.73	2.45	2.16	
4	10 - 12	19432-0001	158-0441●	4.59	4.05	3.62	3.19	
4	8	19432-0002	158-0442●	4.59	4.05	3.62	3.19	
MX150L Panel mount plug with Gasket								
2	8	19436-0214	158-0445●	3.22	2.85	2.55	2.24	
2	10 - 12	19436-0213	158-0446●	3.22	2.85	2.55	2.24	
4	8	19436-0412	158-0447●	3.66	3.22	2.90	2.55	
4	10 - 12	19436-0411	158-0448●	3.66	3.22	2.90	2.55	
Terminal - Male				Price Per Terminal				
Order Multiple=10				10+	50+	100+	500+	
	10 - 12	19431-0016	158-0453●	0.31	0.29	0.26	0.25	
	8	19431-0017	158-0454●	0.31	0.29	0.26	0.25	
Terminal - Female				Price Per Terminal				
Order Multiple=10				10+	50+	100+	500+	
	10 - 12	19434-0003	158-0451●	0.31	0.29	0.26	0.25	
	8	19434-0004	158-0452●	0.31	0.29	0.26	0.25	
Blind Cavity Plug				Price Per Plug				
Order Multiple=10				10+	50+	100+		
		19431-0013	158-0455●	0.31	0.29	0.26		
Hand tools				Price Each				
				1+				
Crimp Tool	10-12 AWG	63811-5300	158-0456		168.04			
Crimp Tool	8 AWG	63811-5400	158-0457		168.04			
Extraction Tool		63813-1500	158-0458		29.05			

SM Connectors, 2.5mm Pitch

Crimp Style Wire-to-Wire

JST

Taiwan Quality Connectors



- Wire to wire connectors
- 2.5mm pitch
- High contact pressure
- All contacts are individually surrounded by housing walls
- Protection from deformation or mismatch
- Locking mechanism
- CSA approved
- UL Recognised

Current rating 3A AC, DC
Voltage rating 250V AC, DC
Withstanding voltage 1.5kVac @ 1 min
Insulation resistance 500MΩ min

Contact resistance 10mΩ max
Temperature range -25°C to +85°C
Housing White, Nylon 66, UL94V-0
Crimp contacts Phosphor Bronze, Tin

Wire Size mm² AWG Insulation Dia. O.D. (mm)
0.08-0.33 22-28 1.2-1.8
0.08-0.33 22-28 1.2-1.8

Mfrs. List No.
SMP-02V-NC = 335-7685
SMP-06V-NC = 335-7715
SMR-04V-N = 335-7740
BHF-001T-0.8BS = 335-7673

SMP-03V-NC = 335-7697
SMR-02V-N = 335-7727
SMR-06V-N = 335-7752
WC-122 = 335-7958

SMP-04V-NC = 335-7703
SMR-03V-N = 335-7739
BYM-001T-P0.6 = 335-7661
WC-121 = 335-7946

209317

Order Multiple = 5	No. of Ways	Order Code	5+	10+	50+	250+	500+
Housing - Socket Contacts							
	2	335-7685●	0.450	0.440	0.420	0.370	0.330
	3	335-7697●	0.470	0.460	0.450	0.390	0.340
	4	335-7703●	0.530	0.520	0.510	0.460	0.390
	6	335-7715●	0.710	0.700	0.660	0.580	0.510
Housing - Pin Contacts							
	2	335-7727●	0.480	0.470	0.460	0.410	0.350
	3	335-7739●	0.520	0.510	0.490	0.450	0.380
	4	335-7740●	0.660	0.650	0.630	0.560	0.480
	6	335-7752●	0.690	0.680	0.650	0.580	0.500
Order Multiple = 10							
Pin Contacts			10+	50+	100+	500+	1K+
Socket Contacts			10+	50+	100+	500+	1K+
Order Multiple = 1							
Crimp Tools							
Pin Contact			1+	5+			
Socket Contact			1+	5+			
		335-7946	306.730	300.130			
		335-7958	306.730	300.130			

Commoning Block



- 10 way multiple commoning connector
- Tin plated brass terminals
- Polyester housing

236525

Order Multiple = 1	Mfrs. List No.	Order Code	1+	Price Each	50+	100+
Block						
	07-01-7101	393-5711●	1.600	1.470	1.310	
Order Multiple = 10						
Terminals			10+	100+	500+	
0.5-0.75mm	05-02-0048	393-5735●	0.157	0.151	0.143	
1.0-1.5mm	05-02-0050	393-5723●	0.117	0.112	0.107	

Micro-Fit 3.0™ WTW / WTB Connectors

3.0mm Pitch

molex

- Max 5A
- 3.0mm grid spacing
- Positive latch prevents accidental disconnection
- Fully isolated contacts
- Polyester 94V-0 housings
- Single and Dual row configuration

Maximum voltage 250V ac
Current rating 5A/circuit
Contact resistance 10mΩ max

Dielectric strength 1500V ac
Terminals Phosphor Bronze, Tin plated

209164

Micro-Fit 3.0™ Wire-to-Wire Plugs & Receptacles

3.0mm Pitch

molex



Mfrs. List No: Free Receptacle = 43025-XX00
Panel Mounting = 43020-XX00, where XX = No of ways
Inline Receptacle = 43645-XX00
Inline Plugs - Panel Mount = 43640-XX00
Inline Plugs - Free Hanging = 43640-XX01

209152

Order Multiple = 10	No. of Ways	Order Code	10+	100+	250+	500+	1K+
Free Receptacle - Accepts socket contacts - Dual Row							
	2	672-889●	0.420	0.300	0.230	0.176	0.157
	4	672-890●	0.470	0.380	0.260	0.210	0.184
	6	672-907●	0.540	0.440	0.320	0.240	0.210
	8	672-919●	0.620	0.490	0.350	0.280	0.230
	10	672-920●	0.730	0.590	0.470	0.390	0.340
	12	629-285●	0.860	0.690	0.490	0.410	0.350
	14	629-297●	1.010	0.810	0.580	0.460	0.410
	16	996-1321●	0.810	0.640	0.600	0.540	0.470
	18	996-1330●	0.880	0.820	0.790	0.750	0.650
	20	629-303●	1.300	1.160	0.840	0.660	0.580
	22	996-1348●	1.040	0.980	0.930	0.890	0.850
	24	629-315●	1.580	1.400	1.010	0.800	0.700
Inline Receptacle - Accepts socket contacts - Single Row							
	2	307-6015●	0.460	0.350	0.230	0.210	0.197
	3	307-6027●	0.490	0.350	0.250	0.240	0.230
	4	307-6039●	0.530	0.450	0.370	0.290	0.210
	6	307-6052●	0.740	0.580	0.390	0.380	0.370



Rectangular Multipole - continued

Micro-Fit 3.0™ Wire-to-Wire Plugs & Receptacles - continued

3.0mm Pitch - continued

Order Multiple=10 No. of Ways	Order Code	10+	100+	250+	500+	1K+
Panel Mount Plug - Accepts pin contacts - Dual Row						
2	672-932●	0.420	0.300	0.230	0.182	0.159
4	672-944●	0.490	0.390	0.260	0.210	0.186
6	672-956●	0.550	0.450	0.320	0.240	0.220
8	672-968●	0.630	0.510	0.350	0.280	0.250
10	672-970●	0.740	0.600	0.420	0.340	0.300
12	629-327●	0.880	0.700	0.490	0.410	0.350
14	634-694●	1.030	0.820	0.580	0.460	0.420
16	996-1283●	0.820	0.720	0.680	0.640	0.600
18	996-1305●	0.700	0.650	0.630	0.590	0.530
20	634-700●	1.470	1.170	0.910	0.700	0.630
24	634-712●	1.630	1.420	1.010	0.800	0.720
Inline Plugs - Panel Mount - Accepts pin contacts - Single Row						
2	307-6064●	0.460	0.350	0.230	0.193	0.189
3	307-6076●	0.490	0.390	0.240	0.210	0.200
Inline Plugs - Free Hanging - Accepts pin contacts - Single Row						
2	307-6118●	0.460	0.350	0.230	0.184	0.180
3	307-6120●	0.490	0.390	0.240	0.200	0.173
4	307-6131●	0.530	0.420	0.260	0.210	0.186
5	307-6143●	0.570	0.490	0.410	0.330	0.250
6	307-6155●	0.630	0.540	0.450	0.360	0.270

Micro-Fit 3.0™ Straight and 90° Wire-to-Board Headers

3.0mm Pitch



Mfrs. List No. Straight header = 43045-XX12, 90° Header = 43045-XX00, SMT header single row RA = 43650-XX12, where XX = No. of Ways PCB header single row RA = 43650-XX00, where XX = No. of Ways

molex

249744

No. of Ways	Order Code	10+	100+	250+	500+	1K+
Straight Header - Pin Contacts - Dual Row						
2	973-3000●	0.85	0.68	0.56	0.47	0.30
4	101-2247●	1.19	0.92	0.59	0.49	0.35
6	101-2248●	1.50	1.19	0.76	0.61	0.44
8	101-2249●	1.81	1.43	0.92	0.74	0.54
10	101-2250●	2.13	1.70	1.08	0.86	0.63
12	973-2950●	2.44	1.93	1.23	0.99	0.72
14	973-2969●	2.77	2.19	1.39	1.13	0.82
16	996-1356●	2.47	2.19	2.02	1.81	1.59
18	996-1364●	2.92	2.31	2.12	1.87	1.63
20	101-2243●	3.83	3.05	1.94	1.55	1.13
24	101-2244●	4.60	3.66	2.32	1.88	1.36
90° Header - Pin Contacts - Dual Row						
2	101-2251●	1.03	0.82	0.59	0.47	0.31
4	973-3019●	1.42	1.13	0.73	0.58	0.41
6	101-2252●	1.80	1.43	0.91	0.73	0.53
8	101-2254●	2.19	1.74	1.11	0.89	0.65
10	101-2255●	2.57	2.04	1.31	1.05	0.76
12	973-2977●	2.96	2.34	1.50	1.20	0.87
14	973-2985●	3.32	2.65	1.67	1.35	0.98
16	996-1380●	2.75	2.54	2.34	2.06	1.87
18	996-1399●	2.66	2.18	2.01	1.78	1.63
20	973-2993●	4.63	3.69	2.36	1.89	1.37
22	996-1402●	2.91	2.41	2.31	2.06	1.90
24	101-2245●	5.56	4.41	2.84	2.27	1.65
RA PCB Header - Single Row - With Board Locks						
3	101-2231●	2.51	2.09	1.80	1.51	1.40
4	101-2232●	1.45	1.13	0.99	0.97	0.95
6	121-1000●	1.84	1.43	1.36	1.34	1.30

Micro-Fit 3.0™ Wire-to-Board Headers

3.0mm Pitch



Mfrs. List No. Straight Header = 43045xx18, 90° Header = 43045xx09, where xx = No. of ways

- Surface mount wire-to-board header
- Solder tabs provide retention to PCB
- Locking ramp for secure mating retention to a dual row receptacle (43025)
- Fully isolated terminals to protect contacts from damage
- Polarized to receptacle to prevent mismatching

414422

molex

SMD

No. of Ways	Order Code	1+	100+	250+	500+	1K+
Header - Vertical						
2	996-1410●	1.04	0.89	0.82	0.71	0.67
4	996-1429●	1.52	1.30	1.18	1.02	0.98
6	996-1437●	1.72	1.47	1.35	1.16	1.09
8	996-1445●	1.97	1.68	1.53	1.34	1.24
14	996-1470●	2.25	1.93	1.77	1.53	1.45
18	996-1496●	3.39	2.90	2.64	2.29	2.16
20	996-1500●	2.75	2.36	2.13	1.84	1.74
22	996-1518●	2.95	2.52	2.30	1.99	1.89
24	996-1526●	3.15	2.68	2.46	2.11	2.02
Header - 90°						
2	996-1534●	1.41	1.18	1.09	0.94	0.90
4	996-1542●	1.53	1.31	1.19	1.03	0.98
6	996-1550●	1.83	1.56	1.43	1.22	1.16
8	996-1569●	2.29	1.96	1.78	1.54	1.46
10	996-1577●	2.33	1.98	1.81	1.56	1.49
12	996-1585●	2.81	2.40	2.19	1.90	1.81
14	996-1593●	3.10	2.64	2.40	2.07	1.97
16	996-1607●	2.52	2.14	1.97	1.69	1.61
20	996-1623●	4.15	3.55	3.22	2.79	2.64
22	996-1631●	2.92	2.49	2.26	1.97	1.85
24	996-1640●	3.61	3.08	2.81	2.43	2.30

Crimp Terminals for Micro-Fit 3.0™

molex



Contacts phosphor bronze, tin plated

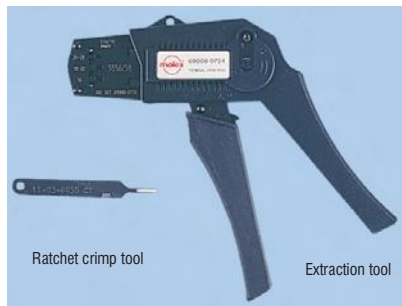
	Wire Size (AWG)	Wire Size (mm)	Insulation Diameter (max)	Mfrs. List No.	Order Code
Pin	20-24	0.2-0.5	1.65	43031-0007	101-2256
Pin	26-30	0.05-0.12	1.52	43031-0010	973-3043
Socket	20-24	0.2-0.5	1.65	43030-0007	973-3027
Socket	26-30	0.05-0.12	1.52	43030-0010	973-3035

209151

100 Per Pack	AWG	Order Code	1+	5+	10+	25+
Pin	20-24	101-2256●	13.05	10.28	8.47	6.97
Pin	26-30	973-3043●	13.05	10.28	8.47	6.97
Socket	20-24	973-3027●	13.05	10.30	8.48	6.98
Socket	26-30	973-3035●	13.05	10.28	8.47	6.97

Tooling for Micro-Fit 3.0™

molex



Mfrs. List No. 63819-0000=160-2635, 1103-0043=658-649

209163

Terminal Size (AWG)	Order Code	Price Each 1+
Crimp Tool 20-30	160-2635●	180.64
Extraction Tool	658-649	21.56

Micro-Fit 3.0™ Cable Assemblies

Double Ended Receptacle

molex



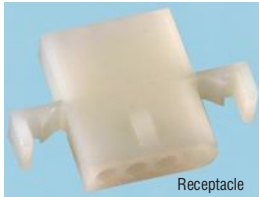
- Fully polarized housing prevents accidental mismatching
- Positive latch prevents accidental disconnects
- Locking tang on terminal secures terminals in the housings
- 26 AWG jacketed cable

Voltage	250V	Operating Temperature	-40°C to +105°C
Current Rating	5A	Contact Area	Phosphor Bronze

476310

No. of Cable Ways	Cable Length (M)	Mfrs. List No.	Order Code	1+	10+	50+	+	+
2	3	79516-1023	139-1528●	4.14	3.87	3.56	--	--
4	1	79516-1041	139-1530●	4.19	3.93	3.60	--	--
4	3	79516-1043	139-1531●	7.75	7.24	6.67	--	--
6	1	79516-1061	139-1533●	5.07	4.73	4.35	--	--
6	3	79516-1063	139-1534●	6.73	6.29	5.78	--	--

Standard 0.062" Pin and Socket Plugs and Receptacles



Receptacle



Plug

- Housing may be used to accommodate either pin or socket contacts
- Fully polarised to prevent mismatching

Current 5A
Rated voltage 250V
Temperature Range -40°C to +105°C
Housing Material PA Polyamide (Nylon 66), **UL94V-2**

- Friction lock for secure mating
- Available in 2 through to 12 way
- Approvals: **CSA, & UL** Recognised

Colour Natural
Contact Material Brass, with Tin finish
Pitch 3.68mm

417801

Order Multiple=5		Mfrs. List No.		Price Each			
No. of Ways		Order Code	5+	50+	100+	500+	
Panel Mount Plugs - Accepts pin or socket contacts							
2	3062024	107-9897 ●	0.200	0.192	0.180	0.144	
3	3062033	107-9898 ●	0.112	0.106	0.100	0.082	
4	30-06-2041	107-9899 ●	0.220	0.180	0.171	0.145	
6	03-06-2062	107-9900 ●	0.320	0.310	0.300	0.280	
Receptacle - Accepts pin or socket contacts							
2	3061022	107-9891 ●	0.240	0.220	0.200	0.192	
4	03-06-1041	107-9893 ●	0.240	0.220	0.192	0.167	
6	3061061	107-9894 ●	0.430	0.410	0.370	0.360	
9	03-06-1091	107-9895 ●	0.240	0.220	0.200	0.195	
Order Multiple = 10			10+	100+	500+	1K+	
Pin Contacts							
24-30AWG Pin Contact	02-06-2132	107-9903 ●	0.108	0.097	0.084	0.071	
18-24AWG Pin Contact	02-06-2103	107-9887 ●	0.108	0.098	0.084	0.071	
Socket Contacts							
24-30AWG Socket Contact	02-06-1132	107-9904 ●	0.108	0.097	0.084	0.072	
18-24AWG Socket Contact	2061103	107-9889 ●	0.108	0.098	0.084	0.071	
Tooling							
Crimp Tool, 18-24AWG	63819-1300	157-2014 ●	155.710				
Insertion Tool	11-02-0001	107-9909	27.620				
Extraction Tool	11-03-0002	107-9908	27.620				

Mini-Fit Jr.™ Crimp Power Connectors

4.20mm Pitch

A range of high power and high density wire-to-wire, wire-to-panel and wire-to-board connectors. These dual row connectors are designed for power interconnection where space is at a premium. An audible click and polarisation ensure correct mating. **UL** recognised and **CSA** certified.

Maximum voltage 250V ac
Current rating 2 way 9A, 4/6 way 8A, 8/10 way 7A
Dielectric strength
Contact resistance
Housing
Terminals
6A
1500V ac
10mΩ max
Clear nylon 6/6, **UL94V-2**
Brass, Tin plated

208971

Mini-Fit Jr.™ Single Row Crimp Housings & PCB Headers

4.20mm Pitch



- Peg-mounted for increased board retention
- Low profile for space constraints
- Positive housing locks
- Fully isolated terminals to protect contacts from damage

Mfrs. List No. Receptacle = 390114xx0, Plug = 39014xx6, Header = 39302xx5, R/A Header = 39303xx5, where xx=No. of ways

414411

No. of Ways	Order Code	1+	100+	250+
Receptacle - Accepts Socket Contacts				
3	996-3480 ●	0.37	0.35	0.34
4	996-3499 ●	0.42	0.39	0.37
5	996-3502 ●	0.37	0.35	0.34
Plug - Accepts Pin Contacts				
3	996-3510 ●	0.37	0.35	0.34
4	996-3529 ●	0.42	0.39	0.37
5	996-3537 ●	0.27	0.26	0.25
Right Angle Header - Pin Contacts				
3	996-3545 ●	1.07	1.01	0.98
4	996-3553 ●	0.54	0.51	0.48
5	996-3561 ●	0.49	0.47	0.44
Header - Pin Contacts				
3	996-3570 ●	0.85	0.80	0.77
4	996-3588 ●	0.96	0.86	0.75
5	996-3596 ●	0.69	0.63	0.61

Over 480,000 products online



Micro-Fit Jr.™ Double Row Crimp Housings & PCB Headers

4.20mm Pitch

molex



Free Receptacle

Panel Mount Plug

Mfrs. List No. Free Receptacle=39-01-2xx0, Panel Mount Plug=39-01-2xx1, where xx=No. of ways

208972

No. of Ways	Order Code	1+	100+	250+
Free Receptacle - Accepts Socket Contacts				
2	151-866 ●	0.270	0.220	0.165
4	151-867 ●	0.350	0.280	0.197
6	151-868 ●	0.430	0.320	0.240
8	151-869 ●	0.450	0.360	0.270
10	151-870 ●	0.530	0.420	0.340
12	151-871 ●	0.570	0.450	0.340
14	996-3243 ●	0.290	0.270	0.260
16	413-8399 ●	0.410	0.380	0.370
18	996-3251 ●	0.330	0.310	0.300
20	413-8405 ●	0.470	0.450	0.420
22	996-3260 ●	0.380	0.360	0.340
24	413-8417 ●	0.470	0.440	0.430
Strain Relief - For Free Receptacles				
6	307-5710 ●	1.730	1.440	1.080
8	307-5722 ●	1.810	1.450	1.190
Panel Mount Plug - Accepts Pin Contacts				
2	151-872 ●	0.320	0.250	0.187
4	151-873 ●	0.390	0.300	0.230
6	151-874 ●	0.470	0.380	0.260
8	151-875 ●	0.530	0.420	0.270
10	151-876 ●	0.590	0.480	0.340
12	151-877 ●	0.630	0.510	0.340
14	996-3278 ●	0.370	0.350	0.340
16	413-8429 ●	0.550	0.510	0.500
18	996-3286 ●	0.870	0.810	0.780
20	413-8430 ●	0.820	0.660	0.590
22	996-3294 ●	1.120	1.040	1.000
24	413-8442 ●	1.090	0.880	0.760

Mini-Fit Jr.™ Double Row PCB Headers

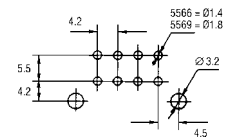
4.20mm Pitch

molex



Right Angle Header

Vertical Header



PCB drilling pattern
(omit mounting holes for straight header)

Mfrs. List No. Straight header=39-28-1xx3, 90° header=39-29-1xx8, where xx=No. of ways

208973

No. of Ways	Order Code	1+	100+	250+
Vertical Headers - Pin Contacts				
2	973-2080 ●	0.46	0.37	0.28
4	973-2098 ●	0.66	0.53	0.47
6	973-2101 ●	0.86	0.69	0.64
8	973-2110 ●	1.11	0.89	0.78
10	973-2136 ●	1.30	1.04	0.97
12	973-2144 ●	1.51	1.21	1.01
14	996-3308 ●	0.85	0.80	0.77
16	973-4244 ●	1.26	1.17	1.13
18	996-3316 ●	1.05	0.99	0.95
20	973-4252 ●	1.17	1.11	1.06
22	996-3324 ●	1.31	1.19	1.15
24	973-4260 ●	1.42	1.33	1.26
Right Angle Headers - With Flanges				
2	101-2166 ●	0.50	0.40	0.33
4	973-2152 ●	0.85	0.68	0.59
6	101-2167 ●	1.19	0.95	0.74
8	973-2160 ●	1.51	1.21	0.91
10	973-2179 ●	1.84	1.47	1.09
12	973-2187 ●	2.13	1.71	1.27
14	996-3332 ●	1.52	1.42	1.36
16	973-4279 ●	2.30	1.88	1.64
18	996-3340 ●	1.93	1.78	1.70
20	973-4287 ●	2.79	2.59	2.07
24	973-4295 ●	2.94	2.74	2.28

Troubleshooting tips



Chat live online to one of our technical engineers at
www.farnell.co.uk



Rectangular Multipole - continued

Mini-Fit Jr.™ Double Row Headers with Mounting Pegs
4.20mm Pitch

molex



- Peg-mounted for increased board retention
- Low profile for space constraints
- Positive housing locks
- Fully isolated terminals to protect contacts from damage
- Mates with : 5557 dual row receptacle

Mfrs. List No. 39301xx0, where xx=No. of ways

414404

No. of Ways	Order Code	1+	Price Each	100+	250+
Right Angle Headers - Pin Contacts					
2	996-3367●	0.70	0.66	0.63	
4	996-3375●	1.16	1.08	1.03	
6	996-3383●	0.94	0.87	0.84	
8	996-3391●	1.79	1.66	1.60	
10	996-3405●	2.10	1.96	1.88	
12	996-3413●	2.40	2.22	2.12	
14	996-3421●	2.70	2.51	2.41	
16	996-3430●	1.67	1.56	1.51	
18	996-3440●	1.84	1.74	1.65	
20	996-3456●	2.51	2.38	2.26	
22	996-3464●	2.24	2.12	2.02	
24	996-3472●	2.46	2.30	2.21	

Crimp Terminals for Mini-Fit Jr.™ Single & Double Row Housings

molex



Brass, Tin plated

Contacts	Wire Size (AWG)	Wire Size (mm ²)	Insulation Diameter (max)	Mfrs. List No.	Order Code
Pin	16	1.29	1.8-3.1	39-00-0082	973-2667
Pin	18-24	0.24-0.82	1.3-3.1	39-00-0041	101-2168
Socket	16	1.29	1.8-3.1	39-00-0078	973-2675
Socket	18-24	0.24-0.82	1.3-3.1	39-00-0039	973-2195

208974

100 Per Pack	AWG	Order Code	1+	5+	10+
Pin	16	973-2667●	15.28	14.05	13.51
Pin	18-24	101-2168●	14.52	13.94	12.80
Socket	16	973-2675●	16.11	14.55	13.69
Socket	18-24	973-2195●	13.80	13.20	12.32

Tooling for Mini-Fit Jr.™

molex



A full cycling parallel action ratchet crimp tool with manual release and a contact retaining bar. Suitable for crimping Mini-Fit Junior terminals, 5556 and 5558 16-28 AWG. Supplied with full instructions.

Mfrs. List No. 69008-0724=269-207, 11-03-0044(HT60630B)=525-080

208975

Order Code	Price Each
160-2636●	188.16
160-2637●	188.16
525-080	21.56

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Mini-Fit RTC™

4.20mm Pitch Vertical Headers

molex



Mini-Fit RTC has the same features as Mini-Fit JR™ plus is RoHS capable. Designed with a high-temperature LCP housing, Mini-Fit RoHS Temperature Capable (RTC) Headers can withstand high SMT solder-reflow temperatures to guarantee compatibility with lead-free RoHS reflow processes.

- High-Temperature LCP housing withstands RoHS lead-free processing up to 260°C peak
- Circuit sizes offer design flexibility
- Mates with standard Mini-Fit™ Receptacles

Mfrs. List No. = 46207-00xx, where xx=No. of ways

510274

No. of Ways	Mfrs. List No.	Order Code	1+	100+	250+
4	46207-0004	156-8142●	1.26	1.17	1.10
6	46207-0006	156-8143●	1.32	1.21	1.14
8	46207-0008	156-8144●	1.40	1.31	1.21
10	46207-0010	156-8145●	1.55	1.45	1.36
12	46207-0012	156-8146●	1.88	1.74	1.63
24	46207-0024	156-8147●	3.53	3.27	3.07

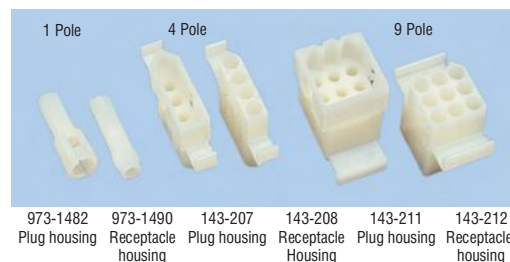
5.03mm Pitch Pin and Socket

2.36mm Pin Diameter

molex

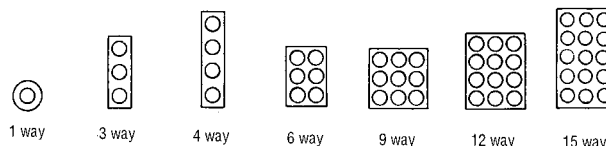
An industry standard connector for applications ranging from domestic appliance to computers. The connectors are moulded from UL94V-2 rated nylon 6.6 material and consists of a plug and receptacle **each of which can be loaded with plug or socket crimp-on terminals**. As an alternative a 1377 female or 1376 male PCB tail terminator can be fitted for direct mounting of the plug or receptacle housing onto a PCB. The receptacle and plug housing have friction locks (except 12 and 15 way) and integrally moulded mounting ears which bend back for panel mounting. The design of the plug and receptacle ensures positive polarisation. UL recognised and CSA certified.

Maximum voltage	250V ac	Pin spacing	5.03mm
Maximum current	See below	Terminals	
Temperature range	-40°C to +105°C	Finish	Tin plate
Maximum voltage drop	3mV	Wire size 1189/1190	0.597-1.68mm ²
Dielectric strength	1500V rms for 60 secs	Wire size 1380/1381	0.336-0.933mm ²
Engage force per circuit	0.034N approx	Max insul. O.D. 1189/1190	4.06mm
Disengage force per circuit	0.027N approx	Max insul. O.D. 1380/1381	3.05mm



973-1482 Plug housing
973-1490 Receptacle housing
143-207 Plug housing
143-208 Receptacle housing
143-211 Plug housing
143-212 Receptacle housing

Housing configurations



Mfrs. Part No.	Mfrs. List No.	Description	Max Cur Per Circuit	Mounting Hole Dim (mm)	Order Code
1619R	(03-09-2011)	1 way plug housing	12A	—	973-1482
1396P	(03-09-2031)	3 way plug housing	12A	23.70 x 9.52	143-205
1396R	(03-09-1031)	3 way receptacle housing	12A	21.34 x 7.92	143-206
1490P	(03-09-2041)	4 way plug housing	9A	28.73 x 9.53	143-207
1490R	(03-09-1041)	4 way receptacle housing	9A	26.37 x 7.92	143-208
1261P	(03-09-2061)	6 way plug housing	9A	19.05 x 17.65	143-209
1261R	(03-09-1061)	6 way receptacle housing	9A	18.24 x 15.24	143-210
1292P	(03-09-2091)	9 way plug housing	9A	23.80 x 17.56	143-211
1292R	(03-09-1091)	9 way receptacle housing	9A	21.03 x 18.42	143-212
1360P1	(03-09-2122)	12 way plug housing	7.5A	29.34 x 19.30	143-213
1360R	(03-09-1121)	12 way receptacle housing	7.5A	26.67 x 16.64	143-214
1375P4	(03-09-2159)	15 way plug housing	7.5A	34.11 x 19.30	143-215
1375R	(03-09-1151)	15 way receptacle housing	7.5A	31.50 x 16.64	143-216

208976

No. of Ways	Housing	Order Code	1+	100+	Price Each	500+	1K+
1	Plug	973-1482●	0.149	0.116	0.078	0.074	0.073
1	Receptacle	973-1490●	0.149	0.116	0.078	0.070	0.063
3	Plug	143-205●	0.260	0.210	0.154	0.132	0.122
3	Plug	143-206●	0.200	0.165	0.154	0.128	0.114
4	Plug	143-207●	0.410	0.320	0.220	0.173	0.155
4	Receptacle	143-208●	0.390	0.310	0.210	0.173	0.147
6	Plug	143-209●	0.530	0.420	0.280	0.250	0.230
6	Receptacle	143-210●	0.530	0.420	0.270	0.240	0.230
9	Plug	143-211●	0.500	0.400	0.320	0.230	0.210

No. of Ways	Housing	Order Code	1+	100+	250+	500+	1K+
9	Receptacle	143-212 ●	0.470	0.380	0.300	0.230	0.210
12	Plug	143-213 ●	0.700	0.550	0.380	0.350	0.340
12	Receptacle	143-214 ●	0.620	0.500	0.380	0.340	0.310
15	Plug	143-215 ●	1.540	1.200	0.770	0.660	0.580
15	Receptacle	143-216 ●	0.890	0.720	0.530	0.460	0.450

Crimp Terminals for 5.03mm Pitch Connectors

molex



	Pin	Socket
Wire Size (AWG)	Wire Size (mm ²)	Insulation Diameter Eng. No.
Pin 22-18	0.33 to 0.93	1.52-3.05 1380TL
Pin 20-14	0.59 to 1.68	1.65-4.06 1190TL
Socket 22-18	0.33 to 0.93	1.52-3.05 1381TL
Socket 20-14	0.59 to 1.68	1.65-4.06 1189TL
Contacts	Brass, tin plated	

208977

Pack Quantity	Order Code	1+	5+	10+
Pins				
100	977-3800 ●	7.44	5.88	4.99
100	977-3827 ●	7.44	5.88	4.99
1000	973-1512 ●	56.35	44.75	37.93
1000	973-1539 ●	56.28	44.72	37.89
Sockets				
100	977-3797 ●	7.44	5.88	4.99
100	977-3819 ●	7.44	5.88	4.99
1000	973-1504 ●	58.00	46.06	39.05
1000	973-1520 ●	55.33	43.95	37.25

PCB Terminals for 5.03mm Pitch Connectors

molex



	Socket	PCB hole dia=1.58	Pin.
Engineering No.	Mfrs. List No.	100 Pack Order Code	1000 Pack Order Code
Pin 1376ATL	02-09-2134 (PACK 100)	977-3843	973-1547
Socket 1377ATL	02-09-2134	973-1555	No Order Code

208978

Pack Quantity	Order Code	1+	5+	10+
Pins				
100	977-3843 ●	22.99	18.30	15.39
1000	973-1555 ●	161.44	126.00	106.05
Sockets				
100	977-3835 ●	22.99	18.30	15.39
1000	973-1547 ●	158.19	123.47	103.93

T0201 Tooling for 5.03mm Pitch Connectors

molex



Mfrs. List No. 69008-0951=285-481, 69008-0950=285-470, 11-03-0006 (HT2038)=143-602

208979

Terminal Size (AWG)	Terminal Eng. No.	Order Code	Price Each 1+
Crimp Tool			
22-18	1380/81	156-0168 ●	178.44
Extraction Tool		143-602	22.11

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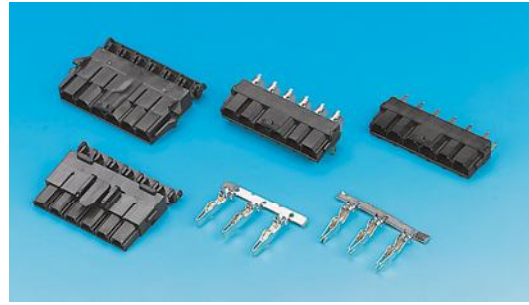
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Mini-Fit Sr.™ WTW, WTB Power Connector System **molex**
10.00mm Pitch

- Max 49A
- 10mm pitch
- Fully polarised
- Low mating force
- Positive audible click lock
- High current
- Wire-to-wire and Wire-to-board
- UL & CSA Approved

Housing	Polyester	Voltage	600V
Headers	Glass-filled, 4/6 nylon	Current	49A max
Contacts	Copper Alloy	Contact resistance	1mΩ max
Plating	Tin/Lead over Nickel	Dielectric voltage	2200V
Temperature	-40 to +105°C	Insulation resistance	1000MΩ min
		Ampere per line	10AWG = 33A 8AWG = 49A
Mfrs. List Nos:	Receptacle housing 42816-xx12	Pnl mount plug housing 42818-xx12	R/A header 42818-xx22
	Vertical header 42819-xx222		
	Where x/xx = No. of Ways		

209290

No. of Ways	Order Code	1+	100+	Price Each 250+	500+	1K+
Receptacle Housing						
2	307-5783 ●	0.630	0.510	0.480	0.450	0.420
3	307-5795 ●	1.630	1.310	0.960	0.800	0.780
4	307-5801 ●	0.960	0.770	0.720	0.680	0.630
5	307-5813 ●	1.010	0.810	0.750	0.720	0.660
6	307-5825 ●	0.970	0.890	0.850	0.810	0.770
Panel Mount Housing						
2	307-5837 ●	0.780	0.630	0.590	0.560	0.520
4	307-5850 ●	0.960	0.770	0.720	0.670	0.620
5	307-5862 ●	0.820	0.780	0.750	0.700	0.690
6	307-5874 ●	1.110	0.890	0.840	0.780	0.720
Vertical Header						
2	112-5167 ●	1.530	1.410	1.350	1.280	1.220
3	112-5168 ●	1.990	1.830	1.740	1.650	1.580
4	112-5169 ●	2.290	2.100	2.020	1.930	1.850
5	112-5170 ●	2.600	2.390	2.290	2.180	2.080
6	112-5171 ●	3.100	2.850	2.720	2.620	2.500
R/A Header						
2	112-5172 ●	2.050	1.900	1.810	1.720	1.640
3	112-5173 ●	2.900	2.670	2.560	2.450	2.330
4	112-5174 ●	3.330	3.070	2.930	2.820	2.690
5	112-5176 ●	3.390	3.130	3.010	2.940	2.880
6	112-5177 ●	3.980	3.710	3.560	3.460	3.370
10 Per Pack		1+	10+	25+	50+	
Pins						
8 AWG	101-2175 ●	2.280	2.070	1.920	1.750	
10 AWG	101-2173 ●	2.850	2.590	2.400	2.190	
Sockets						
8 AWG	101-2176 ●	2.850	2.590	2.400	2.190	
10 AWG	973-3132 ●	2.850	2.590	2.400	2.190	
Tooling				Price Each 1+		
8 AWG Hand Tool	307-5989			471.088		
10 AWG Hand Tool	307-5990			308.000		
Extraction Tool	307-6003			98.143		

VL Connector Series

Plugs, Receptacles and Shrouded PCB Headers

JST
100% Quality Guarantee

- 6.2mm pitch, wire-to-wire and wire-to-board connector system
- Plug housing mates with VL Series Header
- Suitable for high power circuits
- Housing lances for contact retention
- Panel lock construction

Rectangular Multipole - continued

VL Connector Series - continued

Plugs, Receptacles and Shrouded PCB Headers - continued

Current Rating	20A ac/dc	Contact Resistance	7mohm
Voltage Rating	600V ac/dc	Insulation Resistance	1000Mohm
Withstanding Voltage	2000V ac/1min.	PC board Thickness	1.6mm
Wire size	0.52 - 3.3mm ² , (12 - 20AWG)		
Housing	Nylon 66, UL94V-0Natural (White)		
Contacts - Plug/Receptacle	Phosphor BronzeTin		
Contacts - Header	Copper Alloy, Tin plated		
Temperature Range	-25°C to +90°C		

348812

Order Multiple=5		Price Each			
No. of Ways	Mfrs. List No.	Order Code	5+	100+	250+ 500+
Receptacle Housing - Accepts Pin contacts					
2	VLR-02V	735-6307●	0.340	0.320	0.290 0.280
3	VLR-03V	735-6315●	0.390	0.360	0.350 0.330
4	VLR-04V	735-6331●	0.510	0.480	0.450 0.420
Plug Housing - Accepts Socket contacts					
2	VLP-02V	735-6340●	0.320	0.290	0.270 0.260
3	VLP-03V	735-6358●	0.440	0.400	0.380 0.350
4	VLP-04V	735-6366●	0.460	0.420	0.370 0.340
Shrouded PCB Header					
2	B02P-VL	735-6439●	0.930	0.870	0.760 0.660
3	B03P-VL	735-6447●	0.990	0.930	0.830 0.730
4	B04P-VL	735-6455●	1.400	1.310	1.140 1.000
Order Multiple = 10			10+	100+	250+ 500+
Crimp contacts - Pin					
0.5 - 2.0mm ²	BVM-61T-P2.0	735-6374●	0.100	0.094	0.082 0.073
3.5mm ²	BVM-81T-P2.0	735-6390●	0.100	0.094	0.082 0.073
Crimp contacts - Socket					
0.5 - 2.0mm ²	BVF-61T-P2.0	735-6382●	0.097	0.090	0.079 0.070
3.5mm ²	BVF-81T-P2.0	735-6404●	0.097	0.090	0.079 0.070
Order Multiple = 1			1+		
Crimp tools					
0.5 - 2.0mm ²	WC-590	735-6412	233.330		
3.5mm ²	WC-591	735-6420	233.330		

Sabre™ WTW, WTB Power System

7.5mm Pitch



- 2 - 6 circuits wire to wire or wire to board
- Board locks for 0.062" thick PCBs
- Patented new TPA (Terminal Position Assurance) on mated terminals
- Virtually eliminates terminal backout
- Anti-tangle positive latches
- Polarised Housing
- Terminals fully isolated in housings
- For 14 - 18 AWG wire

Voltage	100V mated, 600V unmated	Temperature range	-40°C to 130°C
Current rating	18A	Housing	Nylon UL94V-0
Dielectric voltage	6000V	Contacts	Brass, Plating
Insulation resistance	1000Mohm		
Mfrs. List No.	Description	Order Code	
43178-2002	female terminal - insulation diameter 3.3mm	101-2197	
43375-0001	female terminal - insulation diameter 3.3mm	973-4090	
43375-1001	female terminal - insulation diameter 4.57mm	973-4104	
43680-2002	2 way plug	329-2939	
43680-2004	4 way plug	329-2952	
44441-2002	2 way receptacle	329-2988	
44441-2003	3 way receptacle	329-2990	
44441-2004	4 way receptacle	329-3002	
44441-2005	5 way receptacle	329-3014	
44441-2006	6 way receptacle	329-3026	
43160-3102	2 way header SMC r/a with board lock	329-3038	
43160-3103	3 way header SMC r/a with board lock	329-3040	
43160-3104	4 way header SMC r/a with board lock	329-3051	
43160-3106	6 way header SMC r/a with board lock	329-3075	
43160-2102	2 way header SMC vertical with board lock	973-4112	
43160-2103	4 way header SMC vertical with board lock	101-2199	
43160-2104	4 way header SMC vertical with board lock	973-4120	
43160-2105	6 way header SMC vertical with board lock	101-2200	
43160-2106	female crimp hand tool 2.36-3.56mm dia	101-2201	
638117200	female crimp hand tool 2.36-3.56mm dia	142-2487	
63813-0500	female extraction tool	329-3166	
63813-0800	male extraction tool	329-3180	

Order Multiple 2		Price Each			
No. of Ways	Mfrs. List No.	Order Code	2+	10+	50+ 100+
Plug					
2	43680-2002	329-2939●	0.590	0.480	0.430 0.390
4	43680-2004	329-2952●	0.470	0.440	0.420 0.400
Receptacle					
2	44441-2002	329-2988●	0.590	0.480	0.430 0.400
3	44441-2003	329-2990●	0.660	0.530	0.460 0.430
4	44441-2004	329-3002●	0.680	0.560	0.480 0.460
5	44441-2005	329-3014●	0.760	0.600	0.530 0.500
6	44441-2006	329-3026●	0.920	0.700	0.590 0.560

Order Multiple 2			Price Each			
R/angled Hdr						
2	43160-3102	329-3038●	1.220	0.950	0.810	0.770
3	43160-3103	329-3040●	1.460	1.160	1.000	0.940
4	43160-3104	329-3051●	1.500	1.210	1.090	1.030
6	43160-3106	329-3075●	2.040	1.610	1.390	1.300
Vertical Hdr						
2	43160-2102	973-4112●	1.220	0.950	0.810	0.790
3	43160-2103	101-2199●	1.460	1.160	1.000	0.910
4	43160-2104	973-4120●	1.570	1.240	1.110	1.050
5	43160-2105	101-2200●	1.670	1.330	1.080	1.010
6	43160-2106	101-2201●	1.930	1.550	1.320	1.240
Terminals						
Order Multiple=20			20+	100+	260+	500+
Female 3.3mm	43178-2002	101-2197●	0.104	0.092	0.078	0.064
Female 3.3mm	43375-0001	973-4090●	0.104	0.092	0.078	0.064
Female 4.57mm	43375-1001	973-4104●	0.104	0.094	0.078	0.064

209523

Mfrs. List No.	Description	Order Code	Price Each
638117200	Female crimp hand tool 2.36-3.56mm ins dia	142-2487	273.89
63811-7300	3.05-4.57mm ins dia	145-3583	228.89
63813-0500	Insertion tool	329-3166	36.19
63813-0800	Extraction tool	329-3180	79.84

Micro MATE-N-LOK

3mm (.118") Centerline Spacing



- Wire-to-wire and wire-to-board pin and receptacle connector system
- 2-12 contact positions - single row
- 2-24 contact positions - double row
- Panel mount or free hanging wire-to-wire configurations
- Dual beam contact design for reliable interconnection
- Contacts accept 24-20 AWG (0.2-0.6MM²) and 30-26 AWG (0.05-0.15MM²) wire with insulation diameter of .060" (1.52mm) maximum
- Approvals: **UL** recognised & **CSA** approved

Current	5A Max	Centreline	3mm
Rated voltage	250V	Mating Force	6.67N
Temperature Range	-40°C to +105°C	Extraction force	0.5N per contact
Housing Material	Nylon, UL94V-2	Contact wire range	30 - 20 AWG
Colour	Black		

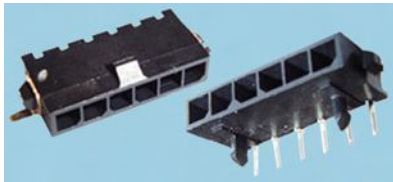
Plug and Receptacle Housing

422851

Order Multiple=10		Price Each			
No. of Ways	Mfrs. List No.	Order Code	10+	100+	250+ 500+
Receptacle Housing Single Row - Accepts socket contacts					
2	1445022-2	111-1081●	0.210	0.200	0.196 0.181
3	1445022-3	111-1082●	0.210	0.180	0.171 0.163
4	1445022-4	111-1083●	0.310	0.290	0.280 0.270
5	1445022-5	111-1084●	0.360	0.330	0.320 0.300
6	1445022-6	111-1086●	0.380	0.370	0.360 0.330
Receptacle Housing Dual Row - Accepts socket contacts					
2	794617-2	111-1087●	0.360	0.350	0.340 0.320
4	0-794617-4	111-1088●	0.370	0.360	0.350 0.340
6	0-794617-6	111-1089●	0.390	0.370	0.360 0.350
8	794617-8	111-1090●	0.420	0.400	0.390 0.370
10	1-794617-0	111-1091●	0.460	0.440	0.430 0.420
12	1-794617-2	111-1092●	0.480	0.470	0.460 0.440
16	1-794617-6	111-1093●	0.500	0.490	0.480 0.460
20	2-794617-0	111-1094●	0.550	0.530	0.520 0.500
24	2-794617-4	111-1095●	0.570	0.550	0.530 0.520
Free Plug Housing Single Row - Accepts pin contacts					
2	1445049-2	111-1096●	0.250	0.240	0.220 0.200
3	0-1445049-3	111-1098●	0.260	0.196	0.188 0.171
4	1445049-4	111-1099●	0.360	0.350	0.330 0.320
6	1445049-6	111-1101●	0.310	0.300	0.290 0.280
Panel Mount Plug Housing Single Row - Accepts pin contacts					
5	1445048-5	111-1106●	0.410	0.400	0.390 0.350
Free Plug Housing Dual Row - Accepts pin contacts					
2	794616-2	124-8308●	0.260	0.230	0.220 0.210
4	794616-4	124-8309●	0.300	0.280	0.270 0.260
6	794616-6	124-8310●	0.310	0.290	0.280 0.270
8	794616-8	124-8311●	0.460	0.440	0.410 0.380
Panel Mount Plug Housing Dual Row - Accepts pin contacts					
2	794615-2	111-1108●	0.300	0.260	0.250 0.240
4	794615-4	111-1109●	0.360	0.330	0.320 0.300
6	794615-6	111-1110●	0.460	0.450	0.430 0.400
8	794615-8	111-1111●	0.360	0.340	0.330 0.310
10	1-794615-0	111-1112●	0.560	0.530	0.520 0.500
12	1-794615-2	111-1113●	0.600	0.580	0.550 0.530
16	1-794615-6	111-1114●	0.610	0.580	0.550 0.520
Order Multiple = 100			100+	1K+	2K5+ 5K+
Pin Contacts					
20-24AWG					
Pin Contact	1-794612-0	111-1149●	0.082	0.078	0.072 0.068
26-30AWG					
Pin Contact	1-794613-0	111-1150●	0.082	0.078	0.072 0.068

Order Multiple=10			Price Each			
No. of Ways	Mftrs. List No.	Order Code	10 +	100+	250+	500+
Socket Contacts						
20-24AWG						
Socket Contact	794610-1	111-1151●	0.081	0.077	0.074	0.067
26-30AWG						
Socket Contact	794611-1	111-1153●	0.075	0.072	0.069	0.062
Tooling						
Crimp tool for						
20-24AWG	91501-1	111-1475	331.500			
Crimp tool for						
26-30AWG	91502-1	111-1476	291.720			
Extraction						
Tool, Pin	1586344-1	111-1473	17.380			
Extraction						
Tool, Socket	843996-6	111-1477	21.840			

Micro MATE-N-LOK Single Row 90° Headers



422859

Order Multiple=10			Price Each				
No. of Ways	List No.	Order Code	10+	100+	250+	500+	1K+
Through Hole - With plastic board locks							
2	2-1445055-2	111-1118●	0.73	0.69	0.64	0.61	0.57
3	2-1445055-3	111-1119●	0.65	0.61	0.59	0.56	0.53
4	2-1445055-4	111-1120●	1.15	1.07	1.02	0.99	0.94
5	2-1445055-5	111-1121●	1.17	1.08	1.05	1.00	0.97
6	2-1445055-6	111-1122●	1.30	1.21	1.15	1.11	1.07
SMT - with SMT hold down							
2	2-1445057-2	111-1123●	0.86	0.79	0.75	0.71	0.67
3	2-1445057-3	111-1124●	1.00	0.93	0.90	0.86	0.82
4	2-1445057-4	111-1125●	1.51	1.50	1.48	1.42	1.37
5	2-1445057-5	111-1126●	1.35	1.24	1.18	1.14	1.10
6	2-1445057-6	111-1128●	1.55	1.44	1.39	1.31	1.26

Micro MATE-N-LOK Dual Row 90° & Vertical Headers



1111134



1111145

422860

Order Multiple = 10			Price Each				
No. of Ways	List No.	Order Code	10+	100+	250+	500+	1K+
Vertical Through Hole - With Solder tail retention							
2	3-794630-2	111-1129●	0.60	0.58	0.55	0.53	0.48
4	3-794630-4	111-1130●	0.64	0.62	0.59	0.57	0.55
6	3-794630-6	111-1131●	0.88	0.82	0.77	0.73	0.69
8	3-794630-8	111-1132●	1.03	0.97	0.92	0.88	0.84
10	4-794630-0	111-1133●	1.18	1.16	1.13	1.11	1.07
12	4-794630-2	111-1134●	1.23	1.15	1.10	1.06	1.02
16	4-794630-6	111-1135●	1.72	1.70	1.66	1.64	1.60
20	5-794630-0	111-1136●	1.71	1.60	1.54	1.48	1.42
24	5-794630-4	111-1137●	1.87	1.74	1.67	1.60	1.53
90° Through Hole - With board locks							
2	3-794618-2	111-1138●	0.65	0.61	0.58	0.56	0.54
4	3-794618-4	111-1141●	0.79	0.73	0.70	0.67	0.64
6	3-794618-6	111-1142●	0.71	0.65	0.63	0.60	0.58
8	3-794618-8	111-1143●	0.89	0.83	0.80	0.75	0.70
10	4-794618-0	111-1144●	0.94	0.89	0.84	0.80	0.77
12	4-794618-2	111-1145●	1.08	1.01	0.98	0.93	0.88
16	4-794618-6	111-1146●	1.13	1.06	1.02	0.98	0.95
24	5-794618-4	111-1148●	1.70	1.58	1.53	1.46	1.41

Low Profile Micro MATE-N-LOK Connectors



- Less than 4.7 mm in vertical height required
- Right angle surface mount headers with surface mount hold-downs
- Positive latching to prevent unmating
- 2, 3, and 4 positions available
- Black and natural colors available
- Utilizes standard Micro MATE-N-LOK contacts with 24-20 and 30-26 AWG wire ranges

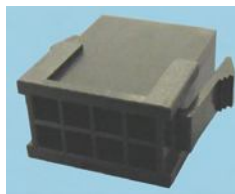


Description	Housing Material	Contact Material	Contact Plating	Current	Voltage		
Receptacle Housing Header, R/A	Nylon High Temp. Nylon	Phosphor Bronze Brass	Tin over Nickel	5A 5A	250VAC 250VAC		
521717							
				Price Each			
Mfrs. Part No.	No. of Ways	Order Code	1+	25+	50+	50+	500+
Housings - Black							
2029047-2	2	163-8746●	0.250	0.210	0.198	0.176	0.156
2029047-3	3	163-8747●	0.280	0.260	0.220	0.200	0.176
2029047-4	4	163-8748●	0.320	0.300	0.280	0.260	0.200
Housings - Natural							
2029102-2	2	163-8751●	0.280	0.260	0.220	0.200	0.176
2029102-3	3	163-8752●	0.320	0.300	0.280	0.260	0.200
2029102-4	4	163-9367●	0.320	0.300	0.280	0.260	0.200
Headers - Black							
2029030-2	2	163-8753●	0.750	0.700	0.660	0.620	0.500
2029030-3	3	163-9368●	0.890	0.830	0.780	0.730	0.590
2029030-4	4	163-8754●	1.430	1.350	1.270	1.180	0.960
Headers - Natural							
2029104-2	2	163-8755●	0.750	0.700	0.660	0.620	0.500
2029104-3	3	163-8756●	0.890	0.830	0.780	0.730	0.590
2029104-4	4	163-8757●	1.430	1.350	1.270	1.180	0.960

3.0mm Plug & Receptacle Housings



5560 / 5561 series



- 3.0mm grid spacing
- Dual Row
- Flammability rating - UL 94V-0



Housing Material	Contact Material	Contact Plating	Current Rating	Voltage Rating	Operating Temperature
Nylon 6,6	Phosphor Bronze	Tin Plating	5A	250V	-25 bis 105°C

522715

Mftrs. List No.	No. of Ways	Order Code	10+	100+	250+	500+	1K+
Free Hanging Receptacles							
2260(5560)-02	2	157-8562●	0.210	0.172	0.137	0.114	0.092
2260(5560)-04	4	157-8563●	0.250	0.210	0.172	0.137	0.114
2260(5560)-06	6	157-8564●	0.290	0.240	0.194	0.160	0.126
2260(5560)-08	8	157-8565●	0.270	0.220	0.183	0.137	0.114
2260(5560)-10	10	157-8566●	0.390	0.330	0.270	0.210	0.172
2260(5560)-12	12	157-8567●	0.430	0.360	0.300	0.220	0.183
2260(5560)-14	14	157-8568●	0.460	0.380	0.310	0.250	0.194
2260(5560)-16	16	157-8569●	0.510	0.430	0.350	0.280	0.220
2260(5560)-18	18	157-8570●	0.550	0.460	0.380	0.300	0.240
2260(5560)-20	20	157-8572●	0.570	0.480	0.390	0.310	0.250
Panel Mount Plugs							
2261(5561)-02	2	157-8573●	0.310	0.270	0.220	0.172	0.137
2261(5561)-04	4	157-8574●	0.360	0.300	0.240	0.194	0.160
2261(5561)-06	6	157-8575●	0.450	0.380	0.310	0.240	0.194
2261(5561)-08	8	157-8576●	0.520	0.440	0.360	0.280	0.220
2261(5561)-10	10	157-8577●	0.570	0.480	0.390	0.310	0.250
2261(5561)-12	12	157-8578●	0.620	0.520	0.430	0.340	0.280
2261(5561)-14	14	157-8579●	0.660	0.550	0.460	0.360	0.290
2261(5561)-16	16	157-8580●	0.710	0.600	0.480	0.380	0.310
2261(5561)-18	18	157-8581●	0.790	0.650	0.540	0.430	0.350
2261(5561)-20	20	157-8582●	0.820	0.680	0.560	0.450	0.360
Crimp Pin							
2261(5561)T	20 - 24 AWG	157-8642●	0.046	0.037	0.016	0.012	0.010
Crimp Socket							
2260(5560)T	20 - 24 AWG	157-8643●	0.046	0.037	0.016	0.012	0.010

3.0mm Vertical & Right Angle Headers



5561S / 5561R series



- Orientation - Vertical and Right Angle Headers available
- 3.0mm grid spacing
- Dual Row
- Flammability rating - UL 94V-2
- 5561S & 5561R mate with Receptacle Housings 5560



Housing Material	Contact Material	Contact Plating	Current Rating	Voltage Rating	Operating Temperature
Nylon 4,6	Copper Alloy	Tin Plated	5A	250V	-25 bis 105°C

522737

Mftrs. List No.	No. of Ways	Order Code	10+	100+	250+	500+	1K+
Vertical Headers							
2261(5561)S-02	2	157-8584●	0.220	0.183	0.149	0.114	0.092
2261(5561)S-04	4	157-8585●	0.220	0.194	0.160	0.126	0.103
2261(5561)S-06	6	157-8586●	0.240	0.210	0.160	0.126	0.103
2261(5561)S-08	8	157-8587●	0.290	0.240	0.194	0.160	0.126
2261(5561)S-10	10	157-8588●	0.310	0.270	0.220	0.172	0.137
2261(5561)S-12	12	157-8589●	0.350	0.290	0.240	0.183	0.149
2261(5561)S-14	14	157-8590●	0.390	0.330	0.270	0.210	0.172
2261(5561)S-16	16	157-8591●	0.450	0.370	0.310	0.240	0.194
2261(5561)S-18	18	157-8592●	0.480	0.400	0.330	0.250	0.210



Rectangular Multipole - continued

3.0mm Vertical & Right Angle Headers - continued

5561S / 5561R series - continued

Mfrs. List No.	No. of Ways	Order Code	10+	100+	250+	500+	1K+
2261(5561)S-20	20	157-8593●	0.510	0.430	0.350	0.280	0.220
Right Angle Headers							
2261(5561)R-02	2	157-8594●	0.220	0.183	0.160	0.126	0.103
2261(5561)R-04	4	157-8596●	0.270	0.220	0.183	0.137	0.114
2261(5561)R-06	6	157-8597●	0.280	0.220	0.194	0.149	0.126
2261(5561)R-08	8	157-8598●	0.310	0.270	0.220	0.172	0.137
2261(5561)R-10	10	157-8599●	0.350	0.290	0.240	0.183	0.149
2261(5561)R-12	12	157-8600●	0.380	0.330	0.270	0.210	0.160
2261(5561)R-14	14	157-8602●	0.440	0.370	0.300	0.240	0.194
2261(5561)R-16	16	157-8603●	0.480	0.400	0.330	0.250	0.210
2261(5561)R-18	18	157-8604●	0.520	0.440	0.360	0.280	0.220
2261(5561)R-20	20	157-8605●	0.550	0.460	0.380	0.300	0.240

3.0mm Vertical & Right Angle SMT Headers

5561S-SM1 / 5561R-SM1 series



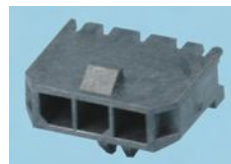
- Orientation - Vertical and Right Angle Headers available
- Mounting Type - SMT
- 3.0mm grid spacing
- Headers come with metal tabs
- Dual Row
- Flammability rating - UL 94V-2
- 5561S-SM1 & 5561R-SM1 mate with Receptacle Housings 5560

Housing Material	Contact Material	Contact Plating	Current Rating	Voltage Rating	Operating Temperature
High Temp. Plastic	Copper Alloy	Tin Plated	5A	250V	-25 bis 105°C



3.0mm Vertical & Right Angle Headers

5561SA / 5561RA series



- Orientation - Vertical and Right Angle Headers available
- 3.0mm grid spacing
- Single Row
- Flammability rating - UL 94V-2
- 5561SA & 5561RA mate with Receptacle Housings 5560A

Housing Material	Contact Material
Nylon 4,6	Copper Alloy

Contact Plating
Tin Plated

Current Rating
5A

Voltage Rating
250V

Operating Temperature
-25 bis 105°C

523155



Mfrs. List No.	No. of Ways	Order Code	10+	100+	250+	500+	1K+
Vertical Headers							
2261(5561)SA-02	2	157-8635●	0.126	0.103	0.080	0.068	0.057
2261(5561)SA-03	3	157-8636●	0.160	0.137	0.114	0.092	0.068
2261(5561)SA-04	4	157-8638●	0.172	0.149	0.126	0.092	0.080
Right Angle Headers							
2261(5561)RA-02	2	157-8639●	0.160	0.137	0.114	0.092	0.068
2261(5561)RA-03	3	157-8640●	0.210	0.172	0.149	0.114	0.092
2261(5561)RA-04	4	157-8641●	0.280	0.220	0.194	0.149	0.126

4.2mm VAL-U-LOK Series



- 4.2mm pitch wire-to-wire and wire-to-board lead free connectors
- Easily mated and unmated
- 2-24 pole variants available
- Internateable with AMP DUAC series of connectors
- Typical applications: PC motherboards, power supplies; heating systems etc.
- Approvals- CSA and UL recognised

Specification:

Poles:

2-24

Pitch:

4.2mm

Materials:

Housing: Nylon, White

Contacts: , plated

Flammability rating:

UL94V-2

Insulation resistance: 1000MΩ min.

Dielectric withstand

voltage:

1500V ac

Rated voltage:

600V ac

Rated current:

9A max. in 2-pos. applications

Durability:

50 Mating cycles

Operating

temperature range:

-25°C to +105°C

372163

4.2mm VAL-U-LOK Series

PCB Pin Headers



- Straight and right angle variants available
- Right angle versions available with/without mounting screw flange
- With "Pos. 1" marking

372167

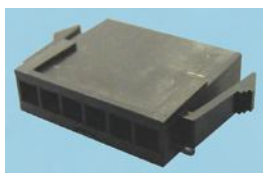
No. of Ways	Mfrs. List No.	Order Code	1+	25+	50+	250+
Straight						
2	1586037-2	811-5931●	0.28	0.27	0.26	0.24
6	1586037-6	811-5958●	0.39	0.36	0.35	0.34
8	1586037-8	811-5966●	0.42	0.40	0.36	0.34
10	1-1586037-0	811-5729●	0.45	0.42	0.41	0.40
12	1-1586037-2	811-5737●	0.57	0.52	0.50	0.48
20	2-1586037-0	811-6121●	0.73	0.67	0.65	0.63
24	2-1586037-4	811-6130●	0.86	0.73	0.67	0.60
Right Angle						
2	1586041-2	811-5974●	0.41	0.34	0.31	0.29
8	1586041-8	811-6008●	0.54	0.48	0.43	0.39
12	1-1586041-2	811-5761●	1.02	0.93	0.83	0.75
16	1-1586041-6	811-5770●	1.09	1.00	0.90	0.82
20	2-1586041-0	811-6148●	1.22	1.08	0.99	0.91
Right Angle- Mounting Flange						
8	1586043-8	811-6040●	0.72	0.68	0.64	0.62
20	2-1586043-0	811-6164●	0.94	0.87	0.84	0.80

3.0mm Plug & Receptacle Housings

5560A / 5561A series



Receptacle Housing



Plug Housing

- 3.0mm grid spacing
- Single Row
- Housings have mounting ears
- Flammability rating - UL 94V-0

Housing Material	Contact Material	Contact Plating	Current Rating	Voltage Rating	Operating Temperature
Nylon 6,6	Copper Alloy	Tin Plated	5A	250V	-25 bis 105°C



523153

Mfrs. List No.	No. of Ways	Order Code	10+	100+	250+	500+	1K+
Free Hanging Receptacles							
2260(5560)A-02	2	157-8629●	0.220	0.183	0.149	0.126	0.103
2260(5560)A-03	3	157-8630●	0.270	0.220	0.183	0.137	0.114
2260(5560)A-04	4	157-8631●	0.300	0.250	0.210	0.160	0.126
Panel Mount Plugs							
2261(5561)A-02	2	157-8632●	0.270	0.220	0.183	0.137	0.114
2261(5561)A-03	3	157-8633●	0.280	0.220	0.194	0.149	0.126
2261(5561)A-04	4	157-8634●	0.300	0.250	0.210	0.160	0.126
Crimp Pin							
2261(5561)T	20 - 24 AWG	157-8642●	0.046	0.037	0.016	0.012	0.010
Crimp Socket							
2260(5560)T	20 - 24 AWG	157-8643●	0.046	0.037	0.016	0.012	0.010

4.2mm VAL-U-LOK Series

Plug and Receptacle Housings



Free-hanging plug housing



Panel mount plug

- Plug and receptacle housings
- Free-hanging or panel mount variants available

Single Row

No. of Ways	Mfrs. List No.	Order Code	5+	25+	50+	250+
Panel Mount Plug						
3	1586101-3	124-8319 ●	0.124	0.116	0.111	0.107
4	1586022-4	124-8312 ●	0.180	0.169	0.162	0.155
5	1586022-5	124-8313 ●	0.137	0.128	0.121	0.118
Free-Hanging Plug						
3	1586103-3	124-8320 ●	0.172	0.160	0.153	0.148
4	1586024-4	124-8314 ●	0.172	0.160	0.153	0.148
5	1586024-5	124-8316 ●	0.137	0.128	0.121	0.118
Receptacle Housing						
3	1586102-3	130-7687 ●	0.119	0.112	0.107	0.103
4	1586026-4	124-8317 ●	0.172	0.160	0.153	0.148
5	1586026-5	124-8318 ●	0.137	0.128	0.121	0.118

Double Row

372164

No. of Ways	Mfrs. List No.	Order Code	1+	25+	50+	250+
Panel Mount Plug						
10	1-794953-0	811-5818 ●	0.230	0.220	0.210	0.200
12	1-794953-2	811-5826 ●	0.188	0.180	0.171	0.164
16	1-794953-6	811-5834 ●	0.210	0.196	0.188	0.164
20	2-794953-0	811-6180 ●	0.300	0.270	0.260	0.250
24	2-794953-4	811-6199 ●	0.450	0.420	0.400	0.340
Free-Hanging Plug						
2	1586000-2	811-5893 ●	0.140	0.120	0.109	0.100
4	1586000-4	811-5907 ●	0.174	0.154	0.143	0.132
6	1586000-6	811-5915 ●	0.184	0.161	0.150	0.139
8	1586000-8	811-5923 ●	0.157	0.149	0.132	0.115
10	1-1586000-0	811-5699 ●	0.180	0.164	0.149	0.141
12	1-1586000-2	811-5702 ●	0.158	0.141	0.129	0.116
16	1-1586000-6	811-5710 ●	0.220	0.200	0.180	0.163
20	2-1586000-0	811-6105 ●	0.270	0.240	0.220	0.200
24	2-1586000-4	811-6113 ●	0.400	0.350	0.330	0.280
Receptacle Housing						
2	794954-2	811-6261 ●	0.159	0.147	0.134	0.125
4	794954-4	811-6270 ●	0.139	0.129	0.123	0.118
8	794954-8	811-6296 ●	0.178	0.160	0.150	0.141
10	1-794954-0	811-5842 ●	0.260	0.220	0.210	0.200
16	1-794954-6	811-5869 ●	0.300	0.270	0.260	0.210
20	2-794954-0	811-6202 ●	0.370	0.350	0.320	0.300
24	2-794954-4	811-6210 ●	0.470	0.440	0.430	0.420

4.2mm VAL-U-LOK Series

Crimping Contacts and Tools



- Male and female contacts for 4,2 mm PE Series
- Locators can be used to crimp male or female contacts

372169

AWG	Cross section (mm ²)	Mfrs. List No.	Order Code	10+	100+	500+	1K+
Male Contacts							
26-22	0.1-0.3	1586316-1	811-6075 ●	0.026	0.022	0.020	0.017
22-18	0.3-0.8	1586314-1	811-6059 ●	0.051	0.046	0.039	0.034
Female Contacts							
26-22	0.1-0.3	1586317-1	811-6083 ●	0.051	0.046	0.039	0.034
22-18	0.3-0.8	1586315-1	811-6067 ●	0.051	0.046	0.039	0.034
Crimp Tools							
				1+			
Crimp tool- without locator		354940-1	360-170	61.050			
Locator- AWG26-22		91387-2	811-6300	378.820			
Locator- AWG22-18		91388-2	811-6318	215.900			
Extraction tool		1586343-1	811-6091	16.220			

Mini Universal Mate-N-Lok.



- Housing may be used to accommodate either pin or socket contacts
- Fully polarised
- Double-wire crimping possible
- Compact housing
- Approvals: CSA, & VDE. UL Recognised

Current	5A Max
Rated voltage	300V
Temperature Range	-20°C to +105°C
Housing Material	Nylon
Colour	UL94V-2: Natural UL94V-0: White

Contact Material	Brass, with Tin finish
Centreline	4.2mm
Contact insertion force	4N per contact
Extraction force	0.5N per contact
Wire range	26 - 18 AWG

209247

Order Multiple=5	Mfrs. List No.	Order Code	5+	10+	100+	250+
Plug Housing, UL94V-2 - Accepts pin or socket contacts						
2	1 Free 172336-1	133-620 ●	0.163	0.157	0.147	0.135
3	1 Free 172337-1	133-632 ●	0.210	0.200	0.195	0.171
4	2 Free 172338-1	133-644 ●	0.280	0.270	0.250	0.210
6	2 Free 172339-1	133-656 ●	0.370	0.350	0.320	0.310
9	Matrix Free 172340-1	133-668 ●	0.410	0.390	0.350	0.340
12	Matrix Free 172341-1	133-670 ●	0.500	0.480	0.460	0.410
15	Matrix Free 172342-1	133-681 ●	0.440	0.420	0.400	0.350
Plug Housing, UL94V-0 - Accepts pin or socket contacts						
1	1 Free 172164-1	124-8280 ●	0.153	0.141	0.136	0.131
2	1 Free 172165-1	124-8281 ●	0.128	0.110	0.100	0.090
3	1 Free 172166-1	124-8282 ●	0.160	0.140	0.130	0.122
4	2 Free 172167-1	124-8283 ●	0.220	0.180	0.160	0.150
6	2 Free 172168-1	124-8284 ●	0.370	0.290	0.280	0.270
8	2 Free 770579-1	124-8305 ●	0.600	0.550	0.530	0.520
9	Matrix Free 172169-1	124-8286 ●	0.410	0.330	0.320	0.310
12	2 Free 770581-1	124-8306 ●	0.600	0.560	0.540	0.520
12	Matrix Free 172170-1	124-8287 ●	0.500	0.400	0.380	0.360
15	Matrix Free 172171-1	124-8288 ●	0.480	0.380	0.360	0.340
20	2 Free 770585-1	124-8307 ●	0.960	0.870	0.830	0.810
Receptacle Housing, UL94V-2 - Accepts pin or socket contacts						
2	1 Panel 172328-1	133-693 ●	0.220	0.210	0.200	0.182
2	1 Free 172343-1	124-8281 ●	0.310	0.290	0.270	0.260
3	1 Panel 172329-1	133-700 ●	0.250	0.240	0.230	0.200
4	2 Panel 172330-1	133-711 ●	0.250	0.220	0.210	0.195
6	2 Panel 172331-1	133-723 ●	0.250	0.240	0.210	0.199
9	Matrix Panel 172332-1	133-735 ●	0.350	0.340	0.310	0.290
12	Matrix Panel 172333-1	133-747 ●	0.410	0.390	0.370	0.340
15	Matrix Panel 172334-1	133-759 ●	0.370	0.360	0.340	0.300
Receptacle Housing, UL94V-0 - Accepts pin or socket contacts						
1	1 Free 172156-1	124-8271 ●	0.169	0.158	0.152	0.145
2	1 Panel 172157-1	124-8272 ●	0.160	0.140	0.130	0.120
2	1 Free 172233-1	124-8289 ●	0.169	0.159	0.153	0.146
3	1 Panel 172158-1	124-8274 ●	0.210	0.170	0.160	0.150
3	1 Free 172234-1	124-8290 ●	0.220	0.200	0.194	0.186
4	2 Panel 172159-1	124-8275 ●	0.230	0.190	0.180	0.170
6	2 Panel 172160-1	124-8276 ●	0.320	0.250	0.200	0.190
9	Matrix Panel 172161-1	124-8277 ●	0.410	0.320	0.310	0.300
12	Matrix Panel 172162-1	124-8278 ●	0.450	0.340	0.330	0.320
15	Matrix Panel 172163-1	124-8279 ●	0.590	0.450	0.440	0.430

Order Multiple=20		Price Each				
Pin Contacts		Order Code	20 +	100 +	500 +	1K +
26-22AWG Pin Contact	170363-1	133-760●	0.103	0.091	0.080	0.067
22-18AWG Pin Contact	170364-1	133-772●	0.073	0.069	0.063	0.059
Socket Contacts						
26-22AWG Socket Contact	170365-1	133-784●	0.103	0.091	0.080	0.067
22-18AWG Socket Contact	170366-1	133-796●	0.103	0.091	0.080	0.067
Tooling						
Tool for 22-26AWG		91529-1	433-9873	1+		
Extraction tool		189727-1	165-1092	26.720		
Insertion Tool		455830-1	962-9645	13.400		

4.2mm Plug & Receptacle Housings

5557 / 5559 series



- 4.2mm grid spacing
- Dual Row
- Colour - white
- Flammability rating - UL 94V-2



Housing Material	Contact Material	Contact Plating	Current Rating	Voltage Rating	Operating Temperature
High Temp. Plastic	Phosphor Bronze	Tin Plated	9A	600V	-40 to 105°C

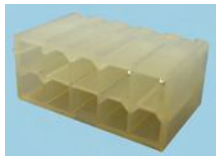
523230

Mfrs. List No.	No. of Ways	Order Code	5+	100+	Price Each	250+	500+	1K+
Free Hanging Receptacles								
2257(5557)-02	2	157-8468●	0.068	0.045	0.036	0.033	0.030	
2257(5557)-04	4	157-8469●	0.080	0.054	0.043	0.038	0.036	
2257(5557)-06	6	157-8470●	0.103	0.071	0.057	0.050	0.048	
2257(5557)-08	8	157-8471●	0.114	0.082	0.066	0.059	0.055	
2257(5557)-10	10	157-8472●	0.126	0.089	0.071	0.063	0.059	
2257(5557)-12	12	157-8473●	0.149	0.112	0.090	0.080	0.074	
2257(5557)-14	14	157-8474●	0.194	0.141	0.113	0.101	0.095	
2257(5557)-16	16	157-8475●	0.210	0.154	0.122	0.110	0.102	
2257(5557)-18	18	157-8476●	0.220	0.168	0.134	0.120	0.112	
2257(5557)-20	20	157-8477●	0.210	0.148	0.118	0.105	0.099	
Panel Mount Plugs								
2259(5559)-02	2	157-8478●	0.160	0.118	0.095	0.084	0.079	
2259(5559)-04	4	157-8481●	0.183	0.132	0.107	0.095	0.089	
2259(5559)-06	6	157-8482●	0.210	0.148	0.118	0.105	0.099	
2259(5559)-08	8	157-8483●	0.220	0.163	0.129	0.116	0.109	
2259(5559)-10	10	157-8484●	0.240	0.176	0.141	0.126	0.118	
2259(5559)-12	12	157-8485●	0.270	0.191	0.154	0.137	0.128	
2259(5559)-14	14	157-8486●	0.280	0.210	0.165	0.148	0.137	
2259(5559)-16	16	157-8487●	0.300	0.220	0.176	0.158	0.148	
2259(5559)-18	18	157-8488●	0.330	0.240	0.188	0.168	0.157	
2259(5559)-20	20	157-8489●	0.340	0.250	0.197	0.176	0.165	
Crimp Pin				100+	1K+	+	+	
2259(5559)T-2426-BS	16 - 26 AWG	157-8526●	0.046	0.033	0.022	--	--	
Crimp Socket								
2257(5557)T-2426-BS	16 - 26 AWG	157-8527●	0.035	0.027	0.018	--	--	

Rectangular Multipole - continued

4.2mm Vertical & Right Angle Headers

5566S / 5569R series



Vertical



Right Angle



- Orientation - Vertical and Right Angle Headers available
- 4.2mm grid spacing
- Dual Row
- Colour - white
- Flammability rating - UL 94V-2
- 5566S & 5569R mate with Receptacle Housings 5557

Housing Material	Contact Material	Contact Plating	Current Rating	Voltage Rating	Operating Temperature
Nylon 6,6	Copper Alloy	Tin Plated	9A	600V	-40 bis 105°C

52327

Mfrs. List No.	No. of Ways	Order Code	5+	100+	250+	500+	1K+
Vertical Headers							
2266(5566)S-02	2	157-8490●	0.220	0.168	0.134	0.120	0.112
2266(5566)S-04	4	157-8491●	0.240	0.176	0.141	0.126	0.118
2266(5566)S-06	6	157-8493●	0.300	0.220	0.174	0.156	0.146
2266(5566)S-08	8	157-8494●	0.290	0.210	0.167	0.150	0.139
2266(5566)S-10	10	157-8495●	0.450	0.350	0.280	0.240	0.220
2266(5566)S-12	12	157-8496●	0.560	0.430	0.350	0.310	0.290
2266(5566)S-14	14	157-8497●	0.580	0.440	0.360	0.330	0.300
2266(5566)S-16	16	157-8498●	0.630	0.480	0.380	0.350	0.330
2266(5566)S-18	18	157-8499●	0.650	0.490	0.390	0.360	0.340
2266(5566)S-20	20	157-8500●	0.440	0.340	0.270	0.240	0.220
Right Angle Headers							
2269(5569)R-02	2	157-8501●	0.250	0.183	0.149	0.137	0.126
2269(5569)R-04	4	157-8502●	0.350	0.270	0.210	0.183	0.172
2269(5569)R-06	6	157-8503●	0.400	0.310	0.240	0.220	0.210
2269(5569)R-08	8	157-8504●	0.450	0.350	0.280	0.240	0.220
2269(5569)R-10	10	157-8505●	0.560	0.430	0.350	0.310	0.290
2269(5569)R-12	12	157-8506●	0.610	0.460	0.370	0.340	0.310
2269(5569)R-14	14	157-8507●	0.670	0.510	0.400	0.370	0.350
2269(5569)R-16	16	157-8508●	0.720	0.540	0.440	0.390	0.370
2269(5569)R-18	18	157-8511●	0.790	0.600	0.480	0.430	0.400
2269(5569)R-20	20	157-8512●	0.850	0.640	0.520	0.460	0.430

4.2mm Plug & Receptacle Housings

5557A / 5559A series



Receptacle Housing



Plug Housing

- 4.2mm grid spacing
- Single Row
- Colour - white
- Flammability rating - UL 94V-2



Housing Material	Contact Material	Contact Plating	Current Rating	Voltage Rating	Operating Temperature
High Temp. Plastic	Phosphor Bronze	Tin Plated	9A	600V	-40 bis 105°C

523253

Mfrs. List No.	No. of Ways	Order Code	5+	100+	250+	500+	1K+
Free Hanging Receptacle							
2257(5557)A-03	3	157-8513●	0.183	0.132	0.107	0.095	0.089
2257(5557)A-04	4	157-8514●	0.160	0.118	0.095	0.084	0.079
2257(5557)A-05	5	157-8515●	0.210	0.148	0.118	0.105	0.099
Panel Mount Plugs							
2259(5559)A-03	3	157-8516●	0.220	0.165	0.131	0.118	0.110
2259(5559)A-04	4	157-8517●	0.290	0.210	0.167	0.150	0.139
2259(5559)A-05	5	157-8518●	0.310	0.220	0.183	0.164	0.154
Crimp Pin							
2259(5559)T-2426-BS	16 - 26 AWG	157-8526●	0.046	0.033	0.022	—	—
Crimp Socket							
2257(5557)T-2426-BS	16 - 26 AWG	157-8527●	0.035	0.027	0.018	—	—

4.2mm Vertical & Right Angle Headers

5569SA-PG / 5566RA-PG series



- Orientation - Vertical and Right Angle Headers available
- 4.2mm grid spacing
- Single Row
- Mounting Peg
- Colour - white
- Flammability rating - UL 94V-2
- 5569SA-PG & 5566RA-PG mate with Receptacle Housings 5557A



Housing Material	Contact Material	Contact Plating	Current Rating	Voltage Rating	Operating Temperature
Nylon 6,6	Brass	Tin Plated	9A	600V	-40 bis 105°C

523261

Mfrs. List No.	No. of Ways	Order Code	5+	100+	250+	500+	1K+
Vertical Headers							
2266(5566)SA-03-01	3	157-8519●	0.52	0.39	0.31	0.28	0.27
2266(5566)SA-04-PG-01	4	157-8520●	0.56	0.43	0.34	0.30	0.29
2266(5566)SA-05-PG-01	5	157-8521●	0.61	0.46	0.37	0.34	0.31
Right Angle Headers							
2269(5569)RA-03-PG-01	3	157-8523●	0.45	0.35	0.28	0.24	0.22
2269(5569)RA-04-PG-01	4	157-8524●	0.48	0.37	0.29	0.27	0.24
2269(5569)RA-05-PG-01	5	157-8525●	0.51	0.38	0.30	0.28	0.25

Mini Universal Mate-N-LOK II



- secondary locking plug and cap housing assemblies
- fully polarized to provide proper plug-to-cap mating
- mates with Standard Mini-Universal MATE-N-LOK headers and connectors
- pin and socket contact can be inserted intermixed for coding possibilities
- not for interrupting current!
- UL and C-UR (CSA equivalent) recognized

353145

Mini Universal Mate-N-LOK II

Housings



dual row



single row



Matrix

- multipole plug and socket housings
- single row, dual row and matrix versions for cable connection

No. of ways:	2-24	Dielectric strength:	1500V AC/VDC
Pitch:	4,14mm	Rated voltage:	600V AC/DC
Material, Housing:	Polyamide, white, UL94V-0	Rated current:	max.10,5A
Contact resistance:	20mΩ	life time:	25 mating cycles
Isolation resistance:	100mΩ	Working temperature:	-55°C to +105°C

353295

No. of Ways	Mfrs. List No.	Order Code	1+	100+	250+	500+
Plug housing						
2	1	794184-1	361-4633●	0.51	0.47	0.46
4	2	794188-1	361-4670●	0.84	0.72	0.70
10	2	794196-1	361-4785●	1.11	0.99	0.96
12	2	794198-1	361-4797●	1.70	1.48	1.35
16	2	794206-1	361-4815●	1.52	1.29	1.28
20	2	794210-1	361-4839●	2.05	1.86	1.78
24	2	794214-1	361-4852●	2.34	2.08	2.02
Socket housing						
12	2	794199-1	361-4888●	1.33	1.17	1.15
24	2	794215-1	361-4943●	2.23	2.00	1.90

Mini Mate-N-Lok II

PCB Receptacle



- Multipole PCB receptacle
- Polarised to ensure correct mating
- Pitch 4,14mm
- Contacts accept wire size range 30-16 AWG

Housing	Polyamid, UL94V-0	Isolation withstand:	100MΩ
Dielectric Withstanding Voltage	1500 VAC/VDC	Durability	25 Mating Cycles
Current Rating	Up to 10.5A per circuit, 2 position	Temperature Range	-20°C To +65°C

239826

No. of Ways	Rows	Mfrs. List No.	Order Code	1+	100+	250+
Straight, Tin Plated Contacts						
2	1	1-770166-0	109-8523●	0.62	0.55	0.54
3	1	1-770170-0	109-8525●	0.52	0.48	0.46
4	2	1-770174-0	109-8526●	1.15	1.06	1.01
6	2	1-770178-0	109-8527●	0.88	0.78	0.73
8	2	1-794065-0	109-8528●	1.14	1.05	1.03
9	Matrix	1-770182-0	109-8529●	1.36	1.23	1.18
12	2	1-794066-0	109-8530●	1.29	1.15	1.11
12	Matrix	1-770186-0	109-8533●	1.21	1.08	1.03
20	2	1-794070-0	109-8546●	1.57	1.42	1.39

No. of Ways	Rows	Mfrs. List No.	Order Code	1+	100+	250+
Straight, Gold Plated Contacts						
2	1	1-770166-1	124-8294●	0.81	0.73	0.71
3	1	1-770170-1	124-8295●	0.92	0.85	0.82
4	2	1-770174-1	124-8296●	0.90	0.85	0.81
6	2	1-770178-1	124-8298●	1.40	1.31	1.24
8	2	1-794065-1	124-8302●	1.54	1.47	1.37
Right Angled, Tin Plated Contacts						
2	1	1-770966-0	109-8556●	0.78	0.69	0.67
3	1	1-770967-0	109-8559●	0.82	0.71	0.69
4	2	1-770968-0	109-8564●	0.86	0.79	0.73
6	2	1-770969-0	109-8565●	1.34	1.21	1.17
8	2	1-770970-0	109-8566●	1.17	1.06	1.03
10	2	1-770971-0	109-8567●	1.29	1.16	1.12
12	2	1-770972-0	109-8569●	1.64	1.47	1.44
14	2	1-770973-0	109-8570●	1.74	1.57	1.53
24	2	1-794108-0	109-8584●	2.63	2.38	2.30

Mini Mate-N-Lok II Crimp Contacts



- Crimp Contacts: Brass, Tin plated
- Supplied loose

Wire size	Insulation-Ø mm	L mm	Mfrs. List No.	Order Code
Pin Contact				
0,05-0,12	0,89-1,27	19,69	794224-1	361-5315
0,12-0,3	1,19-1,75	19,69	794226-1	361-5327
0,3-0,8	1,50-2,39	19,69	794228-1	361-5339
0,5-1,2	2,01-3,20	19,69	794230-1	361-5340
Socket Contact				
0,05-0,12	0,89-1,27	19,69	794225-1	361-5352
0,12-0,3	1,19-1,75	19,69	794227-1	361-5364
0,3-0,8	1,50-2,39	19,69	794229-1	361-5376
0,5-1,2	2,01-3,20	19,69	794231-1	361-5388

239866

Order Multiple=10	Order Code	10+	50+	100+
Mfrs List No.				
Pin Contact				
794224-1	361-5315●	0.061	0.055	0.042
794226-1	361-5327●	0.061	0.054	0.047
794228-1	361-5339●	0.116	0.103	0.090
794230-1	361-5340●	0.118	0.081	0.065
Socket Contact				
794225-1	361-5352●	0.061	0.055	0.042
794227-1	361-5364●	0.092	0.081	0.070
794229-1	361-5376●	0.059	0.052	0.045
794231-1	361-5388●	0.118	0.081	0.065

Mini Universal Mate-N-Lok. Splash-Proof Sealed Connectors



- Housing may be used to accommodate either pin or socket contacts
- Fully polarised
- Use with splash-proof seal to ensure a water and dust resistance assembly
- Dual locking lances assure optimum contact stability
- UL Recognised

Current	9A Max	Colour	Tin
Rated voltage	600V	Contact Material	Brass, with Tin finish
Temperature Range	-20°C to +105°C	Centreline	4.14mm
Housing Material	Nylon, UL94V-0	Wire range	26 - 18 AWG

413327

No. of Ways	Mfrs. List No.	Order Code	5+	50+	250+	+
Order Multiple=5						
Plug Housing - Accepts pin or socket contacts						
2	794894-1	964-2722●	0.470	0.430	0.400	--
4	794805-1	964-2730●	0.450	0.410	0.380	--
6	794895-1	964-2749●	0.520	0.470	0.440	--
8	794821-1	964-2757●	0.710	0.660	0.620	--
10	794781-1	964-2765●	0.900	0.810	0.770	--
Receptacle Housing - Accepts pin or socket contacts						
2	794896-1	964-2773●	0.490	0.440	0.430	--
4	794939-1	964-2781●	0.390	0.370	0.360	--
6	794940-1	964-2790●	0.810	0.720	0.680	--
8	794941-1	964-2803●	1.030	0.940	0.900	--
10	794942-1	964-2811●	0.970	0.880	0.820	--
Order Multiple=5						
Interface Seals						
2	794772-2	964-2820●	0.220	0.210	0.195	--
4	794772-4	964-2838●	0.240	0.220	0.210	--
6	794772-6	964-2846●	0.171	0.159	0.149	--
8	794772-8	964-2854●	0.210	0.200	0.189	--

Order Multiple=5	Order Code	5+	50+	250+	+
Mfrs. List No.					
Interface Seals					
10	1-794772-0	964-2862●	0.220	0.210	0.200
Plug Seal, Single Cavity	794995-1	964-2870●	0.120	0.118	0.105
Seal, Single Wire	794758-1	964-2889●	0.120	0.118	0.105
Order Multiple=20					
Pin Contacts					
26-22AWG Pin Contact	170363-1	133-760●	0.103	0.091	0.080
22-18AWG Pin Contact	170364-1	133-772●	0.073	0.069	0.063
Socket Contacts					
26-22AWG Socket Contact	170365-1	133-784●	0.103	0.091	0.080
22-18AWG Socket Contact	170366-1	133-796●	0.103	0.091	0.080
Order Multiple=1					
Tooling					
Tool for 26-22AWG	91529-1	433-9873			466.090
Tool for 22-18AWG	90759-1	152-3510			168.240

Commercial 'Mate-N-Lok' Crimp 2 Way



- Compact cable, panel or pcb housing
- Integral locking latches
- Fully polarised
- Fast and easy mating
- Approvals UL, CSA

Current rating	15A @ 250V ac	Mating cycles	50
Contact resistance	4mΩ max	Housing	Clear Nylon 6/6, UL94V-2
Dielectric strength	1500V ac	Contacts	Brass, tin plated
Insulation resistance	500MΩ	Temperature range	-55°C to +105°C

209079

Plugs, Receptacles and PCB Headers

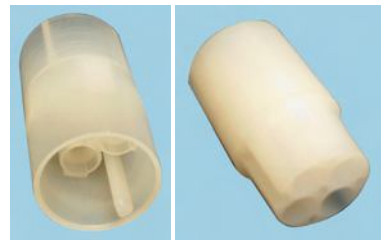


PCB header Socket housing Pin housing
PCB hole dia = 1.8

209080

Order Multiple=5	Order Code	5+	10+	100+	250+
No. of Ways	Mfrs. List No.				
Pin Housing - Cable Mount - Accepts Pin Contacts					
1	1-480350-0	124-8258●	0.098	0.086	0.065
2	1-480319-0	299-455●	0.470	0.310	0.220
3	1-480305-0	299-467●	0.990	0.660	0.520
4	1-480426-0	299-479●	0.830	0.530	0.450
8	1-480345-0	175-3964●	1.320	0.850	0.640
Socket Housing - Cable Mount - Accepts Socket Contacts					
1	1-480349-0	124-8257●	0.105	0.092	0.070
2	1-480318-0	299-492●	0.410	0.290	0.200
3	1-480303-0	299-509●	0.890	0.570	0.440
4	1-480424-0	148-085●	0.850	0.550	0.420
8	1-480283-0	175-3850●	1.530	1.030	0.770
Pin Housing - Panel Mount					
4	1-480426-0	299-479●	0.830	0.530	0.450
PCB Vertical Pin Headers					
2	350209-1	299-522●	2.380	1.530	1.120
3	350210-1	299-534●	3.040	1.950	1.500
4	350211-1	148-086●	1.290	1.190	1.170
8	350212-1	359-890●	2.070	1.360	1.040
PCB Right Angle Pin Headers					
2	794120-1	124-8266●	0.590	0.560	0.540
PCB Vertical Socket Headers					
4	770997-1	124-8265●	2.700	2.540	2.420

Circular Housings



Pin Housing Socket Housing

447037

Order Multiple=10	Order Code	10+	50+	100+	250+
No. of Ways	Mfrs. List No.				
Pin Housing					
4	925075	124-8253●	0.230	0.220	0.210
Socket Housing					
4	925076	124-8254●	0.260	0.230	0.210

Over 480,000 products online



Rectangular Multipole - continued

Commercial Mate-N-Lok 6 Way



- 6 way
- Double row contact layout
- Pin and Socket Housing are free hanging
- Positive lock

447798

Order Multiple=5	Mfrs. List No.	Order Code	5+	10+	100+	250+
Pin Housing	1-480340-0	299-480●	1.14	0.75	0.59	0.49
Socket Housing	1-480270-0	299-510●	1.26	0.85	0.63	0.53
PCB Header	1-380999-0	299-546●	2.86	1.85	1.42	1.21

Crimp Terminals for Commercial 'Mate-N-Lok'



	Wire Size (AWG)	Wire Size (mm ²)	Insulation Diameter	Contact Material	Mfrs. List No.	Order Code
Pin	18-24	0.2-0.8	1.52-2.54	Brass	60618-1	124-8260
Pin	18-20	0.5-1	1.8-3.3	Phosphor Bronze	163305-2	105-6036
Pin	14-20	0.5-2	2.54-3.3	Brass	60620-1	124-8263
Pin	14-18	1-2.5	2.5-3.8	Brass	163307-2	299-560
Socket	18-24	0.2-0.8	1.5-2.5	Brass	60617-1	124-8259
Socket	18-20	0.5-1	1.8-3.3	Brass	163304-2	149-091
Socket	14-20	0.5-2	2.5-3.3	Brass	60619-1	124-8262
Socket	14-18	1-2.5	2.5-3.8	Brass	163306-2	299-571

Contact Plating

Tin

209081

100 Per Pack	Order Code	1+	5+	10+	25+
Pin	105-6036●	13.390	12.610	11.520	10.660
Socket	149-091●	13.790	12.950	11.870	10.980
Socket	299-571●	12.190	11.480	10.510	9.710
Multiples of 100		100+	500+	1K+	2K5+
Pin	124-8260●	0.250	0.240	0.230	0.220
Pin	124-8263●	0.210	0.200	0.191	0.184
Socket	124-8259●	0.188	0.176	0.166	0.160
Socket	124-8262●	0.164	0.153	0.147	0.140

Tooling for Commercial 'Mate-N-Lok'



9629432



L=285

Industrial ratchet crimp tool

Also see low cost crimp tool, Pro-Crimper SEE WEBSITE

209082

Wire Size mm ²	Mfrs. List No.	Order Code	Price Each
Industrial Crimp Tools			
0.5-1	575937	299-583	525.14
1-2.5	575938	299-595	431.46
Crimp Tool			
0.2-1.0mm ²	91512-1	962-9432	302.81
0.6-2.5mm ²	91504-1	962-9459	302.81
Extraction Tool	465644-1	148-090	30.23

Universal MATE-N-LOK



The range offers extremely reliable, economical and versatile capabilities for multipole plug connectors for internal and external wiring of computers, computer peripherals, office systems, automatic sales machines, and various other applications.

Polarized housings and optionally mixed fittings in the housing chambers with pins or sockets result in versatile combination options. The housings are suitable for freely suspended couplings or for plug connections which can be permanently mounted.

250102

Universal MATE-N-LOK

PCB Vertical Plug & Receptacle Housings UL94V-0/UL94V-2



- Plug and Receptacle housings for PCB mounting
- Single row or matrix pin layout
- 6.35mm Grid
- UL94V-0 or UL94V-2 Versions available
- Approvals: VDE, CSA, UL recognised

Housing Material:	White Nylon	Conductor Area :	0.05mm ² -5.0mm ²
	UL94V-0/UL94V-2	Rated Current:	19A
Contact material:	CuSn	Contact resistance:	≤35mΩ
Solder pin width:	1.32mm	Temperature rating:	-55°C to +105°C

355978

Poles	Rows	Mfrs List No	Order Code	1+	Price Each	10+	50+
PCB Plug Housing UL94V-0							
2	1	826839-3	342-2793●	0.60	0.51	0.50	
3	1	826840-3	342-2800●	0.72	0.58	0.56	
4	1	826841-3	342-2811●	1.23	1.02	0.98	
5	1	826842-3	342-2823●	1.00	0.83	0.80	
6	1	826843-3	342-2835●	1.64	1.38	1.30	
PCB Socket Housing UL94V-0							
2	1	826846-3	342-2628●	0.62	0.51	0.50	
3	1	826847-3	342-2630●	0.67	0.54	0.53	
4	1	826848-3	342-2641●	0.95	0.76	0.75	
5	1	826849-3	342-2653●	0.75	0.64	0.61	
6	2	829182-3	342-2859●	1.07	0.92	0.89	
12	Matrix	829184-3	342-2872●	1.66	1.38	1.31	

Universal MATE-N-LOK



- Horizontal printed circuit board base
- Male and female version
- 6.35 mm grid
- Single row
- Approvals: VDE, CSA, UL recognised

Housing:		Volume resistance:	20 mΩ
Contacts:		Rated current:	to
Solder pin width:	1.32 mm	Temperature range:	To +

239854

No. of Ways	Mfrs. List No.	Order Code	1+	Price Each	10+	100+
Pin						
2	1-350942-0	199-9977●	0.94	0.90	0.82	
3	1-350943-0	199-9989●	1.11	1.08	1.04	
4	1-350944-0	199-9990●	0.95	0.94	0.93	
5	1-350945-0	342-2434●	1.54	1.30	1.26	
Socket						
3	643228-1	342-2471●	0.94	0.82	0.73	

Universal MATE-N-LOK

UL94V-0



- Panel or free mounting housings
- Offset latching lugs with or without window
- Single row or matrix pin layouts
- 6.35mm grid
- Approvals: VDE, CSA, UL recognised

Housing material:	Nylon, UL94V-0	Rated current :	to 19A
Contact material:	Copper / Tin	Rated voltage:	600V AC/DC
Soldering pin diameter:	1.32mm	Volume resistance:	≤35mΩ
Conductor cross section	0.05-5.0mm ²	Temperature range:	-55°C to +105°C
Insulation:	to Ø 5,1mm	Colour:	White

353567

* = no mounting lugs for strain reliefs, (N) = Colour: Natural

Ways	Rows	Mfrs. List No.	Order Code	5+	Price Each	10+	100+
Plug Housing, UL94V-0							
2	1	350777-1	750-074●	0.75	0.61	0.48	
3	1	350766-1	750-086●	0.91	0.73	0.58	
4	1	350779-1	750-098●	1.14	0.91	0.70	
5	1	350809-1	750-104●	1.28	1.02	0.96	
6	2	350715-1	750-116●	1.51	1.20	0.98	
9	Matrix	350720-1	750-128●	1.59	1.38	1.01	
12	Matrix	350735-1	750-130●	1.73	1.44	1.06	
15	Matrix	350736-1	750-141●	2.64	2.16	1.65	
Plug Housing, UL94V-0, with window latch							
2	1	350777-4	124-8215●	0.32	0.29	0.27	
3	1	350766-4	342-2537●	0.30	0.27	0.25	
4	1	350779-4	342-2549●	0.28	0.26	0.24	
5* (N)	1	926299-3	342-2550●	0.35	0.32	0.28	
6*	2	350715-4	342-2914●	0.34	0.29	0.27	
9	Matrix	350720-4	342-2938●	0.43	0.35	0.33	
Receptacle (Cap) Housing, UL94V-0							
2	1	350778-1	750-153●	0.84	0.56	0.52	
3	1	350767-1	750-165●	1.00	0.65	0.59	
4	1	350780-1	750-177●	1.29	0.85	0.78	
5	1	350810-1	750-189●	2.03	1.36	1.23	
6	2	350781-1	750-190●	1.65	1.11	1.01	
9	Matrix	350782-1	750-207●	1.69	1.12	1.02	
9 (N)	Matrix	927231-3	785-4684●	0.49	0.42	0.41	

* = no mounting lugs for strain reliefs, (N) = Colour: Natural

Ways	Rows	Mfrs. List No.	Order Code	5+	Price Each 10+	100+
Receptacle (Cap) Housing, UL94V-0						
12	Matrix	350783-1	750-219●	1.75	1.57	1.17
12 (N)	Matrix	926681-3	342-2987●	0.37	0.32	0.31
15	Matrix	350784-1	750-220●	2.79	1.84	1.68
15 (N)	Matrix	926647-3	342-2999●	0.66	0.53	0.51
PCB Pin Headers, UL94V-0						
2	1	350786-1	750-232●	1.42	0.95	0.86
3	1	350789-1	750-244●	1.67	1.10	1.01
4	1	350792-1	750-256●	2.52	1.68	1.53
5	1	640900-1	750-268●	2.67	1.76	1.61
6	2	350711-1	750-270●	3.18	2.61	1.96
9	Matrix	350712-1	750-281●	3.45	2.26	2.08
12	Matrix	350713-1	750-293●	2.98	2.34	1.78
15	Matrix	350714-1	750-300●	4.39	3.64	2.71
PCB Socket Headers, UL94V-0						
3	1	350825-1	124-8216●	2.02	1.90	1.73
5	1	640901-1	124-8217●	1.67	1.56	1.43
6	2	350827-1	124-8218●	1.24	1.16	1.08
9	Matrix	350828-1	124-8219●	1.48	1.38	1.28

Universal MATE-N-LOK UL94V-2



- Panel or free mounting housings
- Single row or matrix pin layouts
- 6.35mm grid
- Approvals: VDE, CSA, UL recognised

Housing material: Nylon, UL94V-2
Contact material: Copper / Tin
Soldering pin diameter: 1.32mm
Conductor cross section: 0.05-5.0mm²
Insulation: to Ø 5.1mm

Rated current: to 19A
Rated voltage: 600V AC/DC
Volume resistance: <35mΩ
Temperature range: -55°C to +105°C

449809

Ways	Rows	Mfrs. List No.	Order Code	5+	Price Each 10+	100+
Plug Housing, UL94V-2						
2	1	1-480698-0	285-146●	0.66	0.55	0.42
3	1	1-480700-0	285-158●	0.64	0.53	0.46
4	1	1-480702-0	285-160●	0.91	0.73	0.58
5	1	1-480763-0	285-171●	1.03	0.82	0.64
6	2	1-480704-0	285-183●	1.11	0.91	0.74
9	Matrix	1-480706-0	285-195●	1.26	1.02	0.65
12	Matrix	1-480708-0	285-201●	1.21	0.97	0.87
15	Matrix	1-480710-0	285-213●	2.11	1.70	1.35
Receptacle (Cap) Housing, UL94V-2						
2	1	1-480699-0	285-225●	0.65	0.53	0.45
3	1	1-480701-0	285-237●	0.71	0.57	0.46
4	1	1-480703-0	285-249●	0.89	0.73	0.58
5	1	1-480764-0	285-250●	1.04	0.81	0.63
6	2	1-480705-0	285-262●	1.06	0.80	0.75
9	Matrix	1-480707-0	285-274●	1.30	1.06	0.81
12	Matrix	1-480709-0	285-286●	1.37	1.11	0.89
15	Matrix	1-480711-0	285-298●	2.09	1.69	1.35
PCB Pin Headers, UL94V-2						
2	1	350428-1	285-304●	1.15	0.94	0.74
3	1	350429-1	285-316●	1.33	1.07	0.86
4	1	350430-1	285-328●	1.93	1.55	1.27
5	1	640466-1	285-330●	2.47	2.00	1.82
6	2	350431-1	285-341●	2.58	1.82	1.37
9	Matrix	350432-1	285-353●	3.08	2.47	1.99
12	Matrix	350433-1	285-365●	3.32	2.67	2.09
15	Matrix	350434-1	285-377●	4.10	3.30	2.51

Universal 'Mate-N-Lok' Crimp 2 to 15 Way



Robust power connectors with panel, pcb or cable mount polarised housings. Contacts and housings accept dual wire combinations and have positive click latching. Crimp pin and socket terminals can be intermixed in the same housing and are completely enclosed. Recognised by UL (600V ac/dc) certified by CSA (250V ac/dc) and designed to meet VDE (380V ac/dc group B).

Current rating: Free housings 15A @ 600V ac
PCB header 12A @ 600V ac
Contact resistance: 3.5mΩ max
Dielectric strength: Free housing 5000V ac/
10000V dc
PCB housing 2900V ac
Insulation resistance: 1000MΩ
50
Mating cycles
Housing
Contacts
Clear Nylon 6/6, UL94V-2
Crimp - brass, tin plated
PCB - Phosphor bronze, tin plated
Temperature range: -55°C to +105°C

209074/406573

Circular Mate -N-Lok



- Circular design allows the connector to pass through 22mm panel knock out hole
- Fully polarised to ensure correct mating
- Uses standard Mate-N-Lok contacts and tooling
- 6 ways accommodates most major electrical industry requirements

Voltage rating: 600V
Current rating: 20A
Insulation Resistance: 1000MΩ
Temperature Range: -20°C to 65°C
Durability: 50 mating cycles
Colour: Natural
Housing Material: Nylon
Flammability Rating: UL94V-0, UL94V-2

386392/406576

No. of Ways	Mfrs. List No.	Order Code	1+	Price Each 100+	250+	500+
Plug Housing 6	794911-1	857-5126●	0.79	0.72	0.65	0.61

Universal MATE-N-LOK Sealed Bulkhead Connectors



New

● The bulkhead mount Universal MATE-N-LOK connectors facilitate sealed panel mounting and work with existing Universal MATE-N-LOK seals to provide a fully-sealed interconnection system

- Available in 4, 6, 9 and 12 positions
- Sealed, flange mount design
- Mates to standard Universal MATE-N-LOK plug housings
- Accepts standard Universal MATE-N-LOK contacts
- Works with standard Universal MATE-N-LOK connector interface and wire seals
- Anti-rotation feature aids installation
- Rear mount flange design enables use in wire harnesses
- Pins and sockets can be intermixed in the same housing
- Flammability Rating = UL 94V-0

522354

Mfrs. Part No.	No. of Ways	Order Code	1+	Price Each 10+	25+	25+
1604256-1	4	163-1747●	1.74	1.60	1.45	1.38
1604210-1	6	163-1748●	1.68	1.55	1.41	1.34
1604254-1	9	163-1749●	1.74	1.60	1.45	1.38

Plugs, Receptacles and PCB Headers



Plug housing Mates with receptacle or PCB header
Cable or panel Mounting receptacle
Panel thickness = 0.76-2.29
PCB Header
PCB hole dia. = 1.8
Pitch = 6.35

- Contact arrangement are straight in line for 2, 3, 4, 5 way housing and rows of 3 for 6, 9, 12 and 15 way housings
- Moulded in opaque white to UL94V-0

209162

Order Multiple=5			Price Each			
No. of Ways	Mfrs. List No.	Order Code	5+	10+	100+	250+
Plug-Housings - Accepts pin or socket contacts						
2	350777-1	750-074●	0.75	0.61	0.48	0.40
3	350766-1	750-086●	0.91	0.73	0.58	0.47
4	350779-1	750-098●	1.14	0.91	0.70	0.56
5	350809-1	750-104●	1.28	1.02	0.96	0.83
6	350715-1	750-116●	1.51	1.20	0.98	0.80
9	350720-1	750-128●	1.59	1.38	1.01	0.87
12	350735-1	750-130●	1.73	1.44	1.06	0.89
15	350736-1	750-141●	2.64	2.16	1.65	1.33
Receptacle Housings - Accepts pin or socket contacts						
2	350778-1	750-153●	0.84	0.56	0.52	0.47
3	350767-1	750-165●	1.00	0.65	0.59	0.54
4	350780-1	750-177●	1.29	0.85	0.78	0.71
5	350810-1	750-189●	2.03	1.36	1.23	1.12
6	350781-1	750-190●	1.65	1.11	1.01	0.90
9	350782-1	750-207●	1.69	1.12	1.02	0.94
12	350783-1	750-219●	1.75	1.57	1.17	0.98
15	350784-1	750-220●	2.79	1.84	1.68	1.47
PCB Pin Headers						
2	350786-1	750-232●	1.42	0.95	0.86	0.77
3	350789-1	750-244●	1.67	1.10	1.01	0.89
4	350792-1	750-256●	2.52	1.68	1.53	1.37
5	640900-1	750-268●	2.67	1.76	1.61	1.46
6	350711-1	750-270●	3.18	2.61	1.96	1.49
9	350712-1	750-281●	3.45	2.26	2.08	1.75
12	350713-1	750-293●	2.98	2.34	1.78	1.45
15	350714-1	750-300●	4.39	3.64	2.71	2.13

£ € 40,000 PRICES REDUCED



Rectangular Multipole - continued

Crimp Terminals for Universal 'Mate-N-Lok'



- Dual locking lances provide contact stability
- Low contact mating force
- Tin Plated
- LP = Loose Piece, TR = Tape and Reel

Wire Size (AWG)	Wire Size (mm ²)	Insulation Diameter	Material	Mfrs. List No.	Order Code	
Pin Contacts						
24-18	0.2-0.8	1.0-2.5	Brass	926896-1	285-389	LP
24-18	0.2-0.8	1.0-2.5	Brass	926885-1	124-8244	TR
24-18	0.2-0.8	1.0-2.5	Phosphor Bronze	926885-3	124-8245	TR
20-14	0.5-2.1	1.5-3.3	Brass	926894-1	285-390	LP
20-14	0.5-2.1	1.5-3.3	Brass	926883-1	124-8240	TR
20-14	0.5-2.1	1.5-3.3	Phosphor Bronze	926883-3	124-8241	TR
20-14	0.5-2	3.3-5.1	Brass	350538-1	124-8214	TR
16-13	1.5-2.5	3.3-5.1	Brass	926868-1	124-8233	TR
16-13	1.5-2.5	3.3-5.1	Phosphor Bronze	926868-3	124-8234	TR
12-10	3.1-4.9	3.3-5.1	Phosphor Bronze	350922-3	124-8222	TR
Split Pin Contacts						
24-18	0.2-0.8	1.0-2.5	Brass	926886-1	124-8246	TR
24-18	0.2-0.8	1.0-2.5	Phosphor Bronze	926886-3	124-8247	TR
20-14	0.5-2.1	1.5-3.3	Brass	926887-1	124-8249	TR
20-14	0.5-2.1	1.5-3.3	Phosphor Bronze	926887-3	124-8251	TR
16-13	1.5-2.5	3.3-5.1	Brass	926899-1	124-8252	TR
Socket Contacts						
24-18	0.2-0.8	1.0-2.5	Brass	926895-1	285-407	LP
24-18	0.2-0.8	1.0-2.5	Brass	926884-1	124-8242	TR
24-18	0.2-0.8	1.0-2.5	Phosphor Bronze	926884-3	124-8243	TR
20-14	0.5-2.1	1.5-3.3	Brass	926893-1	285-419	LP
20-14	0.5-2.1	1.5-3.3	Brass	926882-1	124-8238	TR
20-14	0.5-2.1	1.5-3.3	Phosphor Bronze	926882-3	124-8239	TR
20-14	0.5-2	3.3-5.1	Brass	350537-1	124-8213	TR
16-13	1.5-2.5	3.3-5.1	Brass	926869-1	124-8235	TR
16-13	1.5-2.5	3.3-5.1	Phosphor Bronze	926869-3	124-8237	TR
12-10	3.1-4.9	3.3-5.1	Phosphor Bronze	350923-3	124-8223	TR

209076

100 Per Pack		Price Per Pack			
Order Code		1+	5+	10+	25+
Loose Piece					
Pin Contacts					
285-389●		8.320	7.500	7.230	6.880
285-390●		8.640	7.800	7.220	6.790
Socket Contacts					
285-407●		8.360	7.540	7.130	6.700
285-419●		6.460	5.820	5.560	5.240
Order Multiple=100		100+	500+	1K+	2K5+
Tape and Reel					
Pin Contacts					
124-8244● RL		0.083	0.079	0.076	0.072
124-8245● RL		0.046	0.043	0.039	0.037
124-8240● RL		0.035	0.030	0.027	0.022
124-8241● RL		0.046	0.042	0.039	0.036
124-8214● RL		0.039	0.031	0.029	0.028
124-8233● RL		0.063	0.059	0.054	0.050
124-8234● RL		0.061	0.056	0.051	0.048
124-8222● RL		0.117	0.111	0.102	0.094
Split Pin Contacts					
124-8246● RL		0.043	0.041	0.038	0.035
124-8247● RL		0.069	0.062	0.058	0.054
124-8249● RL		0.063	0.058	0.055	0.050
124-8251● RL		0.066	0.061	0.055	0.052
124-8252● RL		0.046	0.042	0.039	0.036
Socket Contacts					
124-8242● RL		0.043	0.041	0.038	0.035
124-8243● RL		0.066	0.061	0.056	0.052
124-8238● RL		0.041	0.038	0.035	0.032
124-8239● RL		0.064	0.060	0.054	0.051
124-8213● RL		0.043	0.039	0.036	0.032
124-8235● RL		0.063	0.058	0.054	0.050
124-8237● RL		0.065	0.061	0.056	0.052
124-8223● RL		0.164	0.153	0.141	0.129

Universal MATE-N-LOK



Open Type

Enclosed Type

- Strain relief for Universal Mate-N-Lok male connector housing (plug)
- Two parts required per strain relief

Housing material: Polyamide, 6.6 white, -55 Temperature range: -55°C to +105°C
239873/406587

Style	No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+
Open Type Strain Relief						
In-Line	2, 3, 4, 5, 6, 8	350811-1	182-2081●	0.84	0.78	0.76
Matrix	6, 9, 12, 15	350812-1	182-2615●	0.55	0.54	0.52
Enclosed Type Strain Relief						
In-Line	2	640713-2	124-8225●	0.94	0.88	0.79
In-Line	3	640714-1	124-8226●	0.77	0.71	0.65
In-Line	4	641776-1	124-8231●	0.97	0.92	0.83
In-Line	5	643030-1	124-8232●	0.63	0.60	0.55
Matrix	6	640715-1	124-8227●	0.82	0.77	0.70
Matrix	9	640716-1	124-8228●	0.95	0.89	0.82
Matrix	12	640717-1	124-8229●	1.05	0.99	0.90
Matrix	15	640718-1	124-8230●	1.19	1.12	0.99

Tooling for Universal 'Mate-N-Lok'



Industrial ratchet crimp tool

Extraction tool

209078

Wire Size mm ²	Mfrs. List No.	Order Code	Price Each
Industrial Crimp Tools			
0.2-0.8	654148-1	285-420	346.96
Extraction Tool			
	539972-1	990-9125	30.57
Crimp Tool			
0.2-1mm ²	91510-1	962-9440	324.99
0.6-2.5mm ²	91500-1	962-9475	324.99

SDE Die and Tooling options available see Page 1625

Sealed Universal Mate-N-Lok



- Economical splashproof system
- Upgrades existing Mate-N-Lok product
- Utilises two wire seals and one interface seal per mating pair
- Sealing plug for unused cavities

209305/406588

Order Multiple=5		Price Each				
No. of Ways	Mfrs. List No.	Order Code	5+	500+	1K+	5K+
Interface Seal						
2	794269-1	319-4851●	0.135	0.122	0.110	0.100
3	794271-1	319-4863●	0.158	0.147	0.140	0.135
4	794273-1	319-4875●	0.155	0.144	0.138	0.133
6	794275-1	319-4887●	0.360	0.340	0.300	0.280
9	794277-1	319-4899●	0.490	0.460	0.440	0.420
12	794279-1	319-4905●	0.680	0.620	0.590	0.560
15	794281-1	319-4917●	0.820	0.750	0.720	0.690
Order Multiple=1						
Wire Seal			1+	500+	1K+	5K+
2	794270-1	319-4929●	0.175	0.163	0.154	0.145
3	794272-1	319-4930●	0.210	0.196	0.186	0.175
4	794274-1	319-4942●	0.250	0.240	0.210	0.200

Order Multiple=5		Price Each			
Order Multiple=1		1+	500+	1K+	5K+
Wire Seal					
6	794276-1	319-4954●	0.320	0.300	0.290
9	794278-1	319-4966●	0.610	0.580	0.550
12	794280-1	319-4978●	0.640	0.580	0.560
15	794282-1	319-4980●	0.950	0.870	0.830
Order Multiple=10					
Splashproof Sealing Plug		10+	100+	500+	5K+
	770377-1	319-4991●	0.400	0.360	0.350
Order Multiple=1					
Tooling		1+			
Seal Latch Tool	794381-1	319-5004	1.670		
Extraction Tool	1804030-1	129-9131	24.970		

Plug, Socket PCB Header Housings 6.35mm Pitch



Single Row



Matrix

- Panel, free hanging or Through Hole mounting options
- Single row or matrix pin layouts
- 6.35mm grid
- Crimp Terminals: Brass, Tin Plated
- UL94V-2



Specifications:-

Current Rating	13A	Voltage Rating	600V AC/DC
Insulation Material	Nylon 6.6	Insulation Resistance	1000Mohm
Contact Resistance	20mohm	Withstanding Voltage	5000V AC/min.
Operating Temp.	-55°C to 125°C		

528329

Ways	Rows	Order Code	10+	50+	100+	250+	500+
Plug Housings, Free Hanging							
2	1	168-7443●	0.320	0.270	0.230	0.200	0.170
3	1	168-7444●	0.370	0.310	0.270	0.230	0.200
4	1	168-7445●	0.480	0.400	0.350	0.300	0.260
5	1	168-7446●	0.510	0.430	0.370	0.320	0.270
6	Matrix	168-7447●	0.540	0.450	0.390	0.330	0.290
9	Matrix	168-7448●	0.700	0.590	0.510	0.430	0.370
12	Matrix	168-7449●	0.850	0.720	0.620	0.530	0.460
15	Matrix	168-7450●	1.020	0.860	0.740	0.630	0.550
Socket Housings, Free Hanging / Panel Mount							
2	1	168-7452●	0.320	0.270	0.230	0.200	0.170
3	1	168-7453●	0.370	0.310	0.270	0.230	0.200
4	1	168-7454●	0.480	0.400	0.350	0.300	0.260
5	1	168-7455●	0.510	0.430	0.370	0.320	0.270
6	Matrix	168-7456●	0.540	0.450	0.390	0.330	0.290
9	Matrix	168-7457●	0.700	0.590	0.510	0.430	0.370
12	Matrix	168-7458●	0.850	0.720	0.620	0.530	0.460
15	Matrix	168-7459●	1.020	0.860	0.740	0.630	0.550
PCB Headers, Through Hole							
2	1	168-7460●	0.540	0.450	0.390	0.330	0.290
3	1	168-7461●	0.740	0.630	0.540	0.460	0.400
4	1	168-7462●	0.930	0.780	0.680	0.570	0.500
5	1	168-7464●	1.070	0.900	0.780	0.660	0.570
6	Matrix	168-7465●	1.210	1.020	0.880	0.740	0.640
9	Matrix	168-7466●	1.740	1.470	1.270	1.070	0.930
12	Matrix	168-7467●	1.950	1.640	1.420	1.200	1.040
15	Matrix	168-7468●	2.420	2.040	1.760	1.490	1.290
Price Each							
Order Code		100+	1K+	2K5+	3K5+		
Crimp Pins							
16-20AWG		168-7471●	0.052	0.037	0.029	0.024	
18-22AWG		168-7473●	0.052	0.037	0.029	0.024	
Crimp Pins, Matrix							
16-20AWG		168-7474●	0.052	0.037	0.029	0.024	
18-22AWG		168-7476●	0.052	0.037	0.029	0.024	
Crimp Sockets							
16-20AWG		168-7469●	0.052	0.037	0.029	0.024	
18-22AWG		168-7470●	0.052	0.037	0.029	0.024	

0.140 Mate-N-Lok



- 6.09mm centerline spacing
- Fully polarised
- Available in 2, 3, 9 and 18 way
- Pin and socket contact equipped with dual locking lances
- UL Recognised

Current Per Contact	28A Max	Contact Plating	Tin
Rated voltage	250V	Centreline	6.10mm
Temperature Range	-55°C to +105°C	Wire range	10 - 20 AWG
Housing Material	Nylon, UL94V-2		

386394

Order Multiple=5		Price Each			
No. of Ways	Mfrs. List No.	Order Code	5+	10+	100+
Plug Housing -Free					
2	1-350345-0	857-8095●	0.42	0.38	0.37
3	1-350347-0	857-8117●	0.40	0.36	0.33
9	1-480586-0	857-8133●	0.93	0.85	0.73
Receptacle Housing -Free					
2	1-350344-0	857-8109●	0.41	0.37	0.36
3	1-350346-0	857-8125●	0.47	0.42	0.41
9	1-480585-0	857-8141●	0.91	0.81	0.72
Receptacle Housing -Panel					
9	1-480672-0	857-8168●	0.60	0.52	0.48

Order Multiple=10		Price Each			
Material	Mfrs. List No.	Order Code	10+	50+	100+
Pin Contacts					
14-20AWG Copper Al-loy	925660-1	857-8192●	0.173	0.148	0.133
14-20AWG Phosphor Bronze	925660-2	124-8267●	0.240	0.230	0.220
10-14AWG Copper Al-loy	925662-1	857-8214●	0.114	0.098	0.089
10-14AWG Phosphor Bronze	925662-2	124-8269●	0.240	0.230	0.220
Socket Contacts					
14-20AWG Brass	925661-1	857-8206●	0.173	0.148	0.133
14-20AWG Phosphor Bronze	925661-2	124-8268●	0.220	0.210	0.200
10-14AWG Brass	925663-1	857-8222●	0.118	0.108	0.096
Tooling					
Hand Tool	825582-2	359-798		93.170	
Die for Pro-Crimper	1752938-2	857-8230		153.950	

Four Way (5¼"/3" Drives)



A four way power connector that mates with most popular 5¼" and 3" standard disk drive units. To facilitate extension cable to be made up, a four way PCB mounting header is also available.



Pin housing Socket housing Socket contact PCB pin header
PCB mounting centres
4 x 1.78 dia,
5.08 (0.2") Pitch

Contacts	Phosphor bronze, tin plated	Wire size	20-18 SWG (0.5-1.0mm ²)
PCB contacts	Brass, tin plated	Insulation dia.	1.8 - 3.3

FOR THE COMPLETE RANGE OF COMMERCIAL 'MATE-N-LOK' CONNECTORS
SEE WEB SITE.

Mfrs. List No:	1-480426-0 = 299-479	1-480424-0 = 148-085	350211-1 = 148-086
	163305-2 = 105-6036	163304-2 = 149-090/1	

208980

Order Multiple=5		Price Each			
4 Way Housings	Order Code	5+	10+	100+	250+
Pin	299-479●	0.83	0.53	0.45	0.39
Socket	148-085●	0.85	0.55	0.42	0.39
PCB header	148-086●	1.29	1.19	1.17	1.14
Order Multiple=1					
Contacts		1+	5+	10+	25+
Pin (pack of 100)	105-6036●	13.39	12.61	11.52	10.66
Socket (pack of 10)	149-090●	1.03	--	--	--
Socket (pack of 100)	149-091●	13.79	12.95	11.87	10.98

Four Way (3" Drives)



Socket housing Socket contact

Contacts	Brass, tin plated	Wire size	0.14 — 0.52mm ² , 20-26AWG
Housing	Nylon 6.6 UL94V-0 and CSA	Insulation dia.	1.1, 1.9

Mfrs. List No. 171822-4=150-665, 170204-1=150-666

208981

Order Multiple=5		Price Each			
Housing	Order Code	5+	25+	50+	100+
	150-665●	0.360	0.310	0.240	0.198
Order Multiple=1					
Contacts		Price Per Pack			
		1+			
Socket (pack of 10)	150-666●			1.270	

Over 480,000 products online



Rectangular Multipole - continued

Tooling for Disk Drive Power Connectors

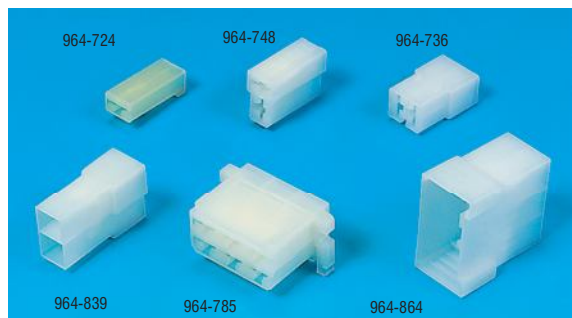


Mftrs. List No. 455822-2=148-089, 465644-1=148-090

209031

	Mftrs. List No.	Order Code	Price Each
Extraction Tool (6 way)	455822-2	148-089	18.46
Extraction Tool (4 way)	465644-1	148-090	30.23

'Fastin-Faston'



- Multi-position, wire harness coupling connector
- Locking lance on contacts for firm retention in housing
- 1 through to 11 way

Housing	Polyamide 6.6 UL94V-2	Temperature	105°C
Contacts	Brass, tin plated		

209213

Order Multiple=5				Price Each			
No. of Ways	Mftrs. List No.	Order Code	5+	10+	100+	250+	
Receptacle Housing							
1	925324-2	964-724●	0.133	0.091	0.073	0.060	
2	180923	964-736●	0.186	0.171	0.158	0.145	
2	180907	964-748●	0.193	0.158	0.147	0.135	
3	180941	964-750●	0.210	0.182	0.171	0.160	
4	180900	964-761●	0.260	0.250	0.182	0.170	
6	925276	964-773●	0.390	0.360	0.300	0.270	
6	180904	964-785●	0.210	0.200	0.194	0.185	
8	163007	964-797●	0.350	0.320	0.310	0.300	
11	151325-1	964-803●	0.960	0.890	0.850	0.820	
Tab Housing							
1	180916	964-815●	0.148	0.137	0.124	0.114	
2	180924	964-827●	0.200	0.171	0.160	0.148	
2	180908	964-839●	0.200	0.171	0.160	0.148	
3	180940	964-840●	0.200	0.181	0.158	0.147	
4	180901	964-852●	0.290	0.250	0.200	0.197	
6	180906	964-864●	0.380	0.350	0.330	0.320	
8	163008	964-876●	0.700	0.650	0.620	0.600	
11	151326-1	964-888●	1.100	1.020	0.970	0.940	

Crimp Terminals for 'Fastin-Faston'



Contact Brass, Tin plated

	Wire Size (mm²)	Insulation Diameter	Mftrs. List No.	Order Code
Receptacles	0.3-0.8	2.2-3.2	60838-1	964-890
Receptacles	0.8-2.1	3.1-4.1	42238-2	964-906
Receptacles	0.8-2.1	3.1-4.1	42282-2	964-918
Tab	0.3-0.8	2.2-3.1	61316-1	964-920
Tab	0.8-2.1	3.1-4.1	42241-2	964-931
Tab	0.8-2.1	3.1-4.1	42565-2	964-943

209212

25 Per Pack	Mftrs. List No.	Order Code	1+	5+	10+	25+	50+
Receptacle	60838-1	964-890●	3.00	2.73	2.55	2.45	2.32
Receptacle, multiple Housing	42238-2	964-906●	3.75	3.42	3.18	3.08	2.91
Receptacle, Single Housing	42282-2	964-918●	2.88	2.52	2.39	2.30	2.15
Tab	61316-1	964-920●	4.54	4.32	4.09	3.91	3.69
Tab, multiple Housing	42241-2	964-931●	3.55	3.41	3.23	3.07	2.89
Tab, single Housing	42565-2	964-943●	3.00	2.86	2.72	2.58	2.46

Tooling for 'Fastin-Faston'



- Ratchet Crimp Tool

209211

Mftrs. List No.	Order Code	Price Each
674655	964-955	350.04

SDE Die and Tooling options available see Page 1625

Positive Lock '250 Series'

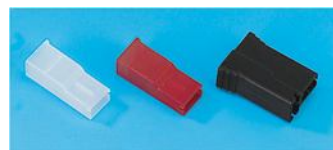


- Suitable for environments with strong vibration and mechanical strain
- Easy mating contact, good mechanical lock
- Receptacle has internal ramp design, engages with contact latch
- Housing available in three colours, natural, black and red

Housing	Polyamide 6.6 UL94V-2	Temperature	140°C
Contacts	Brass, tin plated		

209248

Housings



- Note: 1) 341300-9 for use with 341411 & 341412 only
 2) 172076-1 for use 170335-1 only
 3) 926522-1 mates with Fastin-Faston housing 180908
 4) 926330-1 mates with Fastin-Faston housing 180906
 5) 926646-1 mates with Fastin-Faston housing 163008

209250

Order Multiple=10				Price Each				
No. of Ways	Colour	Mftrs. List No.	Order Code	10+	50+	100+	500+	1K+
Housing - For Premier Range Receptacles								
1	Black	154719	148-076●	0.045	0.043	0.040	0.038	0.035
1	Natural	154719-1	148-106●	0.039	0.038	0.037	0.036	0.035
2	Black	926522-1	148-192●	0.100	0.097	0.095	0.092	0.089
Order Multiple=5				5+	50+	100+	500+	1K+
Housing - For Standard Range Receptacles								
Order Multiple=10				10+	50+	100+	500+	1K+
1	Black	341300-9	148-222●	0.045	0.042	0.038	0.035	0.030

Receptacles (Crimp Terminals)



Contact Type	Range	Wire Size (mm²)	Insulation Diameter (mm)	Mftrs. List No.	Order Code
Receptacle	Premier	0.2-0.7	2.4-3.2	341002-1	148-313
Receptacle	Premier	0.2-0.7	2.4-3.2	341002-6	148-337
Receptacle	Premier	2.5-4	3.6-4.3	341001-1	148-349
Receptacle	Premier	2.5-4	3.6-4.3	341001-6	148-350
Receptacle	Standard	0.5-1.5	2.1-2.9	341412-1	148-362
Receptacle	Standard	0.5-1.5	2.1-2.9	341412-2	148-374
Receptacle	Standard	1-2.5	2.6-3.6	341411-1	148-398
Receptacle	Standard	2.5-2.5	2.6-3.6	341411-2	148-404

209251



40,000 PRICES REDUCED

Order Multiple = 10

Material	Mfrs. List No.	Order Code	10+	100+	500+	1K+	5K+
Premier Range							
Brass	341002-1	148-313 ●	0.138	0.126	0.116	0.106	0.095
Brass	341002-6	148-337 ●	0.138	0.126	0.115	0.105	0.094
Brass	341001-1	148-349 ●	0.095	0.091	0.086	0.081	0.076
Brass	341001-6	148-350 ●	0.151	0.144	0.135	0.128	0.119
Standard Range							
Brass	341412-1	148-362 ●	0.092	0.085	0.076	0.068	0.060
Brass	341412-2	148-374 ●	0.092	0.085	0.076	0.068	0.060
Brass	341411-1	148-398 ●	0.070	0.059	0.058	0.057	0.045

Crimp Tools



209252

Wire Size (mm ²)	Mfrs. List No.	Order Code	Price Each 1+
Crimp Tool - Premier Range 0.7-4.0	525651	148-428	388.98

SDE Options and available Dies

Tool Options



360170



4132518

Tool - without dies	Mfrs. List No.	Order Code	Price Each 1+
Procrimper III	354940-1	360-170	61.05
PEW 12	9-1478240-0	413-2440	74.80

SDE Dies

SDE or Standard Die Envelope is an innovation from Tyco Electronics that provides cost effective flexibility through a common die outline.

414615

Product Type	Wire Size: mm - (AWG)	Mfrs. List No.	Order Code	Price Each 1+
PIDG & Plasti-grip	0.40 - 6.0 (22 - 10)	58423-1	360-326	83.27
HD20 & HDP-20	0.08 - 0.6 (28 - 20)	58448-3	360-259	89.90
HDP-22	0.08 - 0.4 (28 - 22)	90800-2	962-9505	93.29
Multimate	0.80 - 1.5 (28 - 16)	58495-2	360-200	97.54
Supraseal 1.5 series	0.50 - 1.0 (21 - 18)	58583-2	962-9637	93.29
Circular DIN 72585	1.00 - 2.5 (18 - 14)	58606-2	962-9629	215.90
PE Series - 4.2mm	0.15 - 0.4 (26 - 22)	91387-2	811-6300	378.82
PE Series - 4.2mm	0.40 - 1.0 (22 - 18)	91388-2	811-6318	215.90
AMP Modu	0.15 - 0.4 (26 - 22)	58641-2	962-9580	165.79
Mate-N-Lok 3.5mm / 0.14"	0.60 - 2.5 (20 - 14)	1752938-2	857-8230	153.95
Universal Mate-N-Lok	0.20 - 1.0 (24 - 18)	90548-2	962-9548	98.04
Universal Mate-N-Lok	0.60 - 2.5 (20 - 14)	58637-2	962-9599†	77.10
Universal Mate-N-Lok	0.60 - 2.5 (20 - 14)	90547-2	360-272†	89.65
Commercial Mate-N-Lok	0.20 - 1.0 (24 - 18)	90574-2	962-9530	103.26
Commercial Mate-N-Lok	0.60 - 2.5 (20 - 14)	90575-2	360-302	89.90
Mini Universal Mate-N-Lok & 0.15 - 0.4 (26 - 22)				
Mini-CPC		90758-2	962-9521	87.79
Mini Universal Mate-N-Lok & 0.40 - 1.0 (22 - 18)				
Mini-CPC		90759-2	421-3841	89.90
Mini Universal Mate-N-Lok & 0.60 - 1.5 (20 - 16)				
Mini-CPC		90760-2	962-9513	93.29
Micro MATE-N-LOK	0.05 - 0.6 (30 - 20)	91391-2	111-1472	104.02
Greenpar	RG58, 59, URM 70,			
	Belden 9907, BT 2002	9-1478242-0	413-2452	83.95
Greenpar	RG 174, 179, BT 3002	9-1478245-0	413-2476	89.46
Greenpar	RG18, 9, 213	9-1478246-0	413-2488	100.82
Greenpar	RG 174, 178	9-1478248-0	413-2506	84.95

† 9629599 = Insulation diameter 3.30mm (0.13") max

† 360272 = Insulation diameter 5.08mm (0.20") max

FREE technical support

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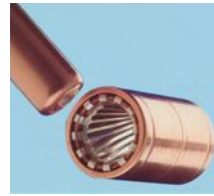
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Live technical chat at
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The RADSOK® Design

Amphenol



RADSOK® Contact



Twisted Hyperbolic Grid

The RADSOK (RADial SOcKet) is a high amperage, low insertion force electrical terminal. RADSOK technology is based upon a stamped and formed flat grid, uniquely twisted into a hyperbolic geometry to provide robust, high density contact to the mating pin contact.

The RADSOK utilizes the tensile strength properties of the flat, high conductivity grid. This provides the high normal forces required for conductivity while also providing large conductive surface area. Low voltage drop and low temperature rise are also achieved while maintaining low insertion forces.

451786

AMPHE-PD RADSOK Technology

Amphenol



The Amphe-PD™ features RADSOK® technology which is high in reliability and amperage and low insertion force. The Amphe-PD connector series has the ability to connect wires and busbars as well as circuit boards which allows the Amphe-PD to be used in a wide variety of applications.

- Uses RADSOK Technology
- Integrated latching Mechanism
- Low insertion force
- Compression set screw termination
- Audible and tactile locking
- TUV "touch proof" V0 rating

Current Rating	CSA: 55A, UL:69A	Shell	Moulded Thermoplastic
Wire Size	6AWG	Flammability Rating	UL94V-0
Contact Plating			

451782

No. of Ways	Mfr. No.	Order Code	1+	10+	25+	100+
Plug, 3.6 mm RADSOK (6AWG)						
2	10-638974-000	128-1467 ●	7.95	7.47	7.12	6.82
Receptacle, Busbar						
2	10-638975-000	128-1468 ●	6.93	6.51	6.29	6.00
Receptacle, Crimp						
2	10-638976-000	128-1469 ●	7.80	7.23	6.99	6.74
Receptacle, PCB						
2	10-638977-000	128-1470 ●	6.63	6.18	5.92	5.66

Trident - 'Snap Together' Series



Engineered for life™



Low installation cost connectors for signal and power internal wiring applications.

Rated at up to 13A and 250V ac they provide easy assembly and removal of circuit boards, fans, motors, transformers etc. Comprising free plugs, panel and PCB mounting receptacles plus a wide range of crimp and solder contacts, the system offers a versatile, reliable and cost effective interconnection solution.

- Integral retaining latches and polarisation
- Plug housings accept both pin and socket contacts
- UL and CSA recognised

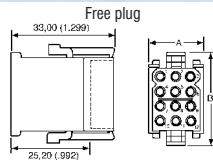
Operating voltage	250V ac
Maximum current	13A
Temperature range	-55°C to 105°C (free plug, panel receptacle) -40°C to 105°C (PCB receptacle)
Insulation resistance	5000MΩ
Housing	Black Nylon, UL94V-0

230649

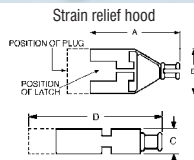


Rectangular Multipole - continued

Free Plugs and Strain Relief Hoods



Free plug



Strain relief hood

- Free plug accepts pin or socket contacts
- Mates with panel or PCB mounting receptacles
- Contacts to be ordered separately
- Hood provides strain relief and wire protection
- Secure with cable tie (not supplied)

No. of Ways	Dimensions		No. of Ways	Dimensions	
	A	B		A	B
2	15.5	17.0	12	19.0	32.0
3	19.0	17.0	24	24.0	42.0
4	24.0	17.0	36	49.5	32.0
6	19.0	22.0			

No. of Ways	Wire Bundle Dia.	Dimensions			
		A	B	C	D
2	2.3mm - 8.3mm	46.2	16.1	11	56.5
3	2.3mm - 8.3mm	46.2	18.6	11	56.5
4	3.0mm - 10.0mm	46.2	23.7	11	56.5
6	2.3mm - 8.3mm	46.2	19	16.4	56.5
12	3.0mm - 10.0mm	45.5	19	26.4	55.8
24	4.6mm - 12.7mm	51	24	36.8	60.3
36	7.0mm - 15.9mm	57.5	49.5	26.4	68

Mfrs. List No.	TST02PA00=118-8205	TST24PA00=118-8210	TST06AH00=118-8217
	TST03PA00=118-8206	TST36PA00=118-8212	TST12AH00=118-8218
	TST04PA00=118-8207	TST02AH00=118-8213	TST24AH00=118-8219
	TST06PA00=118-8208	TST03AH00=118-8214	TST36AH00=118-8220
	TST12PA00=118-8209	TST04AH00=118-8216	

FOR SUITABLE CABLE TIE SEE CABLE ACCESSORIES SECTION

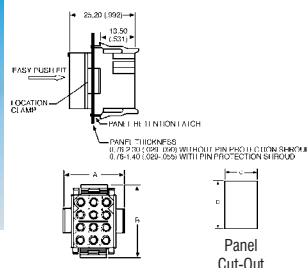
230658

No. of Ways	Order Code	1+	25+	Price Each	50+	100+	250+
Free Plug - Accepts Pin or Socket Contacts							
2	118-8205●	0.42	0.38	0.34	0.33	0.27	
3	118-8206●	0.32	0.27	0.25	0.22	0.20	
4	118-8207●	0.50	0.44	0.41	0.38	0.34	
6	118-8208●	0.35	0.32	0.27	0.26	0.22	
12	118-8209●	0.44	0.39	0.35	0.34	0.29	
24	118-8210●	0.70	0.63	0.57	0.54	0.47	
36	118-8212●	1.23	1.07	0.97	0.90	0.80	
Strain Relief Hood							
2	118-8213●	0.54	0.46	0.44	0.41	0.37	
3	118-8214●	0.52	0.44	0.41	0.39	0.35	
4	118-8216●	0.56	0.49	0.46	0.43	0.39	
6	118-8217●	0.69	0.59	0.55	0.52	0.46	
12	118-8218●	0.68	0.58	0.55	0.50	0.46	
24	118-8219●	1.05	0.90	0.83	0.79	0.69	
36	118-8220●	1.05	0.90	0.83	0.79	0.69	

Panel Receptacles



Receptacle



Panel Cut-Out

- Receptacle accepts pin or socket contacts
- Mates with free plugs
- Contacts to be ordered separately
- Can be fitted onto panels up to 1.4mm thick

No. of Ways	Dimensions			
	A	B	C	D
2	19.0	14.0	±0.13	±0.13
3	24.0	14.0	11.5	11.6
4	29.0	13.5	16.5	11.6
6	24.0	19.0	21.7	16.7
12	24.0	29.0	16.5	26.7
24	29.0	39.0	16.7	36.9
36	54.2	29.0	11.8	26.4

Mfrs. List No.	TST04RA00=118-8223	TST24RA00=118-8226
	TST06RA00=118-8224	TST36RA00=118-8228
	TST12RA00=118-8225	

230666

No. of Ways	Order Code	1 +	25 +	50 +	100 +	250 +
Panel Receptacle - Accepts Pin or Socket Contacts						
2	118-8221●	0.33	0.31	0.27	0.25	0.22
3	118-8222●	0.34	0.31	0.28	0.25	0.22
4	118-8223●	0.43	0.38	0.34	0.33	0.29
6	118-8224●	0.35	0.32	0.27	0.26	0.22
12	118-8225●	0.43	0.38	0.34	0.33	0.29
24	118-8226●	0.67	0.58	0.55	0.52	0.45
36	118-8228●	0.86	0.74	0.68	0.63	0.55

PCB Connectors with Pin or Socket Contacts



Socket contacts

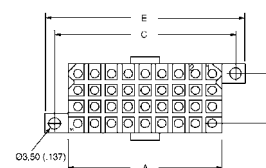


Fig. 1

- Mate with free plugs
- Integral moulded mounting ears
- PCB grid spacing 5.08mm (0.2")
- Recommended PCB hole dia. 1.15mm
- Available in formed or machined contact options

Fig. 2

No. of Ways	Figure	Dimensions				
		A	B	C	D	E
2	2	16.20	±0.08	±0.08	11.0	26.0
6	2	16.20	19.12	10.23	11.0	26.0
12	2	16.20	29.30	10.26	21.2	35.2
24	2	21.30	39.37	15.32	31.3	45.6
36	1	46.60	15.24	54.64	21.2	60.5

TST12RB05T=118-6671	TST06RB01T=118-6676	TST24RB06T=118-6683	TST06RB02T=118-6688
TST24RB05T=118-6672	TST12RB01T=118-6677	TST36RB06T=118-6684	TST12RB02T=118-6689
TST36RB05T=118-6673	TST24RB01T=118-6678	TST02RB02T=118-6685	TST24RB02T=118-6690
TST02RB01T=118-6674	TST06RB06T=118-6679	TST03RB02T=118-6686	TST36RB02T=118-6691
TST03RB01T=118-6675	TST12RB06T=118-6680	TST04RB02T=118-6687	

230667

No. of Ways	Order Code	Price Each				
		1 +	25 +	50 +	100 +	250 +
Pin Contacts, Formed, Tin Plated						
12	118-6671●	2.15	1.87	1.71	1.60	1.41
24	118-6672●	3.73	3.22	2.96	2.74	2.46
36	118-6673●	3.93	3.41	3.12	2.91	2.56
Pin Contacts, Machined, Tin Plated						
2	118-6674●	0.68	0.59	0.55	0.52	0.45
3	118-6675●	0.68	0.59	0.55	0.52	0.45
6	118-6676●	1.26	1.11	0.99	0.91	0.82
12	118-6677●	2.52	2.18	2.01	1.87	1.65
24	118-6678●	5.00	4.35	3.98	3.73	3.28
Socket Contacts, Formed, Tin Plated						
6	118-6679●	1.98	1.72	1.58	1.45	1.32
12	118-6680●	2.84	2.47	2.25	2.08	1.86
24	118-6683●	4.17	3.65	3.32	3.09	2.72
36	118-6684●	5.39	4.70	4.29	3.99	3.55
Socket Contacts, Machined, Tin Plated						
2	118-6685●	0.83	0.72	0.67	0.63	0.56
3	118-6686●	0.83	0.72	0.67	0.63	0.56
4	118-6687●	1.26	1.11	0.99	0.91	0.82
6	118-6688●	1.98	1.73	1.58	1.47	1.32
12	118-6689●	3.88	3.39	3.09	2.88	2.54
24	118-6690●	6.35	5.54	5.07	4.71	4.17
36	118-6691●	8.76	7.63	6.97	6.49	5.76

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Trident - 'Snap Together' - Slimline' Series



Low profile connectors for circuit board wiring. Rated at up to 10A and 250V ac the precision machined contacts are ideal for power and signal applications. Comprising free plugs and PCB mounting pin headers in straight or 90° mounting options.

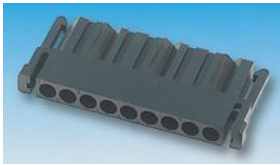
- Less than 10mm width on PCB
- Plugs have integral moulded quick connect/disconnect retaining latches
- Plug housings accept formed or machined socket contacts
- PCB headers pre-loaded with straight or 90° tin plated machined pin contacts
- UL and CSA recognised

Operating voltage 250V ac
Maximum current 10A
Temperature range -40°C to 105°C

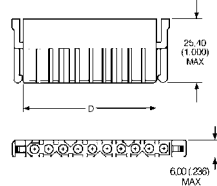
Insulation resistance 5000MΩ
Housing Nylon, UL94V-0

230670

Free Plugs



Free plug



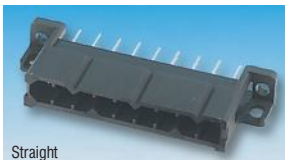
- Accepts socket contacts
- Contacts to be ordered separately

Mfrs. List No.	No. of Ways	Dimensions
TST03PF00=118-8229	3	16.1
TST04PF00=118-8230	4	21.2
TST06PF00=118-8231	6	31.4
TST09PF00=118-8232	9	46.6
TST10PF00=118-8233	10	51.6

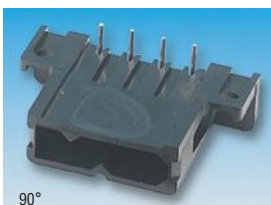
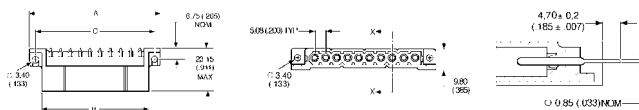
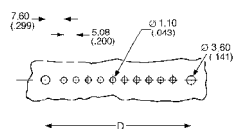
230672

No. of Ways	Order Code	1+	25+	50+	100+	250+
Free Plug - Accepts Socket Contacts						
3	118-8229●	0.53	0.45	0.43	0.41	0.35
4	118-8230●	0.58	0.52	0.48	0.44	0.40
6	118-8231●	0.86	0.75	0.68	0.64	0.56
9	118-8232●	1.24	1.07	0.97	0.90	0.80
10	118-8233●	1.22	1.08	0.97	0.90	0.80

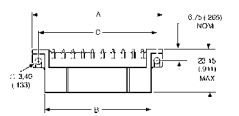
Pin Headers



Straight



90°



Dimensions (mm)

No. of Ways	A	B	C	D
3	31.4	19.4	25.5	25.5
4	36.5	14.5	30.6	30.6
6	46.7	34.7	40.7	40.7
9	61.9	49.9	56.0	56.0
10	67.0	55.0	61.1	51.6

- Accept socket contacts
- Contacts to be ordered separately

Mfrs. List No.	TST03RD01T=118-6692	TST09RD01T=118-6696	TST04RE01T=118-6699
	TST04RD01T=118-6694	TST10RD01T=118-6697	TST06RE01T=118-6701
	TST06RD01T=118-6695	TST03RE01T=118-6698	TST09RE01T=118-6702

230675



No. of Ways	Order Code	1+	25+	50+	100+	250+
Straight Header						
3	118-6692●	1.35	1.18	1.07	1.00	0.88
4	118-6694●	1.36	1.20	1.09	1.00	0.89
6	118-6695●	1.87	1.63	1.50	1.39	1.25
9	118-6696●	2.62	2.28	2.12	1.97	1.73
10	118-6697●	3.17	2.77	2.53	2.38	2.08
90° Header						
3	118-6698●	1.98	1.72	1.58	1.45	1.32
4	118-6699●	2.20	1.93	1.75	1.63	1.45
6	118-6701●	3.10	2.70	2.48	2.29	2.04
9	118-6702●	4.07	3.52	3.22	2.99	2.64

Trident Connector Crimp Contacts
Stamped and Formed

Socket contact

Pin contact

- Two-piece stamped and formed construction
- Tin or gold flash plating options
- 13A standard brass material
- Fit all Trident connectors

Current rating 13
Contact resistance 5mΩ
Body material Brass
Mating cycles 200

Mfrs. List Nos:	T2P24MC1LT=118-8299	T2P20FC1LT=118-8304	T2P14MC1LZ=118-8294
	T2P20MC1LT=118-8300	T2P16FC1LT=118-8305	T2P24FC1LZ=118-8295
	T2P16MC1LT=118-8301	T2P14FC1LT=118-8307	T2P20FC1LZ=118-8296
	T2P14MC1LT=118-8302	T2P20MC1LZ=118-8297	T2P16FC1LZ=118-8297
	T2P24FC1LT=118-8303	T2P16MC1LZ=118-8293	T2P14FC1LZ=118-8298

231019

Order Multiple=10		Price Each				
Wire Size	Order Code	10+	50+	100+	500+	1K+
Standard Tin Plated Pins						
26 - 24AWG	118-8299●	0.171	0.147	0.139	0.130	0.115
22 - 20AWG	118-8300●	0.174	0.149	0.141	0.132	0.117
18 - 16AWG	118-8301●	0.176	0.151	0.143	0.133	0.118
16 - 14AWG	118-8302●	0.174	0.149	0.141	0.132	0.117
Standard Tin Plated Sockets						
26 - 24AWG	118-8303●	0.161	0.137	0.130	0.117	0.103
22 - 20AWG	118-8304●	0.161	0.137	0.130	0.117	0.103
18 - 16AWG	118-8305●	0.161	0.137	0.130	0.117	0.103
16 - 14AWG	118-8307●	0.161	0.137	0.130	0.117	0.103
Standard Gold Plated Pins						
26 - 24AWG	118-8292●	0.174	0.149	0.141	0.132	0.117
22 - 20AWG	118-6767●	0.174	0.149	0.141	0.132	0.117
18 - 16AWG	118-8293●	0.174	0.149	0.141	0.132	0.117
16 - 14AWG	118-8294●	0.174	0.149	0.141	0.132	0.117
Standard Gold Plated Sockets						
26 - 24AWG	118-8295●	0.174	0.149	0.141	0.132	0.117
22 - 20AWG	118-8296●	0.174	0.149	0.141	0.132	0.117
18 - 16AWG	118-8297●	0.174	0.149	0.141	0.132	0.117
16 - 14AWG	118-8298●	0.174	0.149	0.141	0.132	0.117

Trident Connector Crimp Contacts
Solid Machined

Socket contact

Pin contact

- Gold plated one-piece machined construction
- 13A standard brass material
- High performance and durability
- Fit all Trident connectors

Current rating 13
Contact resistance 5mΩ
Body material Brass
Mating cycles 500

Mfrs. List Nos:	T3P26MC1LX=118-6768	T3P16MC1LX=118-6773	T3P22FC1LX=118-6776
	T3P24MC1LX=118-6769	T3P26FC1LX=118-6774	T3P20FC1LX=118-6777
	T3P22MC1LX=118-6770	T3P24FC1LX=118-6775	T3P16FC1LX=118-6778
	T3P20MC1LX=118-6771		

Rectangular Multipole - continued

Trident Connector Crimp Contacts - continued

Solid Machined - continued

231029

Order Multiple=10		Price Each					
Wire Size	Colour	Order Code	10+	50+	100+	500+	1K+
Pins							
26AWG	Black	118-6768●	0.290	0.250	0.220	0.200	0.195
24AWG	Blue	118-6769●	0.290	0.250	0.220	0.200	0.195
22AWG	Red	118-6770●	0.290	0.250	0.220	0.200	0.195
20AWG	Green	118-6771●	0.290	0.250	0.220	0.200	0.195
AWG16	Black	118-6773●	0.290	0.250	0.220	0.200	0.195
Sockets							
26AWG	Black	118-6774●	0.290	0.250	0.220	0.200	0.195
24AWG	Blue	118-6775●	0.290	0.250	0.220	0.200	0.195
22AWG	Red	118-6776●	0.290	0.250	0.220	0.200	0.195
20AWG	Green	118-6777●	0.290	0.250	0.220	0.200	0.195
16AWG	Black	118-6778●	0.290	0.250	0.220	0.200	0.195

Trident Connector Solder Cup Contacts



- Tin or gold flash plating options
- 13A standard brass material
- Ideal for low volume and prototype applications
- Fit all Trident connectors

Current rating	13	Body material	Brass
Contact resistance	5mohm	Mating cycles	500
Mfrs. List Nos:	T3P16MS1LT=118-6780 T3P16FS1LT=118-6779	T3P16FS1LY=118-6781 T3P16MS1LY=118-6782	

231031

Order Multiple=10		Price Each					
Order Code	10+	50+	100+	500+	1K+		
Tin Plated Pins							
118-6779●	0.66	0.58	0.54	0.50	0.45		
Tin Plated Sockets							
118-6780●	0.56	0.49	0.46	0.43	0.38		
Gold Plated Pins							
118-6782●	0.67	0.58	0.55	0.52	0.45		
Gold Plated Sockets							
118-6781●	0.79	0.68	0.63	0.58	0.53		

Trident TNM Connector Power Contacts



- 30A crimp power contacts for TNM combined signal and power connectors
- Tin plated copper alloy material

Current rating	13	Body material	Copper Alloy
Contact resistance	2.5mΩ	Mating cycles	200
Mfrs. List Nos:	192990-9610 192990-9640	118-8308 118-8309	192990-9620 192990-9650 118-8310 118-8311

231033

Order Multiple=10		Price Each					
Wire Size	Order Code	10+	50+	100+	500+	1K+	
Pins							
16 - 14AWG	118-8308●	0.193	0.178	0.159	0.152	0.142	
14 - 12AWG	118-8310●	0.240	0.198	0.197	0.181	0.173	
Sockets							
16 - 14AWG	118-8309●	0.124	0.114	0.105	0.095	0.087	
14 - 12AWG	118-8311●	0.150	0.126	0.117	0.104	0.091	

Trident Connector Tooling



- Ratchet crimp tools for stamped and formed signal and power contacts
- Hand crimp tool for machined contacts
- Machined contact tool requires calibrated locator, supplied separately

Mfrs. List Nos:	112108-0013 112108-0014 112108-0012	380-6893 380-6900 380-6923	192990-2050 192990-7600	380-6935 380-6947 192900-0176	192922-1450 380-6959 380-6960
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231035

Contact Type	Wire Size	Order Code	Price Each
			1+
Ratchet Crimp Tool - Stamped Contacts + 30A Power Contacts			
Power	14-16 AWG	380-6893	104.23
Signal	16-18,20-22,24-26 AWG	380-6900	136.34
Signal	14-16, 18-20 AWG	380-6923	105.79
Hand Crimp Tool - Machined Contacts - All Sizes			
Crimp Tool		890-376	254.02
Locator (calibrated)		380-6947	141.70
Extractor Tool			
Signal		380-6959	4.03
Power		380-6960	10.94

'Qikmate' Crimp 2 to 36 Way 13A



Hood for free plug

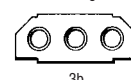


Free plug Chassis socket

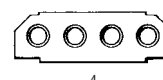
Contact configurations



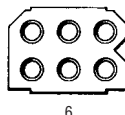
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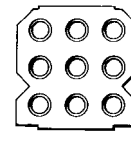
3b



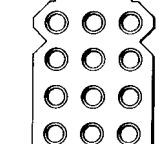
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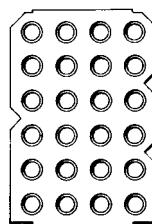
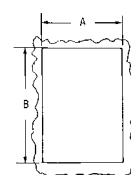
6



9



12

24 way=4 x 6
36 way=4 x 9Panel Cut-out
Panel thickness=0.8-2.3

A x B	Max Cable dia
2 way 11.4x11.6	8.4
3 way 16.5x11.6	8.4
4 way 21.7x11.6	9.9
6 way 16.5x16.7	8.1
9 way 16.5x21.6	9.1
12 way 16.7x26.7	9.1
24 way 21.7x36.9	12.7
36 way 47.2x26.7	15.7

Rectangular plastic shells offering a range from 2 to 36 way, available in chassis or free housings. The pin housings can be fitted with a hood for added safety. Strain relief is provided via a cable tie (not supplied).

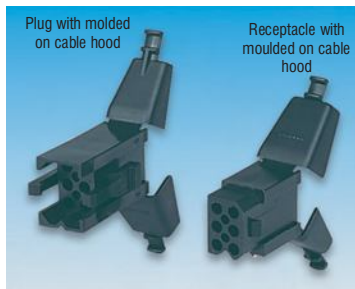
Housing Polyamide 6,6 Temperature range -55°C to +105°C

Order Contacts Separately - SEE PAGE 1629

219680

No. of Ways	Mfrs. List No.	Order Code	10+	50+	100+	500+	1K+
Free Plug - Accepts Pin or Socket Contacts							
2	SMS2P1	365-2105●	0.54	0.49	0.46	0.44	0.37
3	SMS3P1	365-2117●	0.43	0.39	0.36	0.34	0.32
4	SMS4P1	365-2129●	0.68	0.55	0.47	0.42	0.37
6	SMS6P1	365-2130●	0.84	0.75	0.62	0.57	0.51
9	SMS9P1	365-2142●	1.39	1.28	1.17	1.09	1.02
12	SMS12P1	365-2154●	0.65	0.53	0.46	0.45	0.36
24	SMS24P1	365-2166●	0.82	0.79	0.75	0.71	0.60
36	SMS36P1	365-2178●	1.65	1.48	1.29	1.17	1.06
Chassis Socket - Accepts Pin or Socket Contacts							
2	SMS2R1	365-2180●	0.44	0.43	0.37	0.35	0.32
3	SMS3R1	365-2191●	0.46	0.44	0.39	0.36	0.34
4	SMS4R1	365-2208●	0.55	0.53	0.49	0.47	0.43
6	SMS6R1	365-2210●	0.53	0.48	0.46	0.44	0.37
9	SMS9R1	365-2221●	0.73	0.70	0.64	0.55	0.51
12	SMS12R1	365-2233●	0.55	0.53	0.44	0.39	0.35
24	SMS24R1	365-2245●	0.91	0.84	0.78	0.73	0.66
36	SMS36R1	365-2257●	1.48	1.23	1.05	0.96	0.88
Hoods for Free Plugs - (Supplied as 20 half mouldings per pack)							
6	SMS6H1	365-2294●	0.78	0.76	0.70	0.62	0.53
9	SMS9H1	365-2300●	1.08	1.02	0.94	0.87	0.77
12	SMS12H1	365-2312●	0.78	0.71	0.65	0.61	0.54
24	SMS24H1	365-2324●	1.13	1.04	0.96	0.90	0.81
36	SMS36H1	365-2336●	1.17	1.11	1.00	0.91	0.82

Qikmate with Moulded on Hood



- Moulded integral hood, reduces assembly time
- Receptable and plug housing have hoods
- Large cable exit, allows different cable diameters in some housing

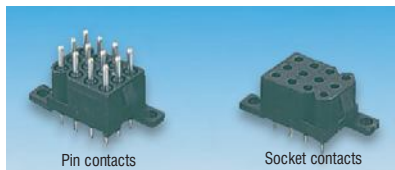
Housing Black Polyamide 6,6
Temperature range -55°C to +105°C

Mfrs. List No. Pin housing SHSxxPDHI, Socket housing SMSxxRDHI, where xx=no. of ways

219709

No. of Ways	Order Code	1+	10+	Price Each	100+	500+	1K+
Free Plug - Accepts Pin or Socket Contacts							
2	535-813●	0.87	0.72	0.63	0.54	0.49	
3	535-825●	0.83	0.68	0.59	0.52	0.47	
4	535-837●	1.47	0.79	0.71	0.61	0.55	
6	535-849●	1.05	0.88	0.78	0.72	0.64	
9	485-7987●	1.75	1.45	1.22	1.13	1.03	
12	535-850●	1.90	1.17	1.00	0.90	0.82	
24	535-862●	2.29	1.51	1.35	1.24	1.14	
36	535-874●	2.77	2.18	1.93	1.73	1.60	
Free Socket - Accepts Pin or Socket Contacts							
2	537-822●	1.57	1.30	1.12	1.00	0.89	
3	537-834●	1.49	1.23	1.07	0.94	0.85	
4	537-846●	1.26	1.05	0.91	0.85	0.77	
6	537-858●	1.30	1.10	0.98	0.88	0.81	
9	485-7999●	1.92	1.54	1.39	1.27	1.12	
12	537-860●	2.06	1.70	1.49	1.32	1.18	
24	537-871●	2.83	2.34	2.03	1.78	1.63	
36	537-883●	3.03	2.52	2.17	1.92	1.72	

PCB Mounting (Including Pins or Sockets)



The PCB mounting versions mount directly on 0.1" pitch PCB (pin spacing=5.08) and have mounting ears for better stability. Available in pin and socket contact options.

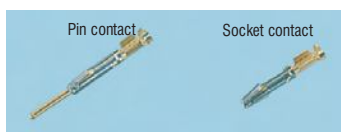
Current rating 5A
Contact resistance 6mΩ max
Housing Black Polyamide 6,6
Plating 3.8μ Tin
Temperature rating -55°C to +105°C

Mfrs. List No. Pin contacts = SMS xxE4TR29
Socket contacts = SMS xxRE3TR29 where xx=No of ways

209983

No. of Ways	Order Code	1+	25+	Price Each	100+	250+	500+
Pin Contacts							
2	240-126●	1.39	1.31	1.14	1.12	1.02	
3	240-138●	1.32	1.21	1.12	1.05	0.99	
4	240-140●	1.14	1.10	1.01	0.95	0.85	
6	240-151●	1.44	1.34	1.22	1.17	1.04	
9	240-163●	2.32	1.98	1.73	1.60	1.45	
12	240-175●	2.47	2.29	2.07	1.96	1.80	
24	240-187●	4.24	3.94	3.56	3.24	2.92	
36	210-675●	4.54	4.27	3.89	3.65	3.31	
Socket Contacts							
2	240-199●	1.39	1.30	1.16	1.12	1.02	
3	240-205●	1.44	1.33	1.24	1.20	1.08	
4	240-217●	1.50	1.40	1.21	1.17	1.07	
6	240-229●	2.24	2.16	1.99	1.89	1.69	
12	240-230●	2.68	2.25	2.07	1.96	1.80	
24	240-242●	3.43	3.17	2.91	2.74	2.50	
36	210-687●	5.14	4.78	4.39	4.11	3.75	

Metalok Bantam, Qikmate, UTG, UTO & UTS Contacts



The contacts are two part. The body is made of a highly conductive copper alloy with a stainless steel outer spring in either tin or gold plated options. Gold plated contacts do not oxidise and are therefore more suitable for use in corrosive atmospheres.

Contact rating 13A @ 750Vrms
Insulation resistance 6mΩ max
Contacts Copper Alloy, Gold 1.5μ
Copper Alloy, Gold 0.25μ, over nickel 3μ

This also leads to lower contact pressure and are therefore suitable for larger way connectors. Both fit the 'Metalok Bantam', Qikmate', UTG & UTO housings.

Mfrs List No. SM16ML11TK6 = 365-1927, SM24ML1TK6 = 365-1940, SC20ML1TK6 = 365-1964, SM16ML1D70 = 365-1988,

SM24ML1D70 = 365-2087,
SC20ML1D70 = 365-2014,
SM20ML1TK6 = 365-1939
SC16ML11TK6 = 365-1952

SC24ML1TK6 = 365-1976
SM20ML1D70 = 365-1990
SC16ML1D70 = 365-2002
SC24ML1D70 = 365-2099

209358

Wire Size	Order Code	25+	100+	Price Each	500+	1K+
Tin Plated Pins						
18—16AWG, 0.8—1.5mm ²	365-1927●	0.200	0.176	0.154	0.134	
22—20AWG, 0.35—0.5mm ²	365-1939●	0.310	0.200	0.159	0.146	
26—24AWG, 0.13—0.25mm ²	365-1940●	0.310	0.200	0.159	0.146	
Tin Plated Sockets						
18—16AWG, 0.8—1.5mm ²	365-1952●	0.200	0.176	0.154	0.133	
22—20AWG, 0.35—0.5mm ²	365-1964●	0.350	0.270	0.210	0.186	
26—24AWG, 0.13—0.25mm ²	365-1976●	0.360	0.270	0.210	0.186	
Gold Plated Pins						
18—16AWG, 0.8—1.5mm ²	365-1988●	0.199	0.184	0.155	0.134	
22—20AWG, 0.35—0.5mm ²	365-1990●	0.195	0.181	0.151	0.130	
26—24AWG, 0.13—0.25mm ²	365-2087●	0.195	0.181	0.151	0.130	
Gold Plated Sockets						
18—16AWG, 0.8—1.5mm ²	365-2002●	0.200	0.192	0.161	0.142	
22—20AWG, 0.35—0.5mm ²	365-2014●	0.220	0.198	0.169	0.149	
26—24AWG, 0.13—0.25mm ²	365-2099●	0.200	0.190	0.158	0.141	

Solid Machined Contacts



Socket contact



Pin contact

Gold plated solid machined crimp contacts suitable for heavy duty and high performance applications. The snap-in pins and sockets are colour coded for different wire sizes.

Contact rating 13A @ 750Vrms
Contact resistance 3mΩ max.
Contacts Copper Alloy, 0.4μ Gold plated

Mfrs. List No. RM16M23K = 365-2026, RM20M12K = 365-2038, RM24M9K = 365-2040
RC16M23K = 365-2051, RC20M12K = 365-2063, RC24M9K = 365-2075

209359

Wire size	Order Code	25+	50+	Price Each	250+	1K+
Pins						
20—16AWG, 0.52—1.5mm ²	365-2026●	0.33	0.31	0.28	0.27	
22—20AWG, 0.32—0.52mm ²	365-2038●	0.33	0.31	0.28	0.27	
26—24AWG, 0.13—0.2mm ²	365-2040●	0.32	0.30	0.27	0.26	
Sockets						
20—16AWG, 0.52—1.5mm ²	365-2051●	0.39	0.38	0.31	0.29	
22—20AWG, 0.32—0.52mm ²	365-2063●	0.38	0.37	0.31	0.29	
26—24AWG, 0.13—0.2mm ²	365-2075●	0.39	0.38	0.32	0.30	

Sub-Miniature Coaxial Contacts

Coaxial pins and sockets are supplied in four piece parts, so that the inner and outer conductors can be crimped individually. Suitable for use with RG178 cable, Order Code 149-071.

Mfrs. List No. RMDXX10D28 = 105-953, RCDXX10D28 = 105-954

219770

Coaxial Kit	Order Code	1+	100+	Price Each	500+	1K+
Male	105-953●	6.38	4.32	3.89	3.45	
Female	105-954●	4.64	3.17	2.81	2.49	

Tooling



Two high quality metal ratchet hand crimp tools. The machined and coaxial contact crimp tool requires a positioner for each contact. Coaxial contacts require both an inner and outer positioner.

Crimp Tool Settings

Coaxial Contact		Machined Contact				
Inner	Outer	16AWG	20AWG	22AWG	24AWG	26AWG
1	8	8	6/7	5/7	6	5

Mfrs. List No. Y16SCM2 = 105-497, MH860 = 105-992, MH MH86-164G = 151-779,
MH MH86-166 = 105-993, MH MH86-167 = 105-994, RX2025GE1 = 105-498



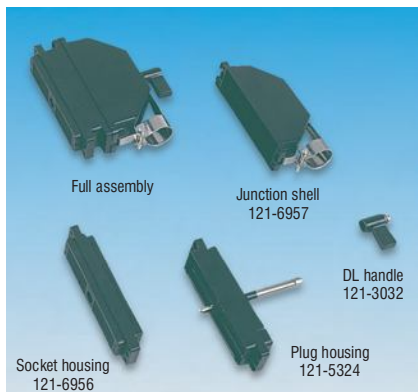
Rectangular Multipole - continued

Tooling - continued

209361

	Order Code	Price Each
Crimp Tools		
Two piece contact	105-497	273.53
Machined & coaxial contacts	105-992	346.99
Positioners		
Machined contact	151-779	64.04
Coaxial, inner	105-993	60.79
Coaxial, outer	105-994	60.79
Extraction Tool		
For all contacts	105-498	36.14

'DL' Zero Insertion Force Crimp 5A



Filling the need in test, computer and peripheral equipment field for low cost high performance multiple wire power and signal connection. Connection engagement force is zero, a quarter turn of the actuating shaft mates all the contacts at once with a wiping action, whilst also physically locking the connector halves together.

Contact rating	5A max	Insulation resistance	>5000MΩ
Contact resistance	15mΩ max.	Dielectric withstanding voltage	1200V ac
Contact material	Copper Alloy plated gold over nickel	Max temperature	+70°C

Mfrs. List No.	DL1156P = 121-5324, DL296R = 121-3029, 204-0016-000 = 121-3032, DL1156R = 121-6956,	DL360P = 121-3030, DL1J/S = 121-6957 DL296P = 121-3028	DL360R = 121-3031 DL2J/S = 121-3033 DL3J/S = 121-3034
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208984

	Order Code	1+	10+	25+	50+	100+	250+
60 Way							
Plug	121-3030●	44.90	33.94	31.20	24.36	21.02	18.81
Socket	121-3031●	9.57	7.25	6.65	5.19	4.51	3.87
Shell kit	121-3034●	13.56	10.16	9.31	7.28	6.11	5.35
96 Way							
Plug	121-3028●	41.52	38.88	38.10	34.72	32.65	29.97
Socket	121-3029●	7.02	6.63	6.48	5.85	5.51	4.85
Shell kit	121-3033●	10.79	10.10	9.84	8.90	8.13	7.30
156 Way							
Plug	121-5324●	64.30	60.77	57.37	51.40	48.58	45.89
Socket	121-6956●	15.71	14.85	14.02	13.20	12.44	11.30
Shell kit	121-6957●	13.51	12.63	11.93	10.69	9.74	8.97
Actuating handle	121-3032●	3.27	3.08	3.03	2.73	2.57	2.25

'DL' Contacts and Polarising Kits



Polarising kits
(Note: 121-3035 is not suitable for 60 way connectors)

208985

	Order Code	1+	Price Per Pack 5+	10+	25+
Crimp Contacts Pack of 100					
24 to 26 AWG	121-3036●	25.14	23.81	21.73	21.30
28 to 32 AWG	118-6667●	32.02	29.82	28.52	22.77
Polarising Kits					
Centre mounting	121-3035●	8.66	7.66	7.19	6.38
Corner mounting	121-5642●	8.83	7.96	7.76	7.36

Tooling for 'DL' Connectors



Mfrs. List No. CHT-DLT=152-054, CCT-DLT1=152-055, CET-DL10=140-983

208986

	Order Code	1+	Price Each 5+	10+
Crimp Tools				
20 to 26 AWG	152-054	271.11	258.81	253.62
28 to 32 AWG	152-055	297.90	283.88	278.22
Extraction Tool	140-983	18.80	17.12	16.78

'DLM' Metal Zero Insertion Force



- Fully intermatable with 'DL' Series
- Shield-locking mechanism ensures EMI/RFI shield for mated connectors
- PCB receptacle is fully loaded with contacts
- Junction shells offer straight or 90° cable entry
- 50 gold 'bump to flat' crimps are mandatory for signals below 100 milliamps
- Crimps suitable for dry circuit low current applications

Junction shells Die cast aluminium, nickel plated Receptacle contacts have flat
Crimp contacts Plug side contacts have bump

209284

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+
Metal Shell Plugs						
60	127050-0220	121-3037●	82.37	75.78	72.48	69.33
96	127050-0212	121-3038●	64.92	59.73	57.13	54.64
156	127050-0204	121-3041●	82.37	75.78	72.48	69.33
260	127050-0109	121-3042●	166.96	153.61	146.92	140.53
360	127050-0034	121-3043●	194.03	143.58	123.90	115.49
Metal Shell Receptacle						
60	127050-0224	121-3044●	26.36	24.27	23.20	22.19
96	127050-0216	121-3045●	25.22	23.20	22.20	20.92
156	127050-0208	121-3046●	32.13	29.57	28.28	27.04
260	127050-0110	121-3047●	81.29	74.81	71.55	68.44
360	127050-0045	121-3048●	107.23	98.67	94.34	90.21
PCB Metal Shell Receptacle						
96	112137-0000	121-3049●	90.72	67.14	57.94	54.00
156	112135-0000	121-3050●	135.88	100.56	86.77	80.88
Backshell Kit						
60	249-4518-000	121-3051●	43.74	40.24	38.49	36.82
96	249-4517-000	121-3053●	34.47	31.71	30.34	29.02
156	249-4520-000	132-6194●	43.19	39.83	38.17	36.10
260	249-4501-000	121-3055●	42.75	39.32	37.63	35.49
Handle						
DL5/DLM5		121-3056●	3.75	2.91	2.51	2.40
Bump & Flat' contacts for DL/DLM						
24-26AWG for plug		121-3057●	0.31	0.25	0.21	0.20
20-22AWG for plug		121-5646●	0.38	0.32	0.26	0.25
24-26AWG for receptacle		121-3058●	0.40	0.35	0.29	0.27
20-22AWG for receptacle		121-5647●	0.38	0.32	0.26	0.25

'M' Series

Cable Connector Kits



- Supplied as kit
- Meets requirements of ISO2593 for CCITT V.35 interfacing
- Approvals UL & CSA

Kit contains:
1 Housing, 1 One piece shield, 2 Jackscrew, 1 Strain relief clamp, 4 mounting screws.

Temperature range -55°C to 150°C

Housings Black phenolic
Covers Anodised Aluminium
Screws Zinc Plated steel
Jackscrews Stainless steel
Cable Clamp Zinc plated steel

219747

No. of Ways	Mfrs. List No.	Order Code	1+	10+	100+	250+
Plug						
34	213300-1	357-546 ●	24.75	23.83	20.75	18.78
Receptacle						
34	213522-1	357-558 ●	23.14	18.33	12.83	11.53
Order Multiple=10						
			10+	100+	500+	
Gold Plated Crimp Pins						
18-16 AWG, 0.8-1.4mm ²	66099-4	592-961 ●	1.03	0.70	0.59	
Gold Plated Crimp Sockets						
18-16 AWG, 0.8-1.4mm ²	66101-4	592-985 ●	1.16	0.80	0.66	

"J" Type Plugs and Sockets

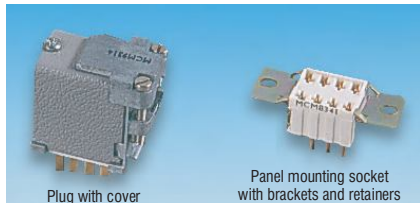


- Multipoint contacts
- Low contact resistance
- High working voltage
- Backshell with cable clamp
- Resilient finger contacts
- High current carrying capacity

Current Rating 5A
Working Voltage 900V DC or AC peak
Insulation Resistance 5000Mohm
Proof Voltage 3kV between contacts
Operating Temperature -40 to +100°C

450816

No. of Ways	Mfrs. List No.	Order Code	1+	25+	100+	250+
Plugs						
4	JA7784400000L00	128-2169 ●	1.44	1.32	1.23	1.15
8	JA7784600000L00	128-2171 ●	2.09	1.89	1.82	1.69
12	JA7784800000L00	128-2173 ●	2.45	2.24	2.12	1.99
20	JA7785000000L00	128-2175 ●	3.36	3.05	2.91	2.60
Sockets						
4	JA7784500000L00	128-2170 ●	2.10	1.91	1.83	1.73
8	JA7784700000L00	128-2172 ●	2.53	2.32	2.21	2.02
12	JA7784900000L00	128-2174 ●	5.32	4.77	4.29	4.06
20	JA7785100000L00	128-2176 ●	4.98	4.62	4.36	3.74
Backshell with Cable Clamp						
4	JA8338300PB0L01	128-2178 ●	4.85	4.47	4.25	3.81
8	JA8338400PB0L01	128-2179 ●	5.24	4.75	4.54	4.08
12	JA8338500PB0L01	128-2180 ●	4.46	4.05	3.86	3.47
20	JA8338600PB0L01	128-2181 ●	4.69	4.25	4.05	3.62



Medium power connectors with aluminium clad covers. Covers have a reversible cable clamp providing top or side entry. A polarising key is set in the end position as standard. All terminations are solder bucket.

Current rating	3A @ 55°C	Housings	Phenolic MCM 6F polyester
Working voltage	500V dc/ac peak	Covers	Plastic clad aluminium
Contact resistance	10mΩ	Contacts	Pins Brass, Gold over nickel plating
Insulation resistance	10000MΩ	Sockets	Phosphor bronze, gold over nickel plating
Proof voltage	1.5kV min		
Temperature range	-25°C to +85°C	Insertion/withdrawal force	2N/1.3N

208987

No. of Ways	Mfrs. List No.	Order Code	1+	25+	50+	100+	250+
Free Plug with Cover							
19	700/3452/19	104-720	11.08	--	--	--	--
Panel Socket							
19	700/3451/19S	104-722	5.64	--	--	--	--

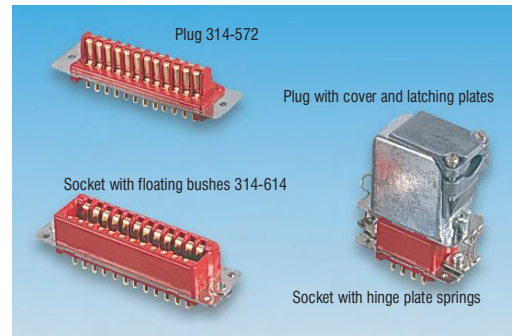
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Contact us now:
Web: www.farnell.co.uk
Phone: 08447 11 11 11

Red Range 5A



A range of connectors with a low insertion and withdrawal force, having barrier polarisation of plug relative to socket ensuring that incorrect contact cannot be made during blind insertion. Mouldings in red nylon PF.

Current rating @ 80°C	5A max	Insulation resistance (initially)	100000MΩ max
Operating voltage	800V dc	Contact resistance (initially)	5mΩ
Breakdown voltage	3.5kV dc/ac peak	Temperature range	-40°C to +100°C
Contact pitch	4.7mm		

Note: All covers are supplied with side entry, but can all be changed to top entry if required.

208989

No. of Ways	Mfrs. List No.	Order Code	1+	25+	50+	100+	250+	500+
Plugs								
8	RP8	314-559 ●	7.38	6.73	6.58	6.46	6.09	5.12
16	RP16	314-560 ●	10.11	9.20	8.97	8.79	8.32	7.10
24	RP24	314-572 ●	13.85	12.61	12.34	12.10	11.39	10.13
32	RP32	314-584 ●	23.99	18.33	16.26	14.54	12.70	10.83
Sockets with Floating Bushes								
8	RS8	314-596 ●	8.43	7.68	7.49	7.34	6.92	6.08
16	RS16	314-602 ●	12.33	11.22	10.96	10.75	10.13	8.96
24	RS24	314-614 ●	17.58	16.00	15.65	15.34	14.42	12.19
32	RS32	314-626 ●	28.11	22.19	19.02	16.98	14.83	12.59
Covers								
8	RC108	314-640 ●	15.22	11.49	10.19	9.10	7.73	6.70
24	RC124	314-663 ●	12.30	10.30	8.86	7.78	6.93	6.24
Order Multiple=4 Latching Plates								
	RLL	107-1815 ●	0.47	0.37	0.34	0.30	0.28	0.20

'ST' Series 2, 3, and 5 Way + Earth, 10A/16A



- Compact, mains power connectors
- Ideal for power supplies lighting systems, small drives
- Impact proof glass-fibre reinforced polyamide construction
- Screw termination 2 and 3 way crimp termination 5 way version
- Panel and surface connectors supplied with sealing gaskets
- IP54 rated
- Approvals,SEV

Rating	16A @ 250V ac/dc	(2, 3 way)
	10A @ 250V ac/dc	(5 way)
Contact resistance	≤5 mΩ	(2, 3 way)
	≤10 mΩ	(5 way)
Temperature range	-30°C to +90°C	
Housing	Glass-fibre reinforced polyamid, UL94-HB	
Contact Bearer	Glass-fibre reinforced polyamid, UL94V-1	
Contacts	Brass, nickel/Tin plated	



Rectangular Multipole - continued

'ST' Series 2, 3, and 5 Way + Earth, 10A/16A - continued

Cable dia Brass, silver plated (5 way)
4-6.5 mm (2 way)
6-10 mm (3-5 way)
Termination Screw (2, 3 way)
Crimp (5 way)

209098/406597

	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
Free Plug							
2 + Earth without strain relief	STAS2	117-6403●	2.48	2.15	1.91	1.64	1.55
2 + Earth with strain relief	STAS20	117-6405●	4.07	3.75	3.52	3.31	3.10
3 + Earth with strain relief	STAS3N	117-6406●	4.28	3.93	3.72	3.50	3.25
5 + Earth with strain relief	STAS5	117-6408●	5.15	4.47	3.96	3.46	3.21
Free Socket							
2 + Earth without strain relief	STAK2	117-6409●	3.63	3.26	3.08	2.90	2.71
2 + Earth with strain relief	STAK20	117-6410●	4.49	4.02	3.80	3.56	3.31
3 + Earth with strain relief	STAK3N	117-6412●	4.56	4.18	3.95	3.73	3.47
5 + Earth with strain relief	STAK5	117-6413●	5.94	5.18	4.61	3.97	3.72
Panel Plug							
2 + Earth	STASEI2	495-013●	3.09	2.70	2.40	2.07	1.93
3 + Earth	STASEI3	495-025●	4.12	3.81	3.57	3.39	3.15
5 + Earth	STASEI5	117-6414●	3.81	3.30	2.93	2.57	2.37
Panel Socket							
2 + Earth	STAKEI2	495-049●	3.53	3.07	2.72	2.37	2.20
3 + Earth	STAKEI3	117-6415●	3.67	3.40	3.20	3.00	2.79
5 + Earth	STAKEI5	117-6416●	3.28	2.85	2.54	2.19	2.06
Surface Plug							
2 + Earth	STASAP2	117-6417●	5.25	4.60	4.08	3.53	3.30
3 + Earth	STASAP3	117-6418●	5.71	5.25	4.95	4.65	4.32
5 + Earth	STASAP5	117-6421●	3.98	3.46	3.07	2.69	2.50
Surface Socket							
2 + Earth	STAKAP2	117-6422●	5.57	5.06	4.77	4.49	4.17
3 + Earth	STAKAP3	117-6423●	6.51	5.99	5.65	5.31	4.91
5 Per Pack Security Clip							
		Order Code	1+	10+	25+	50+	100+
2 way	STASI2	495-130●	1.88	1.61	1.43	1.24	1.16
		Order Code	1+				
Crimp tool	XZC0701	540-961			173.20		
Ejector tool	XWA164	540-973			28.85		

14

Solenoid Connectors



Free plug DIN 43650A
L=50, H=34
Mating Face=27.5 x 27.5 (615-604)
Plug base DIN 43650A
H=10 Mating Face, 30 x 30 (615-432)
Plug base DIN 43650B
H=9 Mating Face, 21 x 18.6 (615-511)
Free plug DIN 43650B
L=51, H=32
Mating Face=28.6 x 20.8 (615-456)
Free plug DIN 43650C
L=38, H=26
Mating Face=15.8 x 15.8
Contact pitch=8mm (615-523)
Plug base DIN 43650C
H=8.5 Mating Face, 17 x 17 (615-560)
Test adaptor (616-114)

- For use with solenoid, pneumatic and hydraulic valves
- Can be incorporated into pressure transducers, level sensors, limit switches etc.
- Conforming to DIN 43650 A,B, or C and manufactured to SEV, UR CSA and DSRK. UL Recognised
- Sealed to IP65
- Bases are supplied with earth screws where appropriate
- Test adaptor available for monitoring voltage and current (DIN 43650A only)
- Central screw provides vibration proof interlock with base

Rating	16A @ 250V ac/dc 8A @ 250V ac/dc 10A @ 250V ac/dc 8A @ 250V ac/dc 6A @ 250V ac/dc	DIN 43650 Type A DIN 43650 Type A with circuit DIN 43650 Type B DIN 43650 Type B with circuit DIN 43650 Type C
Contact resistance	≤4 mΩ	
Temperature range	-40°C to +125°C	
Material and Fire Properties	Glass-fibre reinforced polyamide/UL94-HB	
Casing	Cu Zn, tin plated	
Contacts		

Cable cross section

1.5mm²
0.75mm²
3.5-7mm
4.5-7mm
6.0-9.0mm

Cable diameter

DIN 43650 Type A,B
DIN 43650 Type C
PG9
PG9
PG11

204817

Order Multiple=1	Mfrs. List No.	Order Code	1+	25+	50+
Free plug, DIN 43650A					
2 + earth, PG9, Black	GDM 2009.BLACK	117-6452●	1.240	1.130	1.080
2 + earth, PG9, Grey	GDM2009.GREY	121-5298●	1.240	1.130	1.080
2 + earth, PG11, Black	GDM2011.BLACK	121-5299●	1.480	1.350	1.270
3 + earth, PG9, Black	GDM3009.BLACK	121-5300●	1.360	1.300	1.250
3 + earth, PG9, Grey	GDM3009.GREY	121-5301●	1.300	1.170	1.130
3 + earth, PG11, Black	GDM3011.BLACK	121-5302●	1.480	1.370	1.310
3 + earth, PG11, Grey	GDM3011.GREY	121-5303●	1.510	1.400	1.320
2 + earth, rectifier, PG11	GDML2011GB1	117-6455●	7.360	6.760	6.370
2 + earth, LED230V, PG11	GDML2011LG230	117-6457●	8.200	7.490	7.070
2 + earth, LED120V, PG11	GDML2011LG110	117-6458●	6.040	5.440	5.200
2 + earth, LED24V, PG11	GDML2011LED24	117-6459●	8.300	7.570	7.150
Plug base, DIN 43650A					
2 + earth,	GSA2000	117-6460●	1.180	1.150	1.100
3 + earth,	GSA3000	117-6461●	1.210	1.110	1.060
3 + PE	GSA-U 3000 N LO	166-2991●	1.020	0.840	
Free Plug, DIN 43650B					
2 + earth, PG9, Black	GMN209NJ.BLACK	117-6462●	1.780	1.590	1.520
2 + earth, LED24V, PG11	GMN209 NJ LED 24 HH	117-6463●	6.360	5.760	5.500
Free Plug, DIN 43650C					
2 + earth, PG7, Black	GDSN207.BLACK	117-6465●	1.120	1.010	0.950
3 + earth, PG7, Black	GDSN307.BLACK	117-6466●	1.240	1.130	1.080
Plug base, DIN 43650C					
2 + earth,	GSSNA200	117-6469●	1.250	1.150	1.090
3 + earth,	GSSNA300	117-6471●	1.320	1.180	1.130
Order Multiple=5					
Gasket	GDM3-16	810-710●	0.123	0.114	0.102
Gasket	GSA200-4NBR	138-8217●	0.188	0.167	0.146
Order Multiple=1					
Test adaptor	MESAP 43650	117-6472●	38.400	35.250	33.300
*With internal rectifier					

Modular Power Connectors

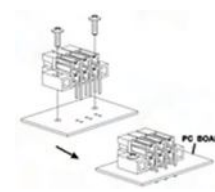


Modular Power Connectors 15A - 30A

Housing & Contacts, Single Pole



●Housings and contacts sold separately



Order Code	Wire Size AWG	Wire Size mm	Current Rating	Temperature Range
136-1308	20 - 16AWG	0.75 - 1.5mm ²	15A	-20 to +125°C
136-1309	16 - 12AWG	1.5 - 3.3mm ²	30A	-20 to +125°C

475007

Order Multiple=5	Order Code	5+	100+	250+	500+
Housing 15A - 45A					
Red	136-1303●	0.310	0.210	0.193	0.160
Black	136-1304●	0.310	0.210	0.193	0.160
White	136-1305●	0.310	0.210	0.193	0.160
Green	136-1306●	0.310	0.210	0.193	0.160
Blue	136-1307●	0.310	0.210	0.193	0.160
Brown	155-4846●	0.300	0.200	0.188	0.156
Mounting Wing					
Red	136-1313●	0.160	0.117	0.096	0.074
Contacts, Crimp					
15A	136-1308●	0.193	0.160	0.117	0.086
30A	136-1309●	0.193	0.160	0.117	0.086
Contacts, PCB R/A, 25A					
Pin/Contact Length 11 x 25mm	136-1310●	0.280	0.210	0.160	0.107
Pin/Contact Length 18.9 x 25.8mm	136-1311●	0.280	0.210	0.160	0.107
Pin/Contact Length 18.9 x 28.8mm	136-1312●	0.280	0.210	0.160	0.107
Order Multiple=1					
Crimp Tool					
	397-3943	108.420			

REACH - SVHCs



Products containing **Substances of Very High Concern** under REACH can now be easily identified online. Look for this logo to access supporting safety datasheets at www.farnell.co.uk



Modular Power Connectors 50A - 75A

Housing & Contacts, Single Pole



● Housings and contacts sold separately

Order Code	Wire Size AWG	Wire Size mm	Current Rating	Voltage Rating
136-1319	12 - 10AWG	4 - 6mm ²	50A	600v
136-1321	8AWG	8.3mm ²	60A	600v
136-1322	6AWG	14mm ²	75A	600v

475045

Order Multiple=5 Colour	Order Code	1+	50+	100+	250+
Housing 50A - 70A					
Red	136-1315●	0.85	0.64	0.53	0.46
Black	136-1316●	0.85	0.64	0.53	0.46
Green	136-1317●	0.85	0.64	0.53	0.46
Blue	136-1318●	0.85	0.64	0.53	0.46
Contacts, Crimp					
50A	136-1319●	0.69	0.64	0.53	0.45
60A	136-1321●	0.69	0.64	0.53	0.45
75A	136-1322●	0.69	0.64	0.53	0.45
Order Multiple=1 Crimp Tool		1+			
	397-3943	108.42			

Modular Power Connectors 50A - 75A

Housing & Contacts, Double Pole



● Housings and contacts sold separately

Order Code	Wire Size AWG	Wire Size mm	Current Rating	Voltage Rating
136-1319	12 - 10AWG	4 - 6mm ²	50A	600v

475047

Order Multiple=5 Colour	Order Code	1+	50+	100+	250+
Housing 50A					
Red	136-1323●	0.66	0.54	0.52	0.49
Black	136-1324●	0.66	0.54	0.52	0.49
Grey	136-1325●	0.66	0.54	0.52	0.49
Contacts, Crimp					
50A	136-1319●	0.69	0.64	0.53	0.45
Order Multiple=1 Crimp Tool		1+			
	397-3943	108.42			

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Heavy Duty Connectors - Tyco

HTS Heavy-Duty Connectors



Connector Components

HTS are rugged, heavy-duty connectors offering to 10 to 35 amp current carrying capacity and up to IP 68 sealing.

The connectors are commonly used in industrial machinery, control equipment, the automotive industry, railway rolling stock, audio and telecom engineering.

HTS Connectors are at home in environments where resistance to vibration, corrosion, humidity or physical damage is required, but are equally at home inside equipment cases.

Housings, inserts and contacts are sold separately to allow connectors to be matched to specific requirements.

HTS Series

The range comprises five product series, the main features of which are summarised below.

HA Series Standard density, 250V, 10 to 16A, 3, 4, 10, 16, 32 way, screw terminals, housings **IP44-65****HE Series** Standard density, 380V, 16A, 6, 10, 16, 24, 32 way, crimp or screw terminals, housings **IP65-68****HD Series** Double density, 250V, 10A, 7, 15, 25 way, crimp terminals, housings **IP65-68****HN.2D** High density, 250V, 10A, 24, 42, 72, 108 way, crimp terminals, housings **IP65-68****HSB Series** High power, 380V, 35A, 6, 12 way, screw terminals, housings, **IP65-68**

Technical Summary

	HA	HE	HD	HN.2D	HSB
Amp Rating	3/4 way 10A 10+ way 16A	16A max. 20A max. (UL)	10A max.	10A max. 12 max. (UL)	35A max.
Rated Voltage	250V Ins Group C 600V UL, CSA	380V Ins Group C 600V UL, CSA	250V Ins Group C 600V UL, CSA	250V Ins Group C 600V UL, CS	380V Ins Group C 600V UL, CSA
Insulation Group	3/4 way C 10+ way B	C	C	C	C
Termination	Screw	Screw, crimp	Crimp	Crimp	Screw
Approvals	UL, CSA, SEV, VDE				
Regulations	DIN VDE 0110, DIN VDE 0627				
Temp. Rating	-40°C to +125°C				
Cable Range	0.5-2.5mm	Screw 0.5-2.5mm Crimp 0.5-4.0mm	0.14-2.5mm	0.5-4.0mm	6mm
Materials					
Insert	Thermoplastic UL V-0				
Contacts	Copper alloy				
Plating	Hard silver plated				

For ease of product selection, the HTS range has been divided according to size. All inserts, housings and hoods within each size are compatible

Contact Arrangements

The following size, series, contact arrangements are available

227532

Size	HTS Series				
	HA No. of Ways	HE No. of Ways	HD No. of Ways	HN.2D No. of Ways	HSB No. of Ways
1	3, 4		7		
2	10		15		
3		6		24	
4		10		42	
5	16		25		
6		16		72	6
7	32				
8		24		108	
10		32			12

Size 1

Inserts



Minimum 40mm x 28mm space required for Bottom Entry Housing.

Mfrs. List No. 474992 1-1103400-1=131-647, 1-1103402-1=152-780, 1102195-1=135-5217,
1-1103401-1=131-696, 1-1103403-1=152-791, 1102194-1=135-5218,

Heavy Duty Connectors - Tyco - continued

Size 1 - continued

2-1103100-3=135-5219,
2-1103103-3=135-5222,
2-1103102-3=135-5221,

2-1103103-3=135-5222,
2-1103002-3=133-115
2-1103003-3=133-127,

2-1103104-3=135-5224,
2-1103105-3=135-5225,

	Order Code	1+	10+	25+
3 way + E male HA insert, screw terminal	131-647●	5.46	4.98	4.75
3 way + E female HA insert, screw terminal	131-696●	6.15	5.60	5.37
4 way + E male HA insert, screw terminal	152-780●	6.59	6.01	5.74
4 way + E female HA insert, screw terminal	152-791●	6.98	6.37	6.09
5 way + E male HE insert, screw terminal	135-5217●	4.20	4.00	3.68
5 way + E female HE insert, screw terminal	135-5218●	4.41	4.20	3.86
7 way + E male HN insert, crimp contacts	135-5219●	4.72	4.50	4.29
7 way + E female HN insert, crimp contacts	135-5220●	4.93	4.72	4.50
7 way + E male HN insert, screw terminal*	135-5221●	4.72	4.50	4.29
7 way + E female HN insert, screw terminal*	135-5222●	4.93	4.72	4.50
7 way + E insert male HD, crimp contacts	133-115●	3.05	2.97	2.90
7 way + E insert female HD, crimp contacts	133-127●	6.07	5.65	5.41
8 way + E insert male HN, screw contacts	135-5224●	5.96	5.70	5.44
8 way + E insert female HN, screw contacts	135-5225●	6.18	5.96	5.73

* Limited nominal Voltage (250V) when used in conjunction with metal housing (HA.3)

Hoods



Mfrs. List No.	1-1102416-7=131-740, 1-1102101-7=131-763, 1-1102103-7=131-775, 1-1102424-2=131-866,	1-1102112-2=131-878 1106405-1=135-5226 1106406-1=135-5228 1106403-1=135-5230	1106406-3=135-5229 1102856-1=135-5231 1106405-3=135-5227
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	Gland Thread	Order Code	1+	10+	25+
Hood, plastic, top entry	PG11	131-740●	3.04	2.68	2.34
Hood, metal, top entry with adaptor	PG11	131-763●	2.60	2.29	1.99
Hood, metal, side entry with adaptor	PG11	131-775●	3.48	3.14	2.91
Hood, plastic, cable to cable	PG11	131-866●	4.23	3.81	3.46
Hood, metal, cable to cable	PG11	131-878●	3.64	3.25	2.98
Hood, metal, top entry	M16	135-5226●	2.63	2.31	2.01
Hood, metal, side entry	M16	135-5228●	3.56	3.22	2.98
Hood, metal, cable to cable	M16	135-5230●	3.68	3.29	3.01
Hood, metal, side entry	M20	135-5229●	4.12	4.00	3.78
Hood, plastic, top entry	M20	135-5231●	3.69	3.44	3.31
Hood, metal, top entry	M20	135-5227●	3.06	2.74	2.45

Housings



Mfrs. List No.	1-1102420-2=131-910, 1-1102419-2=131-921,	1-1102107-2=131-933, 1-1102105-2=131-945,	1-1102109-2=131-994
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	Gland Thread	Order Code	1+	10+	25+
Housing, plastic, right angle, bottom entry	N/A	131-910●	4.78	4.46	4.27
Housing, plastic, vertical, bottom entry	N/A	131-921●	2.99	2.80	2.64
Housing, metal, right angle, bottom entry	N/A	131-933●	4.45	4.14	3.97
Housing, metal, vertical, bottom entry	N/A	131-945●	2.44	2.30	2.19
Housing, metal, vertical, bottom entry	N/A	135-5237●	40.98	39.42	37.97
Housing, metal, right angle, bottom entry	N/A	135-5238●	32.98	31.72	30.56
Housing, metal, side entry with adaptor	PG11	131-994●	7.10	6.39	5.75
Housing, metal, side entry	M16	135-5239●	31.73	30.53	29.39
Housing, plastic, side entry	M20	135-5236●	7.83	7.71	7.50

Accessories

227295

	Mfrs. List No.	Order Code	1+	10+	25+
Metal dust cover	2-1106205-7	132-032●	2.31	2.14	2.05
Cable gland kit (PG11 thread)	1-1106004-9	355-1532●	0.89	0.80	0.65

Size 2



Inserts



Mfrs. List No. 1-1103414-1=131-660,
1-1103415-1=131-714,
2-1103004-3=133-152,
2-1103005-3=133-164

Minimum 81mm x 30mm space required for Bottom Entry Housing

	Order Code	1+	10+	25+
10 way male HA insert, screw terminal	131-660●	7.57	6.96	6.68
10 way female HA insert, screw terminal	131-714●	8.47	7.89	7.54
10 way male HA insert, spring clamp	135-5241●	8.31	7.33	6.39
10 way female HA insert, spring clamp	135-5242●	8.79	7.77	6.76
15 way male HD insert, crimp contacts	133-152●	7.07	6.58	6.29
15 way female HD insert, crimp contacts	133-164●	11.89	11.07	10.59
15 way male HN insert, crimp contacts	135-5243●	8.05	7.12	6.20
15 way female HN insert, crimp contacts	135-5244●	10.46	9.49	8.46

Hoods



Mfrs. List No.	1-1102119-7=131-787, 1-1102116-7=131-799, 1-1102426-7=131-842,	1-1102132-2=131-880 1106411-2=135-5245 1106411-1=135-5248
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	Gland Thread	Order Code	1+	10+	25+
Hood, top entry	PG16	131-787●	6.39	5.92	5.51
Hood, side entry	PG16	131-799●	6.02	5.56	5.11
Hood, high profile (extra wiring space)	PG16	131-842●	10.91	9.83	8.87
Hood, cable to cable	PG16	131-880●	9.88	8.80	7.98
Hood, side entry	M20	135-5245●	7.94	7.34	6.75
Hood, top entry	M20	135-5248●	7.77	7.20	6.69

Housings



Mfrs. List No.	1-1102121-2=131-957, 1-1102124-2=132-007	1106410-2=135-5250
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	Gland Thread	Order Code	1+	10+	25+
Housing, bottom entry, surface mount 81mm x 30mm	N/A	131-957●	5.94	5.53	5.28
Housing, side entry, surface mount 72.5mm x 50mm	PG16	132-007●	8.93	8.07	7.26
Housing, side entry	M20	135-5250●	8.58	7.75	6.98

Accessories

227292

	Mfrs. List No.	Order Code	1+	10+	25+
Dust cover	2-1106206-7	132-044●	3.44	3.18	3.05
Cable gland kit (PG16 thread)	3-1106004-9	355-1544●	1.05	0.85	0.71

Size 3



Minimum 80mm x 43.5mm space required for Bottom Entry Housing.

Inserts



Mfrs. List No.	1-1103634-1=133-371, 1-1103635-1=133-383,	2-1103200-3=132-070, 2-1103202-3=132-081	7-1103634-1=135-5252 7-1103635-1=135-5253
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	Order Code	1+	10+	25+
6 way male HE insert, screw terminal	133-371●	5.46	5.08	4.86
6 way female HE insert, screw terminal	133-383●	5.66	5.26	5.04
24 way male HN2D insert, crimp contacts	132-070●	6.15	5.99	5.85
24 way female HN2D insert, crimp contacts	132-081●	6.05	5.91	5.76
6 way male HE insert, spring clamp	135-5252●	5.56	4.89	4.28
6 way female HE insert, spring clamp	135-5253●	5.77	5.09	4.42

Hoods



Mfrs. List No.	1-1102466-7=132-111, 1-1102242-7=132-093, 1-1102239-7=132-100, 1-1102460-7=132-123,	1106419-7=135-5254 1106419-2=135-5255 1102769-1=135-5256 1106417-1=135-5257	1106416-4=135-5258 1106416-3=135-5261 1106419-1=135-5262
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	Gland Thread	Order Code	1+	10+	25+
Hood, top entry, high profile (extra wiring space)	PG21	132-111●	8.11	7.11	6.19
Hood, top entry	PG16	132-093●	6.41	5.61	4.86
Hood, side entry	PG16	132-100●	6.14	5.38	4.66
Hood, side entry, high profile (extra wiring space)	PG21	132-123●	5.94	5.20	4.52
Hood, side entry	M20	135-5254●	6.20	5.43	4.71
Hood, side entry	M25	135-5255●	6.30	5.54	4.81
Hood, top entry	M25	135-5256●	7.99	6.99	6.09
Hood, cable to cable	M20	135-5257●	8.86	7.88	7.01
Hood, side entry	M25	135-5258●	52.39	49.36	47.20
Hood, top entry	M32	135-5261●	52.39	49.36	47.20
Hood, top entry	M25	135-5262●	6.47	5.66	4.91

Housings

Mfrs. List No.	1-1102244-2=132-147, 1-1102249-2=132-159	1106418-2=135-5263 4-1102712-5=135-5264
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	Gland Thread	Order Code	1+	10+	25+
Housing, bottom entry, surface mount 80mm x 43mm	N/A	132-147●	7.20	6.71	6.42
Housing, bottom entry	N/A	135-5264●	55.24	51.83	49.68
Housing, side entry, surface mount 83mm x 52mm	PG16	132-159●	9.77	8.79	7.93
Housing, side entry	M25	135-5263●	9.67	8.70	7.85

Accessories

227294

	Mfrs. List No.	Order Code	1+	10+	25+
Dust cover panel	1-1106207-7	132-160●	6.41	5.91	5.65
Cable gland kit (PG16 thread)	3-1106004-9	355-1544●	1.05	0.85	0.71
Cable gland kit (PG21 thread)	4-1106004-9	355-1556●	1.50	1.25	1.01
Cover	4-1106201-5	135-5265●	21.37	18.51	17.89

Size 4



Inserts



Minimum 93mm x 43.5mm space required for Bottom Entry Housing

Mfrs. List No.	1-1103636-1=133-413, 1-1103637-1=133-425, 2-1103204-3=132-184,	2-1103206-3=132-196 2-1103636-3=135-5266 2-1103637-3=135-5267	1103089-1=135-5268 1103090-1=135-5269
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	Order Code	1+	10+	25+
10 way male HE insert, screw terminal	133-413●	7.06	6.57	6.28
10 way female HE insert, screw terminal	133-425●	7.42	6.92	6.62
42 way male HN2D insert, crimp contacts	132-184●	6.05	5.91	5.76
42 way female HN2D insert, crimp contacts	132-196●	8.61	8.33	8.13
10 way male HE insert, crimp contact	135-5266●	4.65	4.41	4.25
10 way female HE insert, crimp contacts	135-5267●	4.69	4.43	4.28
8+24 way male insert, crimp contacts	135-5268●	9.72	9.10	8.85
8+24 way female insert, crimp contacts	135-5269●	9.82	9.20	8.96

Hoods



Mfrs. List No.	1-1102501-6=132-226, 1-1102266-6=132-202, 1-1102260-6=132-214, 1-1102495-6=132-238,	1-1102278-1=132-240 1106430-4=135-5270 1106434-4=135-5271 1106430-1=135-5273	1106434-1=135-5274 1106427-3=135-5275 1106427-4=135-5276
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	Gland Thread	Order Code	1+	10+	25+
Hood, top entry, high profile (extra wiring space)	PG21	132-226●	10.29	9.00	7.83
Hood, top entry	PG16	132-202●	6.39	5.58	4.87
Hood, side entry	PG16	132-214●	9.11	8.40	7.80
Hood, side entry, high profile (extra wiring space)	PG21	132-238●	8.04	7.04	6.12
Hood, cable to cable	PG16	132-240●	9.52	8.58	7.73
Hood, side entry	M25	135-5270●	9.30	8.31	7.73
Hood, side entry	M32	135-5271●	11.07	9.82	9.14
Hood, top entry	M25	135-5273●	8.06	7.05	6.14
Hood, top entry	M32	135-5274●	9.66	8.49	7.92
Hood, side entry	M25	135-5275●	71.21	67.88	65.41
Hood, top entry	M25	135-5276●	62.25	58.01	55.54

Housings



Mfrs. List No.	1-1102271-1=312-6316, 1-1102274-1=132-263,	4-1102720-5=135-5277, 1106426-2=135-5278,
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	Gland Thread	Order Code	1+	10+	25+
Housing, bottom entry, surface mount 93mm x 43.5mm	N/A	312-6316●	9.96	9.19	8.78
Housing, side entry, surface mount 92mm x 52mm	PG16	132-263●	12.49	11.27	10.11
Housing, side entry	M32	135-5278●	113.07	104.90	101.70
Housing, bottom entry	N/A	135-5277●	56.63	53.31	50.84

Accessories

227293

	Mfrs. List No.	Order Code	1+	10+	25+
Dust cover cable	1-1106209-1	132-287●	8.82	—	—
Cable gland kit (PG16 thread)	3-1106004-9	355-1544●	1.05	0.85	0.71
Cable gland kit (PG21 thread)	4-1106004-9	355-1556●	1.50	1.25	1.01
Cable gland kit (PG21 thread)	4-1106202-5	135-5279●	23.32	20.36	19.50

Size 5

Inserts



Minimum 96mm x 29mm space required for Bottom Entry Housing

Mfrs. List No.	1-1103416-1=131-672, 1-1103417-1=131-726,	2-1103010-3=133-176, 2-1103011-3=133-188	7-1103416-1=135-5280 7-1103417-1=135-5281
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	Order Code	1+	10+	25+
16 way male HA insert, screw terminal	131-672●	9.94	9.16	8.75
16 way female HA insert, screw terminal	131-726●	13.74	12.15	10.57
25 way male HD insert, requires HD crimp contacts	133-176●	7.78	6.88	6.00
25 way female HD insert, requires HD crimp contacts	133-188●	7.94	7.39	7.09
16 way male HA insert, spring clamp	135-5280●	7.63	6.79	5.98
16 way female HA insert, spring clamp	135-5281●	8.70	8.18	7.96

Hoods



Mfrs. List No.	1-1102138-7=131-805, 1-1102135-7=131-817,	1-1102529-7=131-854, 1-1102151-2=131-891
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Heavy Duty Connectors - Tyco - continued

Size 5 - continued

	Gland Thread	Order Code	1+	10+	25+
Hood, top entry	PG16	131-805●	9.06	8.83	8.66
Hood, side entry	PG16	131-817●	9.06	8.83	8.66
Hood, side entry, high profile (extra wiring space)	PG16	131-854●	11.58	10.03	9.05
Hood, cable to cable	PG16	131-891●	14.33	12.80	11.31
Hood, side entry	M20	135-5282●	8.97	8.75	8.57
Hood, top entry	M20	135-5285●	8.97	8.75	8.57
Hood, cable to cable	M20	135-5287●	12.52	11.18	9.88
Hood, side	M25	135-5283●	11.00	10.75	10.61
Hood, top	M25	135-5286●	10.79	10.54	10.41

Housings



Mfrs. List No.	1-1102140-2=131-969, 1-1102143-2=132-019	1106438-2=135-5288 1106441-2=135-5289
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	Gland Thread	Order Code	1+	10+	25+
Housing, bottom entry, surface mount 96mm x 29mm	N/A	131-969●	8.93	8.22	7.85
Housing, side entry, surface mount 102mm x 50mm	PG16	132-019●	10.74	9.71	8.72
	M20	135-5288●	12.24	11.07	9.94
	M25	135-5289●	15.34	14.91	14.66

Accessories

227298

	Mfrs. List No.	Order Code	1+	10+	25+
Cable gland kit (PG16 thread)	3-1106004-9	355-1544●	1.05	0.85	0.71

14

Size 6 Inserts



Minimum 113mm x 57mm space required for Bottom Entry Housing.

Mfrs. List No.	1-1104204-1=133-267, 1-1104205-1=133-279, 1-1103638-1=133-450, 1-1103639-1=133-462,	7-1103638-1=135-5290, 7-1103639-1=135-5291, 2-1103110-3=135-5292, 2-1103111-3=135-5293,	1108761-1=135-5294, 1108762-1=135-5295, 1102075-1=135-5297, 1102076-1=135-5298,
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	Order Code	1+	10+	25+
6 way male HSB insert, screw terminal	133-267●	16.50	15.35	14.70
6 way female HSB insert, screw terminal	133-279●	18.67	16.98	16.24
16 way male HE insert, screw terminal	133-450●	8.80	8.19	7.82
16 way female HE insert, screw terminal	133-462●	9.25	8.61	8.24
16 way male HE insert, spring clamp	135-5290●	7.63	7.11	6.60
16 way female HE insert, spring clamp	135-5291●	7.63	7.11	6.60
40 way male HN.D insert, crimp contacts	135-5292●	7.28	7.04	6.77
40 way female HN.D insert, crimp contacts	135-5293●	7.28	7.04	6.77
6+36 way male HSK insert, crimp contacts	135-5294●	11.34	11.10	10.86
6+36 way female HSK insert, crimp contacts	135-5295●	11.57	11.31	11.12
4+2 way male HE insert, screw contacts	135-5297●	40.99	38.87	37.30
4+2 way female HE insert, screw contacts	135-5298●	45.78	42.23	40.45



Mfrs. List No.	2-1103208-3=131-659, 2-1103212-3=131-702 1106449-4=135-5299	1106452-4=135-5300 1106449-1=135-5301 1106452-1=135-5303	1106450-2=135-5304 1106446-4=135-5305 1106446-3=135-5306
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	Order Code	1+	10+	25+
72 way male HN2D insert, requires HN2D crimp contacts	131-659●	7.15	6.95	6.78
72 way female HD insert, requires HN2D crimp contacts	131-702●	7.15	6.95	6.78

Hoods



Mfrs. List No.	1-1102572-6=132-317 1-1102294-6=132-299 1-1102290-6=132-305 1-1102566-6=132-329	1106449-4=135-5299 1106452-4=135-5300 1106449-1=135-5301 1106452-1=135-5303	1106450-2=135-5304 1106446-4=135-5305 1106446-3=135-5306
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	Gland Thread	Order Code	1+	10+	25+
Hood, top entry, high profile (extra wiring space)	PG29	132-317●	13.00	11.40	9.91
Hood, top entry	PG21	132-299●	7.11	6.69	6.34
Hood, side entry	PG21	132-305●	10.41	8.59	6.93
Hood, side entry, high profile (extra wiring space)	PG29	132-329●	13.00	11.40	9.91
Hood, side entry	M32	135-5299●	5.21	4.90	4.64
Hood, side entry	M32	135-5300●	11.87	9.78	7.90
Hood, top entry	M32	135-5301●	6.71	6.30	5.97
Hood, top entry	M32	135-5303●	11.87	9.78	7.90
Hood, cable to cable	M32	135-5304●	13.96	13.66	13.50
Hood, side entry	M32	135-5305●	57.51	54.55	51.84
Hood, top entry	M32	135-5306●	66.15	63.19	60.72

Housings

Mfrs. List No.	1-1102296-1=132-342, 1-1102299-1=132-354, 1-1102296-8=355-6591 1106448-4=135-5307	1106451-4=135-5308 4-1102730-5=135-5309 1106445-2=135-5310
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	Gland Thread	Order Code	1+	10+	25+
Housing, bottom entry, surface mount 113mm x 57mm	N/A	132-342●	10.66	9.81	9.37
Housing, side entry, surface mount 117mm x 57mm	PG21	132-354●	15.29	13.39	11.64
Central locking base	N/A	355-6591●	8.79	7.81	6.62
Housing, side entry	M25	135-5307●	15.14	13.26	11.53
Housing, side entry	M32	135-5308●	14.70	12.87	11.19
Housing side entry	M32	135-5310●	148.93	141.93	135.76
Housing, bottom entry	N/A	135-5309●	91.07	85.94	83.59

Accessories

227297

	Mfrs. List No.	Order Code	1+	10+	25+
Cable gland kit (PG21 thread)	4-1106004-9	355-1556●	1.50	1.25	1.01
Cable gland kit (PG29 thread)	5-1106004-9	355-1568●	1.61	1.41	1.17

Size 7



Minimum 96mm x 29mm space required for Bottom Entry Housing.

Inserts



Mfrs. List No.	1-1103416-1=131-672, 1-1103417-1=131-726,	1-1103416-7=131-684,	1-1103417-7=131-738
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	Order Code	1+	10+	25+
32 way male HA insert, screw terminal, marked 1-16	131-672●	9.94	9.16	8.75
32 way female HA insert, screw terminal marked 1-16	131-726●	13.74	12.15	10.57
32 way male HA insert, screw terminal marked 16-32	131-684●	9.90	9.22	8.82
32 way female HA insert screw terminal, marked 16-32	131-738●	11.91	10.53	9.18

Note: 32 way male insert comprises 131-672 and 131-684
32 way female insert comprises 131-726 and 131-738

Hoods



	Gland Thread	Mfrs. List No.	Order Code	1+	10+	25+
Hood, top entry	PG21	1-1102157-6	131-829 ●	14.97	13.48	12.15
Hood, side entry	PG21	1-1102154-6	131-830 ●	14.97	13.48	12.15

Housings



Mfrs. List No.	1-1102160-1=131-970,	1-1102162-1=132-020
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	Gland Thread	Order Code	1+	10+	25+
Housing, bottom entry, surface mount 102mm x 56mm	N/A	131-970 ●	13.57	12.62	12.08
Housing, side entry, surface mount 106mm x 56mm	PG21	132-020 ●	18.18	16.27	14.74

Accessories

227299

	Mfrs. List No.	Order Code	1+	10+	25+
Cable gland kit (PG21thread)	4-1106004-9	355-1556 ●	1.50	1.25	1.01

Size 8



Minimum 140mm x 57mm space required for Bottom Entry Housing.

Inserts



Mfrs. List No.	1-1103640-1=133-498, 1-1103641-1=133-504, 2-1103640-3=132-925,	2-1103216-3=132-380, 2-1103220-3=132-391, 7-1103640-1=135-5312	7-1103641-1=135-5313 2-1103112-3=135-5315 2-1103113-3=135-5316
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	Order Code	1+	10+	25+
24 way male HE insert, screw terminal	133-498 ●	11.73	10.79	10.33
24 way female HE insert, screw terminal	133-504 ●	12.04	11.20	10.71
24 way male HE insert, requires crimp contacts	132-925 ●	9.40	8.68	8.03
24 way female HE insert, requires HE crimp contacts	132-974 ●	8.31	7.56	6.78
108 way male HN2D insert, requires HN2D crimp contacts	132-380 ●	8.30	8.12	7.91
108 way female HN2D insert, requires HN2D crimp contacts	132-391 ●	8.30	8.12	7.91
108 way female HN2D insert, requires HN2D crimp contacts	135-5312 ●	10.08	9.30	8.60
108 way female HN2D insert, requires HN2D crimp contacts	135-5313 ●	6.78	6.17	5.54
108 way female HN2D insert, requires HN2D crimp contacts	135-5315 ●	8.83	8.30	7.82
108 way female HN2D insert, requires HN2D crimp contacts	135-5316 ●	8.83	8.30	7.82

Hoods



Mfrs. List No.	1-1103343-6=132-421,	1-1102324-6=132-408,	1-1102315-6=132-410,
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1-1103337-6=132-433,
1-1102228-6=133-516,
1-1102335-1=132-445
1106465-4=135-5317

1106465-1=135-5318
1-1106470-9=135-5319
3-1106470-0=135-5320

1106468-2=135-5321
1106461-3=135-5322
1106461-4=135-5323

	Gland Thread	Order Code	1+	Price Each 10+	25+
Hood, top entry, high profile (extra wiring space)	PG29	132-421 ●	15.83	15.12	14.63
Hood, top entry	PG21	132-408 ●	11.86	11.58	11.35
Hood, side entry	PG21	132-410 ●	9.30	9.08	8.91
Hood, side entry, high profile (extra wiring space)	PG29	132-433 ●	12.76	11.17	9.71
Hood, side entry	M32	135-5317 ●	9.12	8.90	8.73
Hood, top entry	M32	135-5318 ●	11.74	11.46	11.24
Hood, side entry HD	M40	135-5319 ●	14.69	14.19	13.46
Hood, top entry	M40	135-5320 ●	14.77	14.27	13.53
Hood, cable to cable	M32	135-5321 ●	15.04	13.34	11.23
Hood, side entry	M40	135-5323 ●	71.80	64.97	62.40
Hood, side entry, high profile (extra wiring space)	N/A	135-5322 ●	62.44	56.35	52.67

Housings



Mfrs. List No.	1-1102291-1=132-457, 1-1102331-1=132-469,	1-1102291-8=355-6608
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	Order Code	1+	Price Each 10+	25+
Housing, bottom entry, surface mount 140mm x 57mm	132-457 ●	11.36	10.46	10.00
Housing, side entry, surface mount 144mm x 57mm	132-469 ●	13.66	12.58	11.63
Central locking housing	355-6608 ●	9.38	8.33	7.04
Housing, side entry 144mm x 57mm	135-5324 ●	15.30	13.29	11.44
Housing, side entry 144mm x 57mm	135-5325 ●	15.94	14.48	13.09
Housing, bottom entry, surface mount 156mm x 56mm	135-5327 ●	67.26	61.99	60.14
Housing, side entry 150mm x 56mm	135-5328 ●	165.99	148.10	138.22

Accessories

227300

	Mfrs. List No.	Order Code	1+	Price Each 10+	25+
Cable gland kit (PG21thread)	4-1106004-9	355-1556 ●	1.50	1.25	1.01
Cable gland kit (PG29 thread)	5-1106004-9	355-1568 ●	1.61	1.41	1.17

Size 10



Minimum 102mm x 69mm space required for Bottom Entry Housing.

Inserts



Mfrs. List No.	1-1103638-1=133-450, 1-1103639-1=133-462,	1-1103638-9=133-530,	1-1103639-9=133-541,
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	Order Code	1+	Price Each 10+	25+
32 way male HE screw terminal insert, marked 1-16	133-450 ●	8.80	8.19	7.82
32 way female HE screw terminal insert, marked 1-16	133-462 ●	9.25	8.61	8.24
32 way male HE screw terminal insert, marked 17-32	133-530 ●	13.20	12.02	11.50
32 way female HE screw terminal insert, marked 17-32	133-541 ●	17.94	16.68	15.97

Note: 32 way male connector requires inserts marked 1-16 and 17-32
32 way female connector requires inserts marked 1-16 and 17-32

Mfrs. List No.	1-1104204-1=133-267, 1-1104205-1=133-279,	1-1104206-1=133-292,	1-1104207-1=133-309
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	Order Code	1+	Price Each 10+	25+
12 way HSB male, screw terminal, marked 1-6	133-267 ●	16.50	15.35	14.70
12 way HSB female, screw terminal, marked 1-6	133-279 ●	18.67	16.98	16.24
12 way HSB male, screw terminal, marked 7-12	133-292 ●	20.11	18.31	17.51
12 way HSB female, screw terminal, marked 7-12	133-309 ●	22.97	21.37	20.44



Heavy Duty Connectors - Tyco - continued

Size 10 - continued

Hoods



	Gland Thread	Mfrs. List No.	Order Code	1+	10+	25+
Hood, top entry	PG29	1-1102350-6	132-846 ●	24.60	22.00	19.55
Hood, side entry	PG29	1-1102347-6	132-858 ●	24.60	22.00	19.55

Housings



Mfrs. List No. 1-1102352-1=132-871,

	Gland Thread	Order Code	1+	10+	25+
Housing, bottom entry, surface mount 102mm x 69mm	N/A	132-871 ●	18.63	17.32	16.60

Accessories

227301

	Mfrs. List No.	Order Code	1+	10+	25+
Cable gland kit (PG29 thread)	5-1106004-9	355-1568 ●	1.61	1.41	1.17

HTS Contacts and Tooling

HE Crimp Contacts



	Wire Size (mm²)		Mfrs. List No.	Order Code	1+	10+	25+
Pin	0.75-1	Silver	2-1105100-1	133-000 ●	0.240	0.220	0.200
Pin	1.5	Silver	3-1105100-1	133-012 ●	0.178	0.163	0.153
Socket	1.5	Silver	3-1105101-1	133-061 ●	0.220	0.210	0.200

HE Tooling

227302

	Mfrs. List No.	Order Code	Price Each
HTS Crimp Tool	1-1105850-8	355-7110	98.26
HE Locator and Die	1-1105852-8	355-7121	167.89
HE Insertion Tool	1102855-6	393-1560	27.19

HN2D Crimp Contacts



Order Multiple=5	Wire Size (mm)		Mfrs. List No.	Order Code	5+	100+	250+
Pin	0.14-0.37	Silver	1-1105050-1	132-494 ●	0.38	0.35	0.32
Pin	0.5	Silver	2-1105050-1	132-500 ●	0.38	0.35	0.32
Pin	0.75-1	Silver	3-1105050-1	132-512 ●	0.40	0.39	0.38
Pin	1.5	Silver	4-1105050-1	132-524 ●	0.40	0.39	0.38
Pin	2.5	Silver	5-1105050-1	132-536 ●	0.51	0.50	0.49
Socket	0.14-0.37	Silver	1-1105051-1	132-548 ●	0.51	0.50	0.49
Socket	0.5	Silver	2-1105051-1	132-550 ●	0.51	0.50	0.49
Socket	0.75-1	Silver	3-1105051-1	132-561 ●	0.40	0.39	0.38
Socket	1.5	Silver	4-1105051-1	132-573 ●	0.40	0.39	0.38
Socket	2.5	Silver	5-1105051-1	132-585 ●	0.51	0.50	0.49
Pin	0.14-0.37	Gold	1-1105050-2	132-597 ●	0.47	0.44	0.42
Pin	1.5	Gold	4-1105050-2	132-627 ●	0.45	0.44	0.43
Socket	0.14-0.37	Gold	1-1105051-2	132-640 ●	0.43	0.40	0.39

HN2D Tooling

227303

	Mfrs. List No.	Order Code	Price Each
HTS Crimp Tool	1-1105850-8	355-7110	98.26
HN2D Locator and Die	1-1105852-8	355-7121	167.89
HN2D Insertion Tool	1102855-6	393-1560	27.19
HN2D Extraction Tool	1102855-2	393-1572	28.26

HD Crimp Contacts



Order Multiple=10	Wire Size (mm²)		Mfrs. List No.	Order Code	10+	500+	1K+
Pin	0.3-0.56	Tin	164163-1	133-190 ●	0.270	0.178	0.158
Pin	0.5-1.5	Tin	164164-5	133-218 ●	0.280	0.260	0.240
Socket	0.3-0.56	Tin	163088-1	133-206 ●	0.185	0.175	0.166
Socket	0.5-1.5	Tin	2-1105001-3	133-220 ●	0.270	0.250	0.220

HD Tooling

227304

	Mfrs. List No.	Order Code	Price Each
HTS Crimp Tool	1-1105850-8	355-7110	98.26
HD Locator and Die	0-0539668-2	355-7133	115.70
HD Insertion Tool	1102855-6	393-1560	27.19
HD Extraction Tool	1102855-1	393-1584	28.26

Size Q

HTS



Inserts



Mfrs. List No.	1103095-1=135-5359,	Mfrs. List No.	1103070-1=135-5361,
Mfrs. List No.	1103096-1=135-5360,	Mfrs. List No.	1103071-1=135-5362,

	Order Code	1+	10+	25+
4/2 way male insert, crimp terminal	135-5359 ●	7.97	7.17	6.90
4/2 way female insert, crimp terminal	135-5360 ●	7.97	7.17	6.90
8 way male insert, crimp terminal	135-5361 ●	6.66	5.99	5.76
8 way female insert, crimp terminal	135-5362 ●	6.66	5.99	5.76

Hoods



Mfrs. List No.	1103073-1=135-5364,
Mfrs. List No.	1103073-2=135-5365,
Mfrs. List No.	1108795-1=135-5366,

	Order Code	1+	10+	25+
Hood, side entry M25	135-5364 ●	3.57	3.21	3.09
Hood, top entry M25	135-5365 ●	3.57	3.21	3.09
Hood, cable to cable M25	135-5366 ●	6.08	5.46	5.26

Housing

Mfrs. List No. 1103072-1=135-5367,

484003

	Order Code	1+	10+	25+
Housing, bottom entry	135-5367 ●	3.13	2.82	2.71

Plastic Cable Fitting

HTS



- Plastic
- Corrosion protected
- Cable diameter range = 5mm to 28mm

483979

14

Farnell



40,000 PRICES REDUCED



Thread Size	Cable Ø From-To mm	Mfrs. List No.	Order Code	1+	10+	25+	+
M16	5 - 10	1-1102771-6	135-5335●	1.06	0.95	0.93	--
M20	8 - 13	2-1102771-0	135-5336●	1.30	1.17	1.13	--
M25	11 - 17	2-1102771-5	135-5337●	1.84	1.66	1.60	--
M32	15 - 21	3-1102771-2	135-5339●	2.72	2.44	2.35	--
M40	19 - 28	4-1102771-0	135-5341●	10.43	9.38	9.03	--

Metal Cable Fitting HTS



- Metal
- Corrosion protected

483982

Thread Size	Cable Ø From-To mm	Mfrs. List No.	Order Code	1+	10+	25+	+
M16	5 - 10	1-1102771-6	135-5335●	1.06	0.95	0.93	--
M20	8 - 13	2-1102771-0	135-5336●	1.30	1.17	1.13	--
M25	11 - 17	2-1102771-5	135-5337●	1.84	1.66	1.60	--
M32	15 - 21	3-1102771-2	135-5339●	2.72	2.44	2.35	--
M40	19 - 28	4-1102771-0	135-5341●	10.43	9.38	9.03	--

EMV Cable Fitting HTS



- Metal
- Protected against electro-magnetic interference
- Cable Diameter range = 5mm to 27mm

483913

Thread Size	Cable Ø From-To mm	Mfrs. List No.	Order Code	1+	10+	25+	+
M16	5 - 9	1-1102770-6	135-5342●	3.49	3.13	3.02	--
M20	8 - 13	2-1102770-0	135-5343●	5.25	4.72	4.54	--
M25	11 - 17	2-1102770-5	135-5344●	6.72	6.04	5.81	--
M32	15 - 21	3-1102770-2	135-5345●	13.13	11.82	11.37	--
M40	19 - 28	4-1102770-0	135-5346●	19.11	17.20	16.54	--

Crimp Contacts HVS



- Contacts to be used with HVS series inserts
- Silver plated copper alloy contacts

Contact resistance 3mΩ
Contact Material Copper Alloy
Contact Plating Hard Silver

483994

Wire Size mm ²	Mfrs. List No.	Order Code	1+	10+	25+
Pin					
1.5	1-1108757-1	135-5348●	2.94	2.63	2.54
2.5	2-1108757-1	135-5350●	2.49	2.24	2.16
4	3-1108757-1	135-5353●	2.49	2.24	2.16
6	4-1108757-1	135-5355●	2.49	2.24	2.16
Socket					
1.5	1-1108756-1	135-5347●	4.30	3.87	3.72
2.5	2-1108756-1	135-5349●	3.75	3.36	3.24
4	3-1108756-1	135-5352●	4.65	4.18	4.02
6	4-1108756-1	135-5354●	4.05	3.64	3.50

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Heavy Duty Connectors - Harting

HAN3, HAN4 Plastic Hood and Base Connector Kits



Pushing Performance



Side Entry Hood with Male Insert



Top Entry Hood with Male Insert



Straight Bulkhead Base with Female Insert



R/A Bulkhead Base with Female Insert



In-Line Hood with Female Insert

- 3 and 4 way HAN A type connector half kits
- Screw cable termination
- Plastic housings

- Kits include connector housing and contact insert
- Note: Cable gland is not included in kit.

Current rating 10A
Voltage rating 600V AC
Termination Screw

Contact resistance 1mΩ
Temperature range -40°C to 125°C

For suitable cable glands see Cable Accessories section

410591

	Gland Thread	Order Code	1+	Price Each 10+	25+
Hood with Male Insert					
3 way top entry	M20	963-7060●	6.58	6.12	5.83
4 way side entry	M20	963-7095●	7.78	7.21	6.88
4 way top entry	M20	963-7087●	7.56	7.01	6.72
Straight Bulkhead Base with Female Insert					
3 Way	N/A	963-7109●	8.04	7.21	6.77
4 way	N/A	963-7125●	7.34	6.61	6.22
R/A Bulkhead Base with Female Insert					
4 Way	N/A	963-7133●	10.72	9.67	9.13
In-Line Hood with Female Insert					
3 way plastic	M20	963-7141●	6.99	6.49	6.17
4 way plastic	M20	963-7150●	8.48	7.87	7.56

HAN 3A, HAN4A Metal Hood and Base Connector Kits



Pushing Performance



Side Entry Hood with Male Insert



Top Entry Hood with Male Insert



In-Line Hood with Female Insert



R/A Bulkhead Base with Female Insert



Straight Bulkhead Base with Female Insert

- Kits include connector housing and contact insert
- Note: Cable gland is not included in kit.

- 3 and 4 way HAN A type connector half kits
- Screw cable termination
- Metal housings

Current rating 10A
Voltage rating 600V AC
Termination Screw

Contact resistance 1mΩ
Temperature range -40°C to 125°C

For suitable cable glands see Cable Accessories section



Heavy Duty Connectors - Harting - continued

HAN 3A, HAN4A Metal Hood and Base Connector Kits - continued

410621

	Gland Thread	Order Code	1+	Price Each 10+	25+
Hood with Male Insert					
3 way side entry	M20	963-7176●	8.66	8.05	7.70
3 way top entry	M20	963-7168●	6.82	6.33	6.06
4 way side entry	M20	963-7192●	7.79	7.30	6.95
4 way top entry	M20	963-7184●	9.71	9.12	8.76
Straight Bulkhead Base with Female Insert					
3 way metal	N/A	963-7206●	8.84	7.91	7.48
4 way metal	N/A	963-7222●	8.90	8.05	7.56
R/A Bulkhead Base with Female Insert					
3 way straight	N/A	963-7214●	10.25	9.21	8.65
4 way straight	N/A	963-7230●	10.38	9.28	8.78
In-Line Hood with Female Insert					
3 way - PG11	M20	963-7249●	8.98	8.36	7.99
4 way - PG11	M20	963-7257●	9.63	8.99	8.65

HAN 10A, HAN 16A Metal Hood and Base Connector Kits



Pushing Performance



Side Entry Hood with Male Insert



Bulkhead Housing with Female Insert

- Metal housings
- Kits include connector housing and contact insert
- 10 and 16 way HAN A type connector half kits
- Screw cable termination

Note: Cable gland is not included in kit.

Current rating 16A Termination Screw Temperature range -40°C to 125°C
Voltage rating 600V AC Contact resistance 1mΩ

For suitable cable glands see Cable Accessories section

410625

	Gland Thread	Order Code	1+	Price Each 10+	25+
Hood with Male Insert					
10 way side entry	M25	963-7273●	11.00	10.22	9.79
10 way top entry	M25	963-7265●	10.81	10.48	10.16
16 way side entry	M25	963-7303●	19.44	18.09	17.29
Bulkhead Housing with Female Insert					
10 way	N/A	963-7281●	14.89	13.33	12.62
16 way	N/A	963-7311●	19.26	17.91	17.09

HAN6E, HAN10E, HAN16E, HAN24E Metal Hood and Base Connector Kits



Pushing Performance



Side Entry Hood with Male Insert



Top Entry Hood with Male Insert



Bulkhead Housing with Female Insert



Bulkhead Housing with Female Insert

- 6, 10, 16 and 24 way HAN E type connector half kits
- Screw cable termination
- Metal housings
- Kits include connector housing and contact insert

Note: Cable gland is not included in kit.

Current rating 16A Contact resistance 1mΩ
Voltage rating 600V AC Temperature range -40°C to 125°C
Termination Screw

For suitable cable glands see Cable Accessories section

410631

Size	Gland Thread	No. of Ways	Order Code	1+	Price Each 10+	20+
Side Entry Hood with Male Insert						
6E	20	6+PE	963-7362●	9.99	9.33	8.90
10E	25	10+PE	963-7389●	12.18	11.29	10.81
16E	25	16+PE	963-7400●	13.92	12.95	12.36
24E	32	24+PE	963-7427●	17.72	16.48	15.84
Top Entry Hood with Male Insert						
6E	20	6+PE	963-7370●	11.70	10.83	10.38
10E	25	10+PE	963-7397●	11.18	10.42	9.92
16E	25	16+PE	963-7419●	14.62	13.61	13.03
24E	32	24+PE	963-7435●	18.38	17.09	16.34
Bulkhead Housing with Female Insert						
6E	N/A	6+PE	963-7320●	11.79	10.63	10.05
10E	N/A	10+PE	963-7338●	15.78	14.19	13.40
16E	N/A	16+PE	963-7346●	18.12	16.26	15.37
24E	N/A	24+PE	963-7354●	21.79	19.61	18.43
Surface Mount Housing with Female Insert						
6E	20	6+PE	963-7486●	15.91	14.67	14.11
10E	25	10+PE	963-7494●	19.38	17.92	17.06
16E	25	16+PE	963-7508●	20.66	19.20	18.30
24E	32	24+PE	963-7516●	22.74	21.15	20.26
In-Line Hood with Female Insert						
6E	20	6+PE	963-7443●	15.06	14.01	13.34
10E	20	10+PE	963-7451●	16.12	14.93	14.27
16E	25	16+PE	963-7460●	18.76	17.47	16.72
24E	32	24+PE	963-7478●	23.90	22.32	21.34

HAN Industrial Connectors

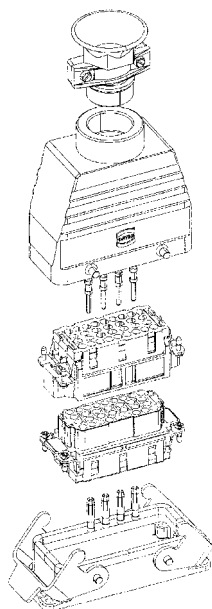


Pushing Performance

Rugged Industrial connectors for use in harsh environments such as the automotive and machine industries, production plants and process and control applications.

A complete connector consists of:

Male insert, female insert, hood, housing, cable gland



227305

Insert HAN 3A, HAN 4A Size 3A



Pushing Performance



Standards	DIN VDE 0627, DIN VDE 0110	Nominal voltage	HAN 3A 230V HAN 4A 230V
Approvals	CSA & SEV. UL Recognised	Environmental protection	3(C)
Current rating	HAN 3A 10A HAN 4A 10A	Insulation resistance	>10 ¹⁰ Ω
No. of ways	HAN 3A 3 + earth HAN 4A 4 + earth	Material insulator	Polycarbonate
		Mating cycles	≥500
		Flammability	UL94V-0
		Temperature range	-40°C to +125°C

230445

No. of Ways	Mfrs. List No.	Order Code	Price Each		
			1+	5+	10+
3	0920 003 2611	314-705 ●	5.06	4.72	4.50
4	0920 004 2611	462-536 ●	5.93	5.47	5.23
Female Insert					
3	0920 003 2711	314-717 ●	5.69	5.31	5.07
4	0920 004 2711	462-548 ●	5.88	5.43	5.19

Han 3A with HARAX® Rapid Termination System



Pushing Performance



A new version of the Han 3A industrial connector incorporating the HARAX rapid termination system. The system uses axial displacement technology to reduce installation time by up to 50%

- Provides full strain relief and IP67 sealing
- Allows retermination to same gauge of cable up to 10 times
- No Special tools required for assembly
- Cable to cable version ideal for fast connection in an industrial environment and is compatible with standard Han 3A connectors

Current rating 10A
Voltage Rating 400V

247681

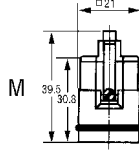
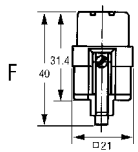
Description	Mfrs. List No.	Order Code	Price Each		
			1+	5+	10+
Male Inserts					
3+E	0920 003 0440	413-1642 ●	9.63	9.09	8.69
Female Inserts					
Cable Connector 3+E	0920 003 0745	413-1666 ●	12.11	11.84	11.70

Han 'Q' Drive Connector



Pushing Performance

5 Way, 16A



- New Han-Drive connector series
- Han Q5/0, designed for standard three phase - motors
- Compact design
- Uses HAN 'E' crimp terminals
- Inserts fit into metal or plastic hoods for Han 3/4A
- IP44

Working current 16A
Working voltage 240V (contact to earth)
400V (contact to contact)
Insulation resistance >10¹⁰ Ohm
Temperature range -40°C to 125°C
Housing polycarbonate
Contacts Copper alloy, hard silver plated
Crimp terminal 2.5 to 0.5mm²

227306

Size	Mfrs. List No.	Order Code	Price Each				
			1+	10+	25+	50+	100+
5 Way + Earth, Han 5Q							
Plug 3A	0912 005 3001	748-432 ●	4.14	3.85	3.70	3.48	3.32
Socket 3A	0912 005 3101	748-444 ●	4.48	4.17	4.00	3.77	3.62

Housings for HAN 3A, HAN 4A, HAN 8D Size 3A



Pushing Performance



Mfrs. List No.	Cable Entry	Thread	Material	Type	Order Code
Hood					
0920 003 1640	side	PG11	Metal	2 pgs	847-239
0920 003 1440	straight	PG11	Metal	2 pgs	314-729
0920 003 0420	straight	PG11	Plastic	2 pgs	151-859

Housing Bulkhead Mounting

0920 003 0301	bottom entry	Metal	1 lever	314-730
0920 003 0820	side entry	Plastic	1 lever	345-4186
0920 003 0320	bottom entry	Plastic	1 lever	151-862

Housing Surface Mounting

0920 003 1250	PG11	Metal	1 lever	345-4204
0920 003 0220	PG11	Plastic	1 lever	345-4198

Housing Screw Mounting

0920 003 0102	PG13.5	Metal	1 lever	345-4162
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227307

Mfrs. List No.	Order Code	Price Each		
		1+	5+	10+
Hood				
0920 003 1640	847-239 ●	4.26	3.93	3.78
0920 003 1440	314-729 ●	2.65	2.48	2.35
0920 003 0420	151-859 ●	2.40	2.24	2.14
Housing Bulk Mounting				
0920 003 0301	314-730 ●	3.09	2.88	2.76
0920 003 0820	345-4186 ●	4.21	3.97	3.81
0920 003 0320	151-862 ●	2.34	2.20	2.10
Housing Surface Mounting				
0920 003 1250	345-4204 ●	5.49	5.34	5.18
0920 003 0220	345-4198 ●	5.66	5.34	5.12
Housing Screw Mounting				
0920 003 0102	345-4162 ●	4.33	4.09	3.91

Hinged Cover



Pushing Performance



- Bulkhead mounting housing
- Fits 3A size modules
- Die cast metal cover
- Lockable with one lever

Material
Flammability
Temperature range
IP Rating

Metal
UL94V-0
-40°C to +125°C
IP67

450159

	Mfrs. List No.	Order Code	Price Each		
			1+	5+	10+
With seal	09200030306	124-3960 ●	13.21	12.45	10.90
Without seal	09200030305	124-3961 ●	12.02	11.35	9.93

Insert HAN 10A - Screw Termination



Pushing Performance



Standards
Approvals
Current rating
No. of ways
Nominal voltage
Environmental protection
Insulation resistance
Material insulator
Mating cycles
Flammability
Temperature range

DIN VDE 0627, DIN VDE 0110
UL, CSA, SEV
10A
10 + earth
230V
3(c)
>10¹⁰Ω
Polycarbonate
≥500
UL94V-0
-40°C to + 125°C

227308

Size	Mfrs. List No.	Order Code	Price Each		
			1+	5+	10+
Male Insert					
10A 0920 010 2612	HAN 10A	659-472 ●	7.09	6.62	6.34
Female Insert					
10A 0920 010 2812	HAN 10A	659-484 ●	7.90	7.36	7.04

Housing for HAN 10A, HAN 15D Size 10A



Pushing Performance



Heavy Duty Connectors - Harting - continued

Housing for HAN 10A, HAN 15D - continued

Size 10A - continued

Mfrs. List No.	Cable Entry	Thread	Material	Type	Order Code
Hood					
0920 010 1541	side	PG16	Metal	2 pegs	462-573
0920 010 1440	straight	PG13.5	Metal	2 pegs	462-585
Housing Bulk Mounting					
0920 010 0301			Metal	1 lever	462-597
0920 010 0321	with plastic cover		Metal	1 lever	345-4216
Housing Surface, 1 Cable Entry					
0920 010 0252		PG21	Metal	1 lever	345-4228
Housing Surface, 2 Cable Entries					
0920 010 0291		PG16	Metal	1 lever	345-4241

227309

Mfrs. List No.	Order Code	1+	Price Each	5+	10+
Hood					
0920 010 1541	462-573●	5.92	5.51	5.27	
0920 010 1440	462-585●	6.78	6.31	6.05	
Housing Bulk Mounting					
0920 010 0301	462-597●	6.13	5.70	5.46	
0920 010 0321	345-4216●	10.84	10.63	10.50	
Housing Surface, 1 Cable Entry					
0920 010 0252	345-4228●	10.30	10.08	9.96	
Housing Surface, 2 Cable Entries					
0920 010 0291	345-4241●	10.91	10.68	10.56	

Inserts HAN16A, HAN32A



Standards Approvals
Current rating
No. of ways
Nominal voltage
Environmental protection
Insulation resistance
Material insulator
Mating cycles
Flammability
Temperature range

**DIN VDE 0627, DIN VDE 0110
UL, CSA, SEV**
HAN 16A 10A HAN 32A 10A
HAN 16A 16 + earth (1-6)
HAN 32A 16 + earth (17-32)
HAN 3A 230V, HAN 4A 230V
3(c)
>10¹⁰Ω
Polycarbonate
≥500
UL94V-0
-40°C to + 125°C

227310

Size	Mfrs. List No.	Type	Order Code	1+	Price Each	5+	10+
Male Insert - Screw Termination							
16A	0920 016 2612	HAN 16A (1-16)	659-496●	9.53	8.87	8.50	
32A	0920 016 2613 00	HAN 16A (17-32)	346-3916●	10.32	10.10	9.99	
Female Insert - Screw Termination							
16A	0920 016 2812	HAN 16A (1-16)	659-502●	11.51	10.73	10.27	
32A	0920 016 2813 00	HAN 16A (17-32)	346-3928●	12.45	12.22	12.11	

Housings for HAN 16A, HAN 32A

Sizes 16A and 32A



Mfrs. List No.	Cable Entry	Thread	Material	Type	Order Code
HAN 16A, Size 16A					
Hood					
0920 016 1541	side	PG16	Metal	2 pegs	847-240
0920 016 1441	straight	PG16	Metal	2 pegs	847-252
Housing Bulk Mount					
0920 016 0301			Metal	1 lever	151-863
0920 016 0321	With Thermoplastic Cover		Metal	1 lever	345-4289
Housing Surface Mount, 1 Cable Entry					
0920 016 0251		PG16	Metal	1 lever	345-4253
0920 016 0252		PG21	Metal	1 lever	345-4265
Housing Surface Mount, 2 Cable Entries					
0920 016 0291		PG16	Metal	1 lever	345-4277

HAN 32A, Size 32A

Mfrs. List No.	Cable Entry	Thread	Material	Type	Order Code
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Mfrs. List No.	Cable Entry	Thread	Material	Type	Order Code
HAN 32A, Size 32A					
Hood					
0920 032 1520	side	PG21	Metal	4 pegs	345-4393
0920 032 0521	side, high constr.	PG29	Metal	4 pegs	345-4381
0920 032 0420	straight high constr	PG21	Metal	4 pegs	345-4356
Housing Bulk Mount					
0920 032 0301			Metal	2 levers	345-4344

227311

Mfrs. List No.	Order Code	1+	Price Each	5+	10+
Hood, Size 16A					
0920 016 1541	847-240●	7.49	6.98	6.69	
0920 016 1441	847-252●	12.53	12.01	11.69	
Housing Bulk Mount, Size 16A					
0920 016 0301	151-863●	8.27	7.69	7.38	
0920 016 0321	345-4289●	13.98	13.15	12.58	
Housing Surface Mount, 1 Cable Entry, Size 16A					
0920 016 0251	345-4253●	12.19	11.46	10.96	
0920 016 0252	345-4265●	12.62	11.86	11.37	
Housing Surface Mount, 2 Cable Entries, Size 16A					
0920 016 0291	345-4277●	14.11	13.41	13.07	
Hood, Size 32A					
0920 032 1520	345-4393●	13.48	12.71	12.27	
0920 032 0521	345-4381●	16.11	15.18	14.66	
0920 032 0420	345-4356●	17.13	16.26	15.85	
Housing Bulk Mount					
0920 032 0301	345-4344●	13.71	12.91	12.35	

Inserts HAN D



Standards Approvals
Current rating
No. of ways
Nominal voltage
Proof voltage
Environmental protection
Insulation resistance
Material insulator
Mating cycles
Flammability
Temperature range

**DIN VDE 0627, DIN VDE 0110
CSA, & SEV. UL Recognised**
10A
7, 15, 25, 40 and 64 + earth
250V
2kV
3(c)
>10¹⁰Ω
Polyamide
≥500
UL94HB
-40°C to + 125°C

To obtain a 80 way version of HAN80D two inserts HAN40D have to be used. HAN 7D will only fit into plastic housings of the size 3A.

227312

Size	Mfrs. List No.	Type	Order Code	1+	Price Each	5+	10+
3A	0921 007 3031	HAN 7D	151-845●	2.56	2.35	2.24	
3A	0936 008 3001	HAN 8D	345-5129●	3.26	3.09	2.95	
10A	0921 015 3001	HAN 15D	462-550●	6.39	5.95	5.70	
16A	0921 025 3001	HAN 25D	151-847●	7.93	7.30	7.00	
16B	0921 040 3001	HAN 40D	151-849●	10.61	9.79	9.35	
24B	0921 064 3001	HAN 64D	151-851●	11.00	10.14	9.70	
3A	0921 007 3131	HAN 7D	151-846●	2.31	2.14	2.04	
3A	0936 008 3101	HAN 8D	345-5117●	3.17	2.99	2.86	
10A	0921 015 3101	HAN 15D	462-561●	7.59	6.99	6.70	
16A	0921 025 3101	HAN 25D	151-848●	7.93	7.30	7.00	
16B	0921 040 3101	HAN 40D	151-850●	10.55	9.74	9.29	
24B	0921 064 3101	HAN 64D	151-852●	11.02	10.16	9.71	

Inserts HAN DD



Standards Approvals
Current rating
No. of ways
Nominal voltage
Proof voltage
Environmental protection
Insulation resistance
Material insulator
Mating cycles
Flammability
Temperature range

**DIN VDE 0627, DIN VDE 0110
CSA, & SEV. UL Recognised**
10A
24, 42, 72(1-72), 108, 144(73-144),
250V
2kV
3(c)
>10¹⁰Ω
Polyamide
≥500
UL94HB
-40°C to + 125°C

227313

Size	Mfrs. List No.	Type	Order Code	1+	Price Each	5+	25+
6B	0916 024 3001	HAN 24DD	462-688●	10.42	9.70		
10B	0916 042 3001	HAN 42DD	462-706●	11.86	10.91		
16B	0916 072 3001	HAN 72DD (1-72)	462-720●	12.59	11.72		
24B	0916 108 3001	HAN 108DD	462-743●	12.94	12.04		
6B	0916 024 3101	HAN 24DD	462-690●	10.42	9.70		
10B	0916 042 3101	HAN 42DD	462-718●	11.86	10.91		
16B	0916 072 3101	HAN 72DD (1-72)	462-731●	13.25	12.86		
24B	0916 108 3101	HAN 108DD	462-755●	12.94	12.04		

Han D/DD Crimp Contacts

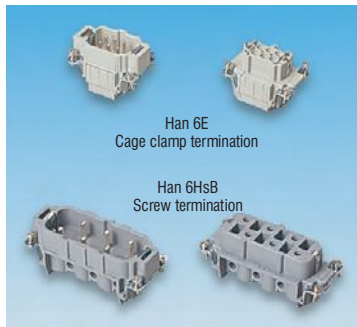


227314

	Wire Size (mm ²)	Order Code	Price Per Pack (10 Pieces)			
Contacts Pin			1+	25+	50+	100+
09 15 000 6104	0.14-0.37	847-495●	5.98	4.98	4.66	4.35
09 15 000 6103	0.5	658-480●	5.63	5.14	5.07	4.20
09 15 000 6105	0.75	345-5920●	5.63	5.14	5.07	4.20
09 15 000 6102	1	151-853●	5.21	4.99	4.89	4.58
09 15 000 6101	1.5	658-492●	5.25	5.02	4.93	4.61
09 15 000 6106	2.5	658-509●	5.91	4.92	4.44	4.20
Contacts Socket						
09 15 000 6204	0.14-0.37	847-501●	6.14	5.12	4.61	4.36
09 15 000 6203	0.5	659-370●	5.63	5.14	5.07	4.25
09 15 000 6205	0.75	345-5932●	5.63	5.14	5.07	4.20
09 15 000 6202	1	151-854●	5.26	5.04	4.94	4.62
09 15 000 6201	1.5	659-381●	5.47	5.22	5.11	4.81
09 15 000 6201	2.5	659-393●	5.96	4.97	4.47	4.25
			Price Each			
Crimp Tool			1+			
09 99 000 0110		728-380	268.28			
Positioner						
09 99 000 0111		151-856	5.73			
Extraction Tool						
09 99 000 0052		151-858	5.37			
09 99 000 0012		336-0465	29.50			

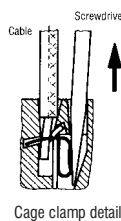
Han 'E', HAN 6SB Heavy Duty Sealed

6, 10, 16, 24 Way (16A) + 6 Way (35A)



Plug insert

Socket insert



A rectangular multipole connector range with a working current of 16 amps @ 380V ac and sealed to IP65. The Han 'E' range feature cage clamp style for fast termination or screw termination. The Han 6HsB version is screw terminated but with an increased current capability of 35A. Approvals, CSA, & SEV. UL Recognised

Contact rating	16A @ 500V ac (Han E)	Housing	Glass Filled Thermoplastic UL listed
	35A @ 500V ac (Han6 HsB)	Contacts	Copper Alloy, hard Silver Plated
Wire size	Han E (cage clamp) 0.14 to 2.5mm ²		
	Han E (screw) 2.5mm ²		

Mfrs. List No.	0933 010 2701=462-639,	0933 016 2601=462-640,	0933 016 2701=462-652,
	0933 006 2601=462-603,	0933 006 2701=462-615,	0933 010 2601=462-627,
	0933 024 2601=462-664,	0933 024 2701=462-676,	0931 006 2601=314-821,
	0931 006 2701=314-833,	0933 006 2616=314-766,	0933 006 2716=314-778,
	0933 010 2616=314-780,	0933 010 2716=314-791,	0933 016 2616=314-808,
	0933 016 2716=314-810,	0933 024 2616=151-843,	0933 024 2716=151-844.

219683

Size	Order Code	1+	10+	25+	50+	100+
Screw Termination						
6 Way + Earth, Han 6E						
Plug 6B	462-603●	5.19	4.85	4.62	4.38	4.18
Socket 6B	462-615●	5.36	5.01	4.78	4.53	4.32
10 Way + Earth, Han 10E						
Plug 10B	462-627●	6.63	6.19	5.91	5.58	5.32
Socket 10B	462-639●	6.64	6.20	5.93	5.59	5.34
16 Way + Earth, Han 16E						
Plug 16B	462-640●	7.96	7.43	7.10	6.70	6.40
Socket 16B	462-652●	8.52	7.93	7.60	7.17	6.89
24 Way + Earth, Han 24E						
Plug 24B	462-664●	10.51	9.79	9.36	8.86	8.46
Socket 24B	462-676●	11.10	10.35	9.89	9.33	8.91
6 Way + Earth, Han 6HsB						
Plug 16B	314-821●	17.31	16.09	15.40	14.54	13.92
Socket 16B	314-833●	19.46	18.10	17.32	16.36	15.66
Cage Clamp Termination						
6 Way + Earth, Han 6E						
Plug 6B	314-766●	6.26	5.88	5.63	5.39	5.17
Socket 6B	314-778●	7.71	7.26	6.95	6.64	6.35
10 Way + Earth, Han 10E						
Plug 10B	314-780●	9.49	8.92	8.56	8.17	7.83
Socket 10B	314-791●	9.94	9.33	8.96	8.56	8.22

Size	Order Code	1+	10+	25+	50+	100+
16 Way + Earth, Han 16E						
Plug 16B	314-808●	11.60	10.93	10.45	10.00	9.57
Socket 16B	314-810●	12.32	11.59	11.10	10.59	10.15
24 Way + Earth, Han 24E						
Plug 24B	151-843●	15.21	14.31	13.70	13.08	12.51
Socket 24B	151-844●	17.03	16.01	15.33	14.65	14.02

HAN E for Crimp Contacts



227316



- Same technical specification as HAN E but for crimp

Mfrs. List No.	No of ways	Size	Order Code	1+	5+	10+
Male Insert						
0933 006 2602	6	6B	345-4083●	4.70	4.46	4.39
0933 016 2602	16	16B	345-4125●	6.08	5.72	5.48
0933 024 2602	24	24B	345-4149●	7.19	6.76	6.48
Female Insert						
0933 006 2702	6	6B	345-4095●	4.47	4.19	4.03
0933 016 2702	16	16B	345-4137●	6.18	5.81	5.57
0933 024 2702	24	24B	345-4150●	8.30	7.87	7.69
Contacts Pin						
0933 000 6121	0.5		847-513●	1.84	1.76	1.74
0933 000 6114 00	0.75		345-5890●	1.84	1.76	1.74
0933 000 6105.	1		847-525●	1.65	1.59	1.57
0933 000 6104	1.5		847-537●	1.65	1.59	1.57
0933 000 6102	2.5		847-549●	1.65	1.59	1.57
0933 000 6107	4		847-550●	1.84	1.76	1.74
Contacts Socket						
0933 000 6220	0.5		847-562●	2.16	2.08	1.96
0933 000 6214 00	0.75		345-5907●	2.03	1.95	1.84
0933 000 6205.	1		847-574●	1.98	1.92	1.81
0933 000 6204	1.5		847-586●	1.98	1.92	1.81
0933 000 6202	2.5		847-598●	1.98	1.92	1.81
0933 000 6207	4		847-604●	2.16	2.08	1.96

Crimp Tool	Order Code	Price Each 1+
0999 000 0110	728-380	268.28
Positioner		
0999 000 0112	847-616	5.48
Extraction Tool		
0999 000 0319	728-408	11.70

Han 'EE' High-Density Crimp



21367



Socket Insert

Plug Insert

- Han 'EE' has a contact density up to twice that of Han 'E'
- Savings in space and assembly costs
- Uses Han 'E' crimp contacts for wire sizes 1.0, 1.5 and 2.5mm²
- Utilises the full range of Harting hoods and housings
- Approvals: UL, CSA and IP65 Rated

Working current	20A	Housing	PolycarbonateUL94V-0
Working voltage	500V	Contacts	Copper Alloy, hard Silver plated
Insulation resistance	>1010Ω	Crimp terminal	0.5 to 4mm ²
Temperature range	-40°C to +125°C		

21367

Size	Mfrs. List No.	Order Code	1+	10+	25+	50+
10 Way + Earth, Han 10EE						
Plug 6B	0932 010 3001	728-421●	9.91	9.23	8.84	8.34
Socket 6B	0932 010 3101	728-433●	10.28	9.58	9.17	8.65
18 Way + Earth, Han 18EE						
Plug 10B	0932 018 3001	728-445●	12.10	11.59	11.39	10.68
Socket 10B	0932 018 3101	728-457●	12.19	11.68	11.47	10.74



Heavy Duty Connectors - Harting - continued

Han 'EE' High-Density Crimp - continued

	Size	Mfrs. List No.	Order Code	1+	10+	25+	50+
32 Way + Earth, Han 32EE							
Plug	16B	0932 032 3001	728-469 ●	13.92	12.96	12.40	11.71
Socket	16B	0932 032 3101	728-470 ●	14.24	13.27	12.68	11.98
46 Way + Earth, Han 46EE							
Plug	24B	0932 046 3001	728-482 ●	17.64	16.88	16.56	15.53
Socket	24B	0932 046 3101	728-494 ●	16.20	15.53	15.21	14.27

Han E/EE Crimp Contacts

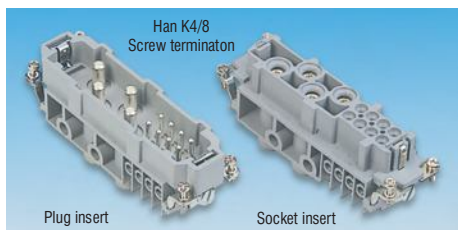


227317

Contacts Pin	Wire Size (mm ²)	Order Code	1+	25+	50+	100+
09 33 000 6121	0.5	847-513 ●	1.84	1.76	1.74	1.62
09 33 000 6114	0.75	345-5890 ●	1.84	1.76	1.74	1.62
09 33 000 6105	1	847-525 ●	1.65	1.59	1.57	1.46
09 33 000 6104	1.5	847-537 ●	1.65	1.59	1.57	1.46
09 33 000 6102	2.5	847-549 ●	1.65	1.59	1.57	1.46
09 33 000 6107	4	847-550 ●	1.84	1.76	1.74	1.62
Contacts Socket						
09 33 000 6220	0.5	847-562 ●	2.16	2.08	1.96	1.85
09 33 000 6214	0.75	345-5907 ●	2.03	1.95	1.84	1.74
09 33 000 6205	1	847-574 ●	1.98	1.92	1.81	1.69
09 33 000 6204	1.5	847-586 ●	1.98	1.92	1.81	1.69
09 33 000 6202	2.5	847-598 ●	1.98	1.92	1.81	1.69
09 33 000 6207	4	847-604 ●	2.16	2.08	1.96	1.85
Crimp Tool						
0999 000 0110		728-380		268.28		
Positioner						
0999 000 0112		847-616		5.48		
Extraction Tool						
0999 000 0319		728-408		11.70		

Han 'K' Heavy Duty Sealed

8/24(16A), 6/12(40A), 4/2, 4/8 Way (80), 6/6 Way (100)



- High power and control/signal connections in one insert
- Screw and crimp terminals
- Space and cost savings
- Inserts fit into standard hoods and housings
- IP65 protection
- Approvals : CSA, UL Recognised

Contact rating	(power)	16A @ 400V ac (8/24) 40A @ 690V ac (6/36) 80A @ 690V ac (4/2) 80A @ 400V ac (4/8) 100A @ 600V ac (6/6) 10A @ 250V ac (6/36, 8/24)
Temperature range		-40°C to +125°C
Wire size	(power)	0.5 to 4.0mm ² (8/24) 1.5 to 6.0mm ² (6/36) 1.5 to 16mm ² (4/2, 4/18) 16 to 35mm ² (6/6)
	(signal)	0.5 to 2.5mm ² (4/2, 4/8, 6/36, 8/24) 0.2 to 2.5mm ² (6/6)

Housing Glass filled thermoplastic UL Listed
Contacts Copper alloy, hard silver plated

Note: Han 6/3 and 8/24 takes crimp contacts, order separately

219715

	Size	Mfrs. List No.	Order Code	1+	10+	25+	50+
Han 4/2 + Earth							
Plug	16B	0938 006 2601	659-411 ●	35.90	33.40	31.95	30.16
Socket	16B	0938 006 2701	659-423 ●	44.28	41.20	39.42	37.20
Han 4/8 + Earth							
Plug	24B	0938 012 2601	659-435 ●	35.93	33.42	31.98	30.20
Socket	24B	0938 012 2701	659-447 ●	44.97	41.86	40.04	37.79

	Size	Mfrs. List No.	Order Code	1+	10+	25+	50+
Han 6/6 + Earth							
Plug	24B	0938 012 2651	659-459 ●	54.97	51.13	48.93	46.83
Socket	24B	0938 012 2751	659-460 ●	66.60	62.09	56.65	49.97
Han K6/3 + Earth							
Plug	16B	0938 042 3001	728-500 ●	25.56	23.86	21.79	19.18
Socket	16B	0938 042 3101	728-512 ●	25.56	23.86	21.79	19.18
Han K8/24 + Earth							
Plug	10B	0938 032 3001	748-419 ●	25.50	23.84	21.74	19.15
Socket	10B	0938 032 3101	748-420 ●	18.21	17.13	16.39	15.67

STAF



Insert	Hood Size	No. of ways
STAF 6	3A	6
STAF 14	10A	14
STAF 20	16A	20

Standards	DIN VDE 0627, DIN VDE 01110	Environmental protection	3(C)
Approvals	CSA, SEV, UL Recognised	Insulation resistance	10 ¹⁰ Ω
No. of ways	6, 14, 20, 40 (2 20)	Material insulator	Polyamide
Current rating	Max. 10A	Flammability	UL94-HB
Nominal voltage	25V AC/60C DC	Mating cycles	≥500
Proof voltage	1.5kV	Temperature range	-40°C to +100°C

227318

					Price Each	
Size	Mftrs. List No.	Type	Order Code	1+	5+	10+
Female Insert Screw Terminal						
3A	0970 006 2616	STAF 6	341-4772●	4.58	4.27	4.09
16A	0970 020 2622	STAF 20	345-5180●	8.85	8.41	8.15
Female Insert Solder Terminal						
3A	0970 006 2615	STAF 6	345-5130●	2.92	2.78	2.68
16A	0970 014 2613	STAF 14	345-5154●	5.16	4.90	4.75
Male Insert Screw Terminal						
3A	0970 006 2813	STAF 6	341-4802●	4.98	4.60	4.43
16A	0970 020 2817	STAF 20	345-5208●	11.01	10.43	10.10
Male Insert Solder Terminal						
3A	0970 006 2812	STAF 6	345-5142●	3.52	3.35	3.24
10A	0970 014 2810	STAF 14	345-5166●	7.21	6.84	6.61
16A	0970 020 2816	STAF 20	345-5191●	8.94	8.48	8.22

Housings for HAN 6E, HAN 10EE, HAN 24DD

Size 6B



Mfrs. List No.	Cable Entry	Thread	Material	Type	Order Code
Hood					
0930 006 1540	Side	PG13.5	Metal	2 pegs	314-845
0930 006 0443	Straight, high constr.	PG29	Metal	2 pegs	345-4423
0930 006 1440	Straight	PG13.5	Metal	2 pegs	462-767
Housing Bulk Mount					
0930 006 0301			Metal	1 lever	314-857
0930 006 0302	With plastic cover		Metal	1 lever	345-4411
Housing Surface Mount, 1 Cable Entry					
0930 006 1251		PG16	Metal	1 lever	659-551
0930 006 1256	With plastic cover	PG16	Metal	1 lever	345-4435
Housing surface Mount, 2 Cable Entries					
0930 006 1296	With plastic cover	PG16	Metal	1 lever	345-4459
Hood Coupler					
0930 006 1750		PG13.5	Metal	1 lever	345-4460
Cover					
0930 006 5427			Metal		345-4472

227319

	Mfrs. List No.	Order Code	1+	5+	10+
Hood					
0930 006 1540		314-845 ●	5.54	5.16	4.93
0930 006 0443		345-4423 ●	10.94	10.29	9.86
0930 006 1440		462-767 ●	6.20	5.76	5.51
Housing Bulk Mount					
0930 006 0301		314-857 ●	6.21	5.78	5.54
0930 006 0302		345-4411 ●	10.63	10.00	9.57

Mftrs. List No.	Order Code	1+	5+	10+
Housing Surface Mount, 1 Cable Entry				
0930 006 1251	659-551●	9.47	8.82	8.45
0930 006 1256	345-4435●	12.90	12.13	11.61
Housing Surface Mount, 2 Cable Entries				
0930 006 1296	345-4459●	13.77	12.96	12.39
Hood Coupler				
0930 006 1750	345-4460●	10.53	9.90	9.47
Cover				
0930 006 5427	345-4472●	9.23	8.70	8.42

Metric Hoods and Housings



Size 6B

- Complies with DIN EN 50262
- Required on new equipment for CE conformance

Mftrs. List No.	Cable Entry	Thread	Material	Type	Order Code
19300061540	Side Entry Low Construction	M20	Metal	2 Pegs	417-6352
19300061440	Top entry Low Construction	M20	Metal	2 Pegs	417-6376
19300061250	Single Entry	M20	Metal	1 Lever	417-6390

246635

Mftrs. List No.	Order Code	1+	5+	10+
Hoods				
19300061540	417-6352●	6.62	6.38	6.20
19300061440	417-6376●	7.62	7.11	6.80
Surface Mount Housing				
19300061250	417-6390●	10.18	9.48	9.07

Housings for HAN 10E, HAN 18EE, HAN 42DD, K10B

Size 10B



Mftrs. List No.	Cable Entry	Thread	Material	Type	Order Code
Hood					
0930 010 1421	Top	PG16	Metal	4 pegs	462-779
0930 010 1521	Side	PG16	Metal	4 pegs	101-521
0930 010 1541	Side	PG16	Metal	2 pegs	345-4629
0930 010 0542	Side, high constr.	PG21	Metal	2 pegs	345-4538
0930 010 0423	Top, high constr.	PG29	Metal	4 pegs	345-4514
0930 010 0422	Top, high constr.	PG21	Metal	4 pegs	345-4526
0930 010 1431	Top	PG16	Metal	2 levers	345-4605
Housing Bulk Mount					
0930 010 0301	With plastic cover		Metal	2 levers	100-301
0930 010 0303			Metal	1 levers	345-4496
0930 010 0305			Metal	1 lever	345-4502

227320

Mftrs. List No.	Order Code	1+	5+	10+
Hood				
0930 010 1421	462-779●	7.36	6.87	6.57
0930 010 1521	101-521●	7.10	6.62	6.34
0930 010 1541	345-4629●	8.02	7.56	7.23
0930 010 0542	345-4538●	13.88	13.08	12.50
0930 010 0423	345-4514●	13.10	12.32	11.79
0930 010 0422	345-4526●	11.12	10.36	9.91
0930 010 1431	345-4605●	9.91	9.32	8.92
Housing Bulk Mount				
0930 010 0301	100-301●	9.29	8.65	8.28
0930 010 0303	345-4496●	13.48	12.69	12.14
0930 010 0305	345-4502●	10.86	10.23	9.79
Housing Surface Mount, 1 Cable Entry				
0930 010 1231	659-563●	13.35	12.43	11.88
0930 010 1251	345-4563●	14.63	13.78	13.18
Housing Surface Mount, 2 Cable Entries				
0930 010 1271	345-4575●	14.03	13.22	12.64

Metric Hoods and Housings



Size 10B

- Complies with DIN EN 50262
- Required on new equipment for CE conformance

Mftrs. List No.	Cable Entry	Thread	Material	Type	Order Code
Hood					
19300100527	Side Entry High Construction	M32	Metal	4 Pegs	417-6418
19300101420	Top entry Low Construction	M20	Metal	4 Pegs	417-6420
19300101230	Single Entry	M20	Metal	2 Levers	417-6443

246644

Mftrs. List No.	Order Code	1+	5+	10+
Hoods				
19300100527	417-6418●	10.94	10.19	9.74
19300101420	417-6420●	7.86	7.59	7.36
Surface Mount Housing				
19300101230	417-6443●	13.85	12.90	12.34

Housings for HAN 16E, 32EE, HSB, K16B, 40D

Size 16B



Mftrs. List No.	Cable Entry	Thread	Material	Type	Order Code
Hood					
0930 016 1520	side	PG21	Metal	4 pegs	161-520
0930 016 0540	side, high constr.	PG21	Metal	2 pegs	345-4691
0930 016 0440	straight, high constr.	PG21	Metal	2 pegs	345-4680
0930 016 1430	straight	PG21	Metal	2 levers	345-4769
0930 016 1530	side	PG21	Metal	2 levers	345-4770
0930 016 1540	side	PG21	Metal	2 pegs	345-4782
0930 016 0420	straight, high constr.	PG21	Metal	4 pegs	462-780
0930 016 0521	side, high constr.	PG29	Metal	4 pegs	152-003
Housing Bulk Mount					
0930 016 0301			Metal	2 levers	160-301
0930 016 0302	with plastic cover		Metal	4 pegs, no lever	345-4654
0930 016 0306	with plastic cover		Metal	1 lever	345-4666
0930 016 0307			Metal	1 lever	345-4678

227321

Mftrs. List No.	Order Code	1+	5+	10+
Hood				
0930 016 1520	161-520●	8.04	7.50	7.18
0930 016 0540	345-4691●	15.42	14.50	13.88
0930 016 0440	345-4680●	16.20	15.25	14.60
0930 016 1430	345-4769●	12.18	11.56	11.25
0930 016 1530	345-4770●	11.26	10.60	10.15
0930 016 1540	345-4782●	8.37	7.89	7.56
0930 016 0420	462-780●	12.36	11.50	11.01
0930 016 0521	152-003●	13.32	12.39	11.85
Housings Bulk Mount				
0930 016 0301	160-301●	9.79	9.12	8.72
0930 016 0302	345-4654●	12.94	12.18	11.66
0930 016 0306	345-4666●	15.47	14.56	13.95
0930 016 0307	345-4678●	11.33	10.66	10.21
Housing Surface Mount, 1 Cable Entry				
0930 016 1250	345-4721●	14.89	14.01	13.40
0930 016 1220	345-4710●	15.78	14.85	14.19
0930 016 1230	659-575●	13.99	13.02	12.46
Housing Surface Mount, 2 Cable Entries				
0930 016 1270	345-4745●	15.05	14.16	13.57
Hoods Coupler				
0930 016 1730	345-4794●	13.44	12.76	12.44
0930 016 0731	345-4708●	18.90	17.78	17.03



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Heavy Duty Connectors - Harting - continued

Metric Hoods and Housings



Pushing Performance

Size 16B

- Complies with **DIN EN 50262**
- Required on new equipment for CE conformance

Mfrs. List No.	Cable Entry	Thread	Material	Type	Order Code
Hood					
19300161521	Side Entry Low Construction	M25	Metal	4 Pegs	417-6467
19300160527	Side Entry High Construction	M32	Metal	4 Pegs	417-6479
19300161421	Top entry Low Construction	M25	Metal	4 Pegs	417-6480
19300160427	Top Entry Low Construction	M32	Metal	4 Pegs	417-6492
19300161231	Surface Hsng Single Entry	M25	Metal	2 Levers	417-6522

246646

Mfrs. List No.	Order Code	1 +	Price Each 5 +	10 +
Hoods				
19300161521	417-6467●	8.10	7.54	7.22
19300160527	417-6479●	12.11	11.29	10.79
19300161421	417-6480●	8.85	8.54	8.28
19300160427	417-6492●	11.32	10.53	10.07
Surface Mount Housing				
19300161231	417-6522●	14.16	13.18	12.62

Housings for HAN 24E, 46EE, 108DD, 64D, K24B

Size 24B



Pushing Performance



Mfrs. List No.	Cable Entry	Thread	Material	Type	Order Code
Hood					
0930 024 1520	side	PG21	Metal	4 pegs	151-861
0930 024 0421	straight, high constr.	PG29	Metal	4 pegs	462-792
0930 024 0521	side, high constr.	PG29	Metal	4 pegs	152-004
0930 024 1421	straight	PG29	Metal	4 Pegs	462-809
0930 024 0440	straight, high constr.	PG21	Metal	2 Pegs	345-4848
0930 024 0540	side, high constr.	PG21	Metal	2 Pegs	345-4850
0930 024 1431	straight	PG29	Metal	2 Levers	345-4939
0930 024 1530	side	PG21	Metal	2 Levers	345-4940
0930 024 1540	side	PG21	Metal	2 pegs	345-4952
Housing Bulkhead Mount					
0930 024 0301			Metal	2 levers	151-864
0930 024 0304	with plastic cover		Metal	1 lever	345-4812
0930 024 0307			Metal	1 lever	345-4824

Housing Surface Mount, 1 Cable Entry

Mfrs. List No.	Cable Entry	Thread	Material	Type	Order Code
0930 024 1230		PG21	Metal	2 levers	659-587
0930 024 1220	with plastic cover	PG21	Metal	2 pegs, no lever	345-4885
0930 024 1250		PG21	Metal	1 lever	345-4897

Housing Surface Mount, 2 Cable Entries

Mfrs. List No.	Cable Entry	Thread	Material	Type	Order Code
0930 024 1270		PG21	Metal	2 levers	345-4915
Hood Coupler - Cable to Cable					
0930 024 0730	straight, high constr.	PG21	Metal	2 levers	345-4861

227322

Mfrs. List No.	Order Code	1 +	Price Each 5 +	10 +
Hood				
0930 024 1520	151-861●	9.05	8.42	8.05
0930 024 0421	462-792●	15.79	14.85	14.22
0930 024 0521	152-004●	15.67	14.58	13.94
0930 024 1421	462-809●	9.59	8.92	8.55
0930 024 0440	345-4848●	17.79	16.75	16.02
0930 024 0540	345-4850●	15.68	14.76	14.12
0930 024 1431	345-4939●	13.09	12.34	11.79
0930 024 1530	345-4940●	12.44	11.71	11.21
0930 024 1540	345-4952●	10.05	9.46	9.06
Housing Bulkhead Mount				
0930 024 0301	151-864●	10.56	9.85	9.40
0930 024 0304	345-4812●	17.25	16.23	15.54
0930 024 0307	345-4824●	11.09	10.43	9.99
Housing Surface Mount, 1 Cable Entry				
0930 024 1230	659-587●	17.07	15.88	15.20
0930 024 1220	345-4885●	17.20	16.19	15.64
0930 024 1250	345-4897●	16.93	15.92	15.24
Housing Surface Mount, 2 Cable Entry				
0930 024 1270	345-4915●	17.19	16.16	15.48
Hood Coupler - Cable to Cable				
0930 024 0730	345-4861●	19.93	18.76	18.10

Metric Hoods



Pushing Performance

Size 24B

- Complies with **DIN EN 50262**
- Required on new equipment for CE conformance

Mfrs. List No.	Cable Entry	Thread	Material	Type	Order Code
Hood					
19300241521	Side Entry Low Construction	M25	Metal	4 Pegs	417-6534
19300240527	Side Entry High construction	M32	Metal	4 Pegs	417-6546

246650

Mfrs. List No.	Order Code	1 +	Price Each 5 +	10 +
Hoods				
19300241521	417-6534●	9.16	8.53	8.14
19300240527	417-6546●	13.91	12.97	12.39

Housings for HAN 80D and HAN 144D

Size 32B



Pushing Performance



Mfrs. List No.	Cable Entry	Thread	Material	Type	Order Code
Hood					
0930 032 0521	side	PG29	Metal	4 pegs	345-5014
0930 032 0421	straight	PG29	Metal	4 pegs	345-5002

227323

Mfrs. List No.	Order Code	1 +	Price Each 5 +	10 +
Hood				
0930 032 0521	345-5014●	35.17	33.07	31.65
0930 032 0421	345-5002●	36.53	34.33	32.89

Han Heavy-Duty Hood and Housings



Pushing Performance



- EMC protection is equal to that of double-screened cable
- Ideally suited to use with data signals in industrial control applications/electrically harsh environments
- Easily used for the replacement or upgrade of existing installations

The Han-EMC range of heavy-duty connector hoods and housings from Harting provide a typical EMC shielding efficiency of between -70dB and -80dB over the frequency range from dc to 1 Mhz. The products feature a conductive surface treatment and a range of compatible glands are also available for the termination of cable screening. Four different sizes allow the hoods and housings to be used with the HAN D, DD, E, EE, HSB, K, EAV, DAV and modular connector inserts. Their compatibility with standard designs means that they can be used easily for the replacement or upgrade of existing installations.

213763

Side Entry	Mfrs. List No.	Order Code	1 +	Price Each 10 +	25 +	50 +
10B PG21	0962 010 0541	110-6822●	35.02	32.59	31.17	29.42

Covers with Retaining Strap



Pushing Performance



- Die cast metal covers for housings
- Fits chassis and surface housings
- Provides **IP65** protection when fitted
- Prevents corrosion and connector damage
- Used when connector not engaged

219716

For Housing	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
314-857, 659-551	0930 006 5425	659-514 ●	7.20	6.77	6.51	6.24	5.99
100-301, 659-563	0930 010 5425	659-526 ●	8.49	7.99	7.67	7.34	7.05
160-301, 659-575	0930 016 5425	659-538 ●	11.02	10.36	9.93	9.53	9.15
151-864, 659-587	0930 024 5425	659-540 ●	13.49	12.71	12.16	11.63	11.12

Han Cable Seals and Strain Reliefs



- Bell-mouth metal strain relief
- Fits 'Han' hoods above
- Multiple knockout rubber seals

- IP65 protection
- Han 7D sealing kit supplied with plastic locknut as standard

Note: The strain relief and sealing kit require the same Pg number as the hood to fit correctly.

Mfrs. List No. 0900 000 5101=314-742, 0900 000 5102=314-869, 0900 000 5103=314-870,
0900 000 5104=314-882, 0900 000 5106=152-005, 0900 000 5027=314-754,
0900 000 5164=151-865, 0900 000 5029=314-900,

208996

Connector type	Thread	Order Code	1+	10+	25+	50+	100+
Strain Relief							
HAN 3A, 4A	PG11	314-742 ●	2.90	2.73	2.61	2.47	2.36
HAN 6E, 24DD	PG13.5	314-869 ●	3.14	2.93	2.80	2.69	2.57
HAN 10E, 15D, 42DD	PG16	314-870 ●	3.24	3.03	2.91	2.80	2.68
HAN 16E, 24E, 6HSB	PG21	314-882 ●	4.75	4.44	4.25	4.00	3.83
25D, 72DD, 108DD							
HAN 40D, 64D, 108DD	PG29	152-005 ●	5.33	4.96	4.75	4.51	4.31
Sealing Kit							
HAN 3A, 4A	PG11	314-754 ●	0.49	0.46	0.45	0.44	0.41
HAN 7D	PG11	151-865 ●	0.71	0.67	0.59	0.53	0.51
(includes locknut)							
HAN 10E, 15D, 42DD	PG16	314-900 ●	0.68	0.63	0.61	0.59	0.56

Cable Protection



Cable Clamps



- These cable clamps should be used in connection with Han EMC hoods if the galvanic connection between the screened wiring and the hoods potential must be connected

213766

Thread Size	Cable Ø	Mfrs. List No.	Order Code	1+	10+	25+	50+
Metal							
M20	14	19000005050	124-5204 ●	2.74	2.63	2.38	2.16
M25	20	19000005051	124-5205 ●	3.44	3.29	2.98	2.70
M32	25	19000005052	124-5206 ●	8.05	7.72	7.01	6.36
Black							
M20	14	19000005155	124-5207 ●	1.15	1.09	0.98	0.89
M25	20	19000005156	124-5208 ●	1.62	1.55	1.42	1.28
Grey							
M20	14	19000005150	124-5210 ●	1.15	1.09	0.98	0.89
M25	20	19000005151	124-5212 ●	1.62	1.55	1.42	1.28
M32	25	19000005152	124-5213 ●	2.99	2.86	2.61	2.35

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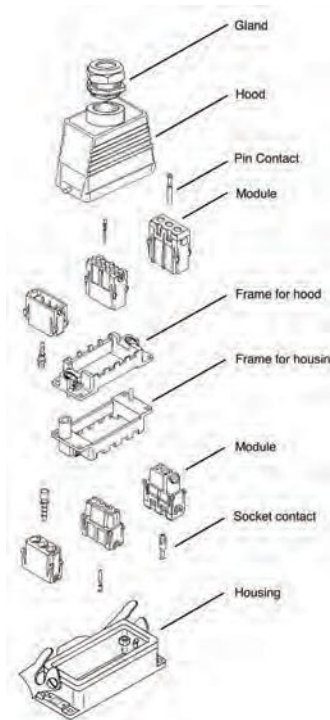


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HAN Modular



The Han-Modular series is a new system of inserts designed to meet the specific requirements of individual customers. A range of modular inserts have been developed allowing the simple assembly of custom designed complete connectors

227325

HAN Modular



14



Survey	Suitable Housing Size	Survey	Survey	Survey	
1. Frames	10A	2 Modules	6B 4 Modules	16B 2 4 Modules	24B
1 Module		3 Modules	10B 6 Modules	32B 2 6 Modules	48B
2. Modules					
Type	Medium	Termination	Current (A)	Voltage (V)	
HAN Axial Screw Module	Electric	Screw	100	1000	
HAN Axial Screw Module	Electric	Screw	40	1000	
HAN C Module	Electric	Crimp	40	400/690	
HAN E Module	Electric	Crimp	16	500	
HAN EE Module	Electric	Crimp	16	400	
HAN ES Module	Electric	Cage Clamp	16	400	
HAN DD Module	Electric	Crimp	10	250	
HAN Multi Contact Module	Electric	Crimp/Solder	1.5	50 (Coaxial)	
				1000 (High Voltage)	
HAN Quintax	Electric	Crimp	10	42	
HAN Pneumatic Module	Air	Plug	8 bar	Hose	
				1.6;3.0;4.0;6.0mm	

227326

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Heavy Duty Connectors - Harting - continued

Frame
1 Module

- Grounding system according to **DIN-VDE**
- Rigid Zamac-diecast
- Both male and female modules can be mounted in this frame
- Frame suitable for hood and housing

Standards **DIN VDE 0627, DIN VDE 0110**
 Approvals **CSA, UL** Recognised
 Material Zamac
 Temperature range -40°C to +125°C



227327

Mfrs. List No.	No. of Modules	Order Code	1+	5+	10+
0914 000 0304	1	345-5257●	6.98	6.36	6.08

Hinged Frame



- Grounding according to **DIN-VDE**
- Rigid Zamac-diecast
- Both male and female modules can be combined in one frame
- Hinged frame are suitable for standard housings
- Modules removable without extraction tool
- Vibration proof improved mechanical lock of modules

Standards **DIN VDE 0627, DIN VDE 0110**
 Approvals **CSA, UL** Recognised
 Number of Modules 2, 3, 4, 6
 Material Zamac
 Temperature range -40°C to +125°C



227328

Mfrs. List No.	No. of Modules	Order Code	1+	5+	10+
Frame for Hood					
0914 006 0303	2	332-9768●	11.52	10.73	10.26
0914 010 0303	3	332-9781●	11.50	10.70	10.24
0914 016 0303	4	332-9800●	11.42	10.72	10.27
0914 024 0303	6	332-9823●	11.53	10.84	10.40
Frame for Housing					
0914 006 0313	2	332-9770●	11.52	10.73	10.26
0914 010 0313	3	332-9793●	11.57	10.77	10.30
0914 016 0313	4	332-9811●	11.42	10.72	10.27
0914 024 0313	6	332-9835●	11.50	10.81	10.36

HAN Axial Screw Module 100A



- 2 contacts 100A for power circuits
- Male insert with additional protective collar
- Axial screw termination for wire sizes of 16 to 35mm² can be combined with all HAN modules
- Polarisation
- Connect PE-Kontakt only with special cable shoe

Standards **DIN VDE 0627, DIN VDE 0110**

Inserts
 Number of ways 2
 Current rating 100A
 Nominal voltage 1000V
 Proof voltage 4kV
 Environmental category 3CC>
 Insulation resistance 10000MΩ
 Material Polycarbonate

Contacts
 Mating cycles ≥500
 Temperature min. -40°C
 Temperature max. 125°C
 Material Copper Alloy
 Contact plating Silver30µAg
 Contact resistance ≤0.3mΩ
 Wire Size min. 16mm2
 Wire Size max. 35mm2



227329

	Mfrs. List No.	Order Code	1+	10+	25+
Male Insert	0914 002 2651	345-3870●	14.58	13.74	13.14
Female Insert	0914 002 2751	345-3881●	16.53	15.56	14.90
Cable Shoe	0914 000 9912	345-4010●	3.73	3.51	3.37

HAN Axial Screw Module 40A



- 2 contacts 40A for power circuits
- Insert with additional protective shroud
- Polarisation
- Axial screw termination
- Only for use with hinged frame
- Max. wire size 10.5mm

Standards **DIN VDE 0627, DIN VDE 0110**

Insert
 Number of ways 2
 current rating 40A
 Nominal voltage 1000V
 Proof voltage 4kV
 Environmental protection 3(C)
 Insulation resistance ≥10¹⁰Ω
 Material Polycarbonate

Flammability **UL94V-0**
 Mating cycles ≥500
 Temperature range -40°C to +125°C

Contact
 Material Copper Alloy
 Plating Silver 30µmm² Ag
 Contact resistance ≤0.5Ω
 Termination 2.5-10mm² (14-8 AWG)

227330

	Mfrs. List No.	Order Code	1+	5+	10+
Male Insert	0914 002 2601	345-4022●	6.35	5.98	5.72
Female Insert	0914 002 2701	345-4034●	7.48	7.07	6.76

HAN C Module



- 3 contacts 40A for power circuits
- Male insert with additional protective shroud
- Polarisation
- Crimp-termination
- Male and Female inserts can be combined in one frame

Standards: **DIN VDE 0627, DIN VDE 0110**
 Approvals: **CSA, UL** Recognised



227331

Mfrs. List No.	Cable 	Order Code	1 +	Price Each		
				5 +	10 +	
Male Insert						
0914 003 3001	5mm	728-093 	3.22	3.00	2.88	
0914 003 3002	7.5mm	345-5269 	2.91	2.74	2.62	
Female Insert						
0914 003 3101	5mm	728-100 	3.22	3.00	2.88	
0914 003 3102	7.5mm	345-5270 	2.91	2.74	2.62	
	Wire Size mm ²		1 +	Price Per Pack (10 Pieces)		
				10 +	25 +	50 +
Crimp Contacts Pin						
0932 000 6104	1.5	335-4350 	12.55	11.74	10.75	9.38
0932 000 6105	2.5	335-4362 	13.59	12.71	11.64	10.16
0932 000 6107	4.0	728-160 	13.66	12.77	11.70	10.20
0932 000 6108	6.0	728-172 	12.71	11.89	10.88	9.49
Crimp Contacts Socket						
0932 000 6204	1.5	335-4374 	35.07	29.20	26.39	26.39
0932 000 6205	2.5	335-4386 	35.07	29.20	26.38	26.38
0932 000 6207	4.0	728-184 	36.90	34.50	31.00	29.50
0932 000 6208	6.0	728-196 	35.07	32.83	29.80	26.09
Crimp Tool			Price Each			
0999 000 0303		728-354	174.81			
Positioner						
0999 000 0112.		847-616	5.48			
Extraction Tool						
0999 000 0305		728-378	7.29			

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HAN C Axial Screw Module



Insert	
Number of ways	3
Current rating	40A
Nominal voltage	690V
Environmental protection	3(C)
Insulation resistance	$\geq 10^{10}\Omega$
Material	Polycarbonate

● Compatible with the Han C-module with crimp terminal	
● Can be combined with all HAN modules	
● Suitable for all HAN B hoods and housings as well as HAN Modular Compact hoods and housings (high construction)	
Flammability	UL94V-0
Mating cycles	≥ 500
Temperature range	-40°C to +125°C
Contact	
Material	Copper Alloy
Plating	Silver 30µmm ² Ag
Contact resistance	$\leq 0.5\Omega$

450157

	Wire Size mm ²	Mftrs. List No.	Order Code	1+	5+	10+
Male Insert	2.5-8	09140032601	124-3956●	10.28	9.70	8.50
Female Insert	2.5-8	09140032701	124-3957●	12.23	11.55	10.09
Male Insert	6-10	09140032602	124-3958●	10.61	10.00	8.75
Female Insert	6-10	09140032702	124-3959●	12.62	11.89	10.42

HAN CC Protected Module



Number of ways	4
Current rating	40A
Nominal voltage	830V
Insulation resistance	$\geq 10^{10}\Omega$

- Finger protected male and female contacts
- Suitable for high working voltage of 830V
- Suitable for all HAN B hoods and housings as well as HAN Modular Compact hoods and housings (except for HAN 6 low construction)

Material	Polycarbonate
Flammability	UL94V-0
Mating cycles	≥ 500
Temperature range	-40°C to +125°C

450151

	Mftrs. List No.	Order Code	1+	5+	10+
Male Insert	09140043041	124-3952●	3.43	3.22	2.81
Female Insert	09140043141	124-3953●	3.43	3.22	2.81

HAN E Module



- 6 contacts 16A for power circuits
- Male insert with additional protective shroud
- Polarisation
- Crimp termination
- Male and female inserts can be combined in one frame

Standards: DIN VDE 0627, DIN VDE 0110
Approvals: CSA, UL Recognised

Insert	
Number of ways	6
current rating	16A
Nominal voltage	500V
Proof voltage	3kV
Environmental protection	3(C)
Insulation resistance	$\geq 10^{10}\Omega$
Material	Polycarbonate
Flammability	UL94V-0
Mating cycles	≥ 500
Temperature range	-40°C to +125°C
Contact	
Material	Copper Alloy
Plating	Silver 3µmm ² Ag
Contact resistance	$\leq 0.3\Omega$
Termination	0.5-4.0mm ² (20-12AWG)

227332

Mftrs. List No.	Order Code	1+	5+	10+
Male Insert				
0914 006 3001	728-111●	3.31	3.10	2.97
Female Insert				
0914 006 3101	728-123●	3.31	3.10	2.97
			Price Per Pack (10 Pieces)	
		1+	25+	50+
Crimp Contacts Pin				
0933 000 6121	847-513●	1.84	1.76	1.74
0933 000 6114 00	345-5890●	1.84	1.76	1.74
0933 000 6105	847-525●	1.65	1.59	1.57
0933 000 6104	847-537●	1.65	1.59	1.57
0933 000 6102	847-549●	1.65	1.59	1.57
0933 000 6107	847-550●	1.84	1.76	1.74

			Price Each		
Crimp Contacts Socket					
0933 000 6220	0.5	847-562●	2.16	2.08	1.96
0933 000 6214 00	0.75	345-5907●	2.03	1.95	1.84
0933 000 6205	1.0	847-574●	1.98	1.92	1.81
0933 000 6204	1.5	847-586●	1.98	1.92	1.81
0933 000 6202	2.5	847-598●	1.98	1.92	1.81
0933 000 6207	4.0	847-604●	2.16	2.08	1.96
Crimp Tool					
0999 000 0110		728-380			268.28
Positioner					
0999000112		847-616			5.48
Extraction Tool					
0999 000 0319		728-408			11.70

HAN E Protected Module



- Finger protected male and female contacts
- Suitable for high working voltage of 830V
- Can be combined with all HAN modules
- Suitable for all HAN B hoods and housings as well as HAN Modular Compact hoods and housings (except for HAN 6 low construction)

Number of ways	6
Current rating	16A
Nominal voltage	830V
Insulation resistance	$\geq 10^{10}\Omega$
Material	Polycarbonate
Flammability	UL94V-0
Mating cycles	≥ 500
Temperature range	-40°C to +125°C

450150

	Mftrs. List No.	Order Code	1+	5+	10+
Male Insert	09140063041	124-3946●	3.43	3.22	2.81
Female Insert	09140063141	124-3947●	3.43	3.22	2.81

HAN EEE Module



- Compatible with all hoods, style HAN B
- 66% higher contact density compared to HAN E modules

Crimp pins and sockets are not supplied with these products, please see Order Codes 847513 and 847562

Number of ways	20
Current rating	16A
Nominal voltage	500V
Insulation resistance	$\geq 10^{10}\Omega$
Material	Polycarbonate
Flammability	UL94V-0
Mating cycles	≥ 500
Temperature range	-40°C to +125°C

450152

	Mftrs. List No.	Order Code	1+	5+	10+
Male Insert	09140203001	124-3954●	7.86	7.42	6.50
Female Insert	09140203101	124-3955●	7.86	7.42	6.50

HAN EE Module



- Polarisation
- Crimp-termination
- 8 contacts 16A for power circuits
- Male insert with additional protective shroud
- Combination of male and female inserts in one frame possible

Standards: DIN VDE 0627, DIN VDE 0110
Approvals: CSA, UL Recognised

Inserts	
No. of ways	8
Current rating	16
Nominal voltage	400V
Proof voltage	3kV
Environmental protection	3 (C)
Insulation resistance	$\geq 10000\Omega$
Material	Polycarbonate
Flammability	UL94V-0
Temperature range	≥ 500 -40°C to +125°C
Contacts	
Material	Copper Alloy
Plating	Silver
Contact resistance	$\leq 1\Omega$
Termination	0.5



Heavy Duty Connectors - Harting - continued

HAN EE Module - continued

227340

Mfrs. List No.	Order Code	1+	5+	10+
Male Insert				
0914 008 3001	345-3911●	2.57	2.42	2.36
Female Insert				
0914 008 3101	345-3923●	2.43	2.31	2.20
			Price Per Pack (10 Pieces)	
			25+	50+
			100+	
Crimp Contact Pin				
0933 000 6121	847-513●	1.84	1.76	1.74
0933 000 6114 00	345-5890●	1.84	1.76	1.74
0933 000 6105	847-525●	1.65	1.59	1.57
0933 000 6104	847-537●	1.65	1.59	1.57
0933 000 6102	847-549●	1.65	1.59	1.57
0933 000 6107	847-550●	1.84	1.76	1.74
Crimp Contact Socket				
0933 000 6220	847-562●	2.16	2.08	1.96
0933 000 6214 00	345-5907●	2.03	1.95	1.84
0933 000 6205	847-574●	1.98	1.92	1.81
0933 000 6204	847-586●	1.98	1.92	1.81
0933 000 6202	847-598●	1.98	1.92	1.81
0933 000 6207	847-604●	2.16	2.08	1.96
Crimp Tool			Price Each	
0999 000 0110	728-380		268.28	
Positioner				
0999 000 0112	847-616		5.48	
Extraction Tool				
0999 000 0319	728-408		11.70	

HAN DD Module



Pushing Performance



- 12 contact silos for population with signal contacts 10A
- Male insert with additional protective shroud
- Polarisation
- Crimp-termination
- Male and female inserts can be combined in one frame

Standards: **DIN VDE 0627, DIN VDE 0110**
 Approvals: **CSA, Recognised**

Insert			
Number of ways	12	Mating cycles	≥500
Current rating	10A	Temperature range	-40°C to +125°C
Nominal voltage	250V	Contact	
Proof voltage	2kV	Material	Copper Alloy
Environmental protection	3(C)	Plating	Silver 3µm ² Ag
Insulation resistance	≥10 ¹⁰ Ω	Contact resistance	≤32Ω
Material	Polycarbonate	Termination	0.14-2.5mm ² (26-14AWG)
Flammability	UL94V-0		

227333

Mfrs. List No.	Order Code	1+	5+	10+
Male Insert				
0914 012 3001	728-135●	2.24	2.11	2.01
Female Insert				
0914 012 3101	728-147●	2.27	2.13	2.03
			Price Per Pack (10 Pieces)	
			25+	50+
			100+	
Crimp Contacts Pin				
0915 000 6104	847-495●	5.98	4.98	4.66
6615 000 6103 91	658-480●	5.63	5.14	5.07
0915 000 0105 00	345-5920●	5.63	5.14	5.07
0915 000 6102	151-853●	5.21	4.99	4.89
6615 000 6101 91	658-492●	5.25	5.02	4.93
0915 000 6106	658-509●	5.91	4.92	4.44
Crimp Contacts Socket			Price Per Pack (10 Pieces)	
0915 000 6204	847-501●	6.14	5.12	4.61
0915 000 6203	659-370●	5.63	5.14	5.07
0915 000 6205 00	345-5932●	5.63	5.14	5.07
0915 000 6202	151-854●	5.26	5.04	4.94
6615 000 6201 91	659-381●	5.47	5.22	5.11
0915 000 6206	659-393●	5.96	4.97	4.47
Crimp Tool			Price Each	
0999 000 0110	728-380		268.28	
Positioner				
0999 000 0111	151-856		5.73	
Extraction Tool				
0999 000 0319	standard	728-408	11.70	
0999 000 0012	with central rod	336-0465	29.50	

HAN DDD Module



Pushing Performance



- High contact density
- Can be combined with all HAN modules
- Suitable for all HAN B hoods and housings as well as HAN Modular Compact hoods and housings

Number of ways	17	Material	Polycarbonate
Current rating	10A	Flammability	UL94V-0
Nominal voltage	160V	Mating cycles	≥500
Insulation resistance	≥10 ¹⁰ Ω	Temperature range	-40°C to +125°C

450141

Mfrs. List No.	Order Code	1+	5+	10+
Male Insert	09140173001	124-3944●	2.46	2.33
Female Insert	09140173101	124-3945●	2.46	2.33

HAN Multicontact Module



Pushing Performance



- 4 contact silos for population with coaxial and high voltage contacts
- Male insert with additional protective shroud
- Polarisation
- Male and female inserts can be combined in one frame

Standards: **DIN VDE 0627, DIN VDE 0110**
 Approvals: **CSA UL Recognised**

Possible contact arrangements

	Male Insert	Female Insert
Contacts	09 14 004 4501	09 14 004 4512
Coaxial	Socket Contacts	Pin Contacts
High voltage	Socket Contacts	Pin Contacts
Coaxial Cable		
	Insulation	Center Conductor
	Ømm	Ømm
Cable type		
50Ω		
RG 174 /U	2.5	0.48
RG 188 A/U	2.5	0.54
RG 316 /U	2.5	0.54
75Ω		
RG 179 B/U	2.55	0.3
RG 187 A/U	2.7	0.3
Male Inserts		
No. of ways	4	Contact resistance
Environmental protection	3(C)	Centre
Insulation resistance	≥10 ¹⁰ Ω	Outside
Material	polycarbonate	Current rating
Flammability	UL94V-0	Nominal voltage
Mating cycles	≥500	High Voltage Contacts
Temperature range	-40°C to +125°C	Material
Coaxial Contacts		Plating
Material	Copper alloy	contact resistance
Plating	Gold 2.5µm/0.8µm over 4µm Ni	Current rating
	50Ω/75Ω	Nominal voltage
Impedance		

227334

Mfrs. List No.	Order Code	1+	5+	10+
Male Insert				
09140044501	854-451●	1.61	1.52	1.45
Female Insert				
09140044512	854-463●	2.46	2.31	2.20
Coaxial Contact Pin				
		1+	25+	50+
0914 000 6111 00	50Ω	345-8337●	8.19	7.17
0914 000 6121 00	75Ω	345-8349●	8.18	7.91
Coaxial Contact Socket				
0914 000 6211 00	50Ω	345-8350●	7.56	6.60
0914 000 6221 00	75Ω	345-8362●	8.60	8.27
High Voltage Contacts				
09030006140	Pin	114-2815●	6.05	5.63
09030006240	Socket	110-6829●	7.85	7.30

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HAN D Sub Module



Pushing Performance



- 9-pin D-Sub connector
- Accepts most standard D sub formats
- Can be combined with all HAN modules

Standards **DIN VDE 0627, DIN VDE 0110, DIN EN 61984**

Current rating 5A

Voltage Rating 50V

Material Polycarbonate with Zinc Alloy shielding element

Mating Cycles 500

Environmental category 3CC>
 Insulation resistance 10Mohm
 Temperature range -40°C to +125°C
 Flammability rating UL94V-0

450134

	Mfrs. List No.	Order Code	1+	5+	10+
D Sub Male	09140093001	124-3942 ●	9.86	9.30	8.14
D Sub Female	09140093101	124-3943 ●	11.96	11.29	9.90
Crimp Contacts					
Male 20-22AWG	61030000073	124-5199 ●	0.33	0.30	0.28
Male 22-26AWG	61030000094	124-5202 ●	0.33	0.30	0.28
Female 20-22AWG	61030000074	124-5201 ●	0.51	0.47	0.43
Female 22-26AWG	61030000096	124-5203 ●	0.59	0.55	0.50

HAN USB and Firewire Module



Pushing Performance



USB

Firewire

Standards **DIN EN 61 984, USB 2.0**

Flammability rating UL94V-0

Material Polycarbonate

Mating Cycles 500

Environmental category 3CC>

Insulation resistance 10MΩ

Temperature range -40°C to +125°C

450129

	Mfrs. List No.	Order Code	1+	5+	10+
USB Female Patch	09140014701	124-3938 ●	18.77	17.71	15.49
USB Male	09140014651	124-3939 ●	22.73	21.44	18.78
Firewire Female	09140014711	124-3941 ●	17.24	16.27	14.23
Firewire Male	09140014611	124-3940 ●	2.60	2.45	2.13

HAN Pneumatic Module



Pushing Performance



- 2 or 3 contacts to transmit dry clean compressed air
- Termination of 1.6mm; 3mm; 4mm and 6mm inner diameter tubes
- Different tube dimensions can be combined in one module
- Socket contacts with/without shut-off valve
- Sturdy plastic contacts
- Extraction of pre-assembled pneumatic contacts possible
- Shut-off valve: when disconnected, a spring mechanism closes the pneumatic contact
- Male and female inserts are identical

Standards **DIN VDE 0627, DIN VDE 0110**Approvals **CSA UL Recognised****Inserts**

No. of ways

Colour

Material

Flammability

Mating cycles

Temperature range

Contacts

Material

Colour

Tube termination
 Inner diameter ID 1.6mm; 3.0mm; 4.0mm and 6.0mm
 Pressure rating Max. 8 bar
Seal
 Material Polycarbonate
Shut-off Valve
 Material Delrin Acetal

227335

Mfrs. List No		Order Code	1+	5+	10+
Insert					
0914 003 4501	for 1.6, 3.0, 4.0mm	728-159	2.17	2.03	1.94
0914 002 4501	for 6.0mm	345-4046	1.83	1.72	1.65
Pin Contact	Tube-ID		1+	10+	25+
0914 000 6152	3.0mm	728-275	3.42	3.29	3.23
0914 000 6153	4.0mm	728-287	3.35	3.13	2.99
0914 000 6174	6.0mm	345-4058	3.57	3.31	2.99

Mfrs. List No				Price Each			
Socket Contact							
0914 000 6253	4.0mm	728-317	3.35	3.13	2.99	2.84	
0914 000 6274	6.0mm	345-4060	3.77	3.55	3.40	3.25	
Socket Contact with Shut-off Valve							
0914 000 6257	3.0mm	728-330	10.23	9.87	9.68	9.21	
0914 000 6258	4.0mm	728-342	11.61	10.81	10.34	9.76	
0914 000 6279	6.0mm	345-4071	10.99	10.23	9.79	9.31	

Heavy Duty Connectors - Epic



HA3/HA4 Complete Kits

Plastic Housing with PG Threaded Gland



- Hood and base kits with inserts and PG glands
- No extra parts need to be ordered
- Panel base, surface base and coupler supplied with socket insert
- Hoods supplied with plug insert
- According to **VDE0110/89**

Current rating 10A
 Voltage rating 400V
 Termination Screw 0.5 to 2.5mm²
 Contact resistance 2mΩ
 Temperature range -40°C to +125°C
 Protection Class IP65

230422/406603

No. of Ways	Type	Order Code	1+
Complete Kit 1			
3	Panel mount base + Straight hood - PG11	990-4140 ●	13.68
4	Panel mount base + Side entry hood - PG11	990-4166 ●	14.73
Complete Kit 2			
3	Panel mount base 90° + Straight hood - PG11	990-4174 ●	15.31
4	Panel mount base 90° + Straight hood - PG11	990-4182 ●	16.60
Complete Kit 3			
4	Surface mount base + Straight hood - PG11	990-4204 ●	18.25
Complete Kit 4			
3	Straight hood + Straight coupler hood - PG11	990-4212 ●	14.69
4	Straight hood + Straight coupler hood - PG11	990-4220 ●	15.99

HA3/HA4 Complete Kits

Plastic Housing with Metric Threaded Gland



- Hood and base kits with inserts and Metric glands
- No extra parts need to be ordered
- Panel base, surface base and coupler supplied with socket insert
- Hoods supplied with plug insert
- According to **VDE0110/89**

Current rating 10A
 Voltage rating 400V
 Termination Screw 0.5 to 2.5mm²

Contact resistance 2mΩ
 Temperature range -40°C to +125°C
 Protection Class IP65

386173/406602

No. of Ways	Type	Order Code	1+	10+	50+
Complete kit 1					
3	Panel mount socket 90° + straight plug - M20	167-0893 ●	10.01	9.38	9.01
Complete Kit 2					
4	Surface mount socket + straight plug - M20	860-2565 ●	18.69	16.89	16.02
Complete Kit 3					
3	Straight plug + straight coupler - M20	860-2573 ●	15.42	13.95	13.23
4	Straight plug + straight coupler - M20	860-2581 ●	16.78	15.15	14.38

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Heavy Duty Connectors - Epic - continued

234448/406610

HA3/HA4 Complete Kits
Metal Housing with PG Threaded Gland

- HA3 and HA4 complete kits
- No extra parts need to be ordered
- The kit consists of all necessary parts to obtain a complete connection: Plug and Socket inclusive all inserts and housing
- According to VDE0110/89

Current rating 10A
Voltage rating 400V
Termination Screw 0.5 to 2.5mm²

Contact resistance 2mΩ
Temperature range -40°C to +125°C
Protection Class IP65

230424/406606

No. of Ways	Type	Order Code	Price Each 1+
Complete Kit 1			
3	Panel mount socket + straight plug - PG11	990-4239●	14.98
4	Panel mount socket + straight plug - PG11	990-4247●	16.27
4	Panel mount socket + plug right angle - PG11	990-4255●	17.16
Complete Kit 2			
3	Panel mount socket 90° + straight plug - PG11	990-4263●	16.76
3	Panel mount socket 90° + plug right angle - PG11	990-4271●	17.16
4	Panel mount socket 90° + straight plug - PG11	119-6573●	18.07
Complete Kit 3			
3	Surface mount socket + straight plug - PG11	990-4280●	18.90
3	Surface mount socket + plug right angle - PG11	990-4298●	19.77
4	Surface mount socket + straight plug - PG11	990-4301●	20.20
Complete Kit 4			
3	Straight plug + Straight coupler - PG11	990-4310●	12.42
4	Straight plug + Straight coupler - PG11	990-4328●	18.12

HA3/HA4 Complete Kits
Metal Housing with Metric Threaded Gland

- HA3 and HA4 complete kits
- No extra parts need to be ordered
- The kit consists of all necessary parts to obtain a complete connection: Plug and Socket inclusive all inserts and housing
- According to VDE0110/89

Current rating 10A
Voltage rating 400V
Termination Screw 0.5 to 2.5mm²
Contact resistance 2mΩ
Temperature range -40°C to +125°C
Protection Class IP65

386155/406608

No. of Ways	Type	Order Code	Price Each 1+
Complete Kit 1			
4	Panel mount socket + straight plug- M20	860-2450●	17.10
Complete Kit 2			
3	Panel mount socket 90° + straight plug- M20	860-2441●	17.57
4	Panel mount socket 90° + straight plug- M20	860-2468●	18.96
Complete Kit 3			
3	Surface mount socket + straight plug- M20	860-2476●	20.79
4	Surface mount socket + straight plug- M20	860-2484●	21.18
Complete Kit 4			
3	Straight plug + Straight coupler- M20	860-2492●	17.64
4	Straight plug + Straight coupler- M20	860-2506●	19.01

HA3/HA4 Hood and Base Kits



- HA3 and HA4 type connectors
- Metal or plastic housings
- Designed to meet VDE 0110/89 requirements

Current rating 10A
Voltage rating 400V AC
Termination Screw
Contact resistance 4mΩ
Temperature range -40°C to 125°C

Plastic Housings	Order Code	1+	Price Each 10+	50+
Hood with Male Inserts				
3 way side entry - PG11	167-0894●	4.54	4.25	4.09
3 way top entry - PG11	990-3038●	6.90	6.67	6.54
4 way side entry - PG11	167-0895●	4.12	3.86	3.71
4 way top entry - PG11	990-3046●	7.63	7.37	7.21
Panel Base with Female Inserts				
3 Way	990-3054●	6.84	6.61	6.49
4 way	990-3070●	7.95	7.31	6.99
Coupler Hoods with Female Inserts				
3 way metal - PG11	167-0896●	5.45	5.11	4.90
4 way metal - PG11	167-0897●	4.77	4.48	4.29
Panel Base R/A with Female Inserts				
4 Way	990-3062●	8.90	8.58	8.40
Metal Housings				
Hood with Male Inserts				
3 way side entry - PG11	990-3089●	7.53	7.15	7.08
3 way top entry - PG11	990-3097●	7.53	7.15	7.08
4 way side entry - PG11	990-3119●	6.53	6.29	6.18
4 way top entry - PG11	990-3127●	8.28	7.98	7.84
Coupler Hoods with Female Inserts				
3 way metal - PG11	990-3976●	8.75	8.45	8.28
4 way metal - PG11	990-3984●	9.84	9.48	9.30
Panel Base Female Inserts				
3 way straight	990-3100●	7.46	7.20	7.06
4 way straight	990-3143●	8.01	7.70	7.55
4 way R/A	990-3135●	9.79	9.44	9.26
Panel Base R/A with Female Inserts				
3 Way	167-0901●	8.09	7.58	7.29

HA3/HA4 Inserts Hoods and Bases
PG and Metric Threads

Inserts - Male & Female

Hoods - Top & Side Entry

Coupler Hood

- HA3 and HA4 type connectors
- Metal or plastic housings
- Designed to meet VDE 0110/89 requirements

Current rating	10A	Contact resistance	4mΩ
Voltage rating	400V AC	Temperature range	-40°C to 125°C
Termination	Screw		
Mfrs. List No.	10431000 =	167-0903	10.4264 =
10.4210 =	990-6274	10.4275 =	990-6169
10.4200 =	990-6266	10.4265 =	990-6150
10.4320 =	990-6304	19426500 =	990-4727

248186

No. of Ways	Size	Order Code	1+	Price Each 2+	5+
Inserts					
3, female	HA3	990-6274●	4.77	4.41	4.23
3, male	HA3	990-6266●	4.26	3.94	3.79
4, female	HA4	990-6304●	5.28	4.92	4.71
4, Male	HA4	167-0903●	2.39	2.28	2.18
Hoods					
Hood - Side Entry					
Metal - PG11		990-6169●	4.12	3.84	3.68
Hood - Top Entry					
Metal - PG11		990-6150●	3.35	2.92	2.87
Metal - M20		990-4727●	3.53	3.32	3.17
- PG11		990-6215●	2.62	2.23	2.15
Cable Coupler Hood - Top Entry					
Metal - PG11		990-6177●	4.51	4.30	4.14
Bases					
Panel Mount Base					
Metal		990-6185●	2.66	2.49	2.40
Plastic		990-6231●	2.05	1.93	1.84
Panel Mount Base - Right Angle					
Metal		990-6193●	4.39	4.08	3.92
Surface Mount Base - Right Angle					
Metal HA3/4 PG11		990-6207●	6.59	6.35	6.13

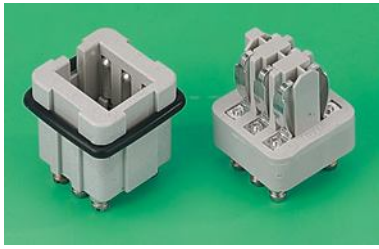
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EPIC STA Series Inserts



- 6-20 way inserts
- Screw terminations
- Suitable housing HA3 series

Current Rating 10A Contacts Copper Alloy, Silver plated
Voltage Rating 48V Cable diameter 0.5 - 1.5mm²
Insulator PBT Operating Temperature -40°C to 80°C

230225

Mfrs. List No.	Type	No. of Ways	Order Code	1+	2+	5+	10+
10.4881	Male	6	990-6312●	2.72	2.53	2.42	2.23
10.4861	Female	6	990-6320●	3.13	2.88	2.75	2.56
10493100	Male	14	167-0912●	5.42	5.19	4.97	4.77
10491100	Female	14	167-0910●	5.05	4.83	4.63	4.45
10503100	Male	20	167-0913●	7.27	6.95	6.66	6.40
10501100	Female	20	167-0911●	6.61	6.31	6.05	5.82

H-Q5 Complete Kit

Socket and Base Kit with Metric Threaded Gland



- Kit includes a panel mount base, top entry hood, socket insert with crimps and plug insert with crimps
- Plug and socket inserts each have five working contacts plus one additional earth contact
- M20 threaded gland

Temperature range -40°C to +125°C
Protection Class IP65
Mating Cycles 100
Contact Resistance 2mΩ

Termination Crimp 0.5 to 2.5mm²
Current Rating 16A
Voltage Rating 600V
Number of Ways 5 + PE

386302/406616

	Order Code	1+	Price Each	10+	50+
H-Q5 Complete Kit	860-2999●	15.78	15.21	14.52	

HA Hood and Base Kits

PG Threads



- HA hood base and cable coupler kits
 - 10-32 ways
 - Screw termination
 - PG clamp
- Current rating 16A
Degree of Pollution 2kV
Test Voltage 2kV
- Termination Screw 0.5 to 2.5mm²
Temperature range -40°C to +125°C
Protection Class IP65

248193/406613

No. of Ways	Type	Order Code	1+	Price Each	10+	50+
Hoods with Male Inserts						
10	Top Entry - PG16	990-3151●	12.64	12.20	11.95	
10	Side Entry - PG16	990-3160●	12.64	12.20	11.95	
16	Side Entry - PG21	990-3194●	18.47	17.82	17.47	
32	Top Entry - PG29	167-0898●	27.69	25.95	24.92	
Hoods with Female Inserts						
10	Top Entry - PG16	167-0899●	14.72	13.79	13.25	
16	Top Entry - PG21	167-0900●	19.71	18.47	17.74	
Panel Mount Base Female Insert						
10		990-3178●	12.52	11.52	11.03	
16		990-3208●	17.88	17.24	16.90	
32		990-4018●	24.05	23.57	23.08	
Surface Mount Base Female Insert						
10	PG16	990-3992●	17.26	16.65	16.31	
16	PG21	990-4000●	21.19	20.45	20.03	
32	PG29	167-0902●	34.08	31.95	30.68	

HA Inserts, Hoods and Bases



Hood, Side Entry Panel Mount Base Inserts - Male & Female

- PG and Metric Threads
- HA single parts
- 10-48 ways
- Screw termination

Termination 0.5 to 2.5mm²
Temperature range -40°C to +125°C

Protection Class IP65

234504

Size	No. of Ways	Order Code	1+	Price Each	10+	50+
Hood, Side Entry						
HA10 - PG16	10	990-4042●	6.81	6.58	6.46	
HA16 - PG21	16	990-4050●	10.48	9.95	9.84	
HA32 - PG29	32	167-0909●	15.16	14.50	13.91	
Hood, Top Entry						
HA10 - PG16	10	990-4069●	6.46	6.02	5.77	
HA16 - PG21	16	167-0907●	9.17	8.77	8.40	
HA32 - PG29	32	167-0908●	15.63	14.95	14.32	
Panel Mount Base						
HA10	10	990-4077●	5.88	5.69	5.59	
HA16	16	990-4085●	6.85	6.60	5.79	
Insert, Male						
HA10	10	990-4093●	5.99	5.77	5.66	
HA16	16	990-4107●	7.21	6.93	6.80	
HA32	32	167-0904●	6.99	6.69	6.42	
Insert, Female						
HA10	10	990-4115●	6.59	6.35	6.23	
HA16	16	990-4123●	9.02	8.40	8.04	
HA32	32	167-0905●	6.88	6.59	6.31	

EPIC® Heavy Duty Connectors



Hood

Plug Insert

Socket Insert

Panel Base

Gasket

- IP65
- CSA & SEV, UL Recognised
- Robust die cast aluminium alloy housing
- Cable gland included
- Base or hood will accept male or female inserts
- Leading earth contact
- Connector halves will only mate one way round
- Damaged levers can be replaced in situ

Available as:

- Complete kits
- Half kits - Hood kits, base kits, cable coupler kits
- Individual components - inserts, hoods and bases

230418



Heavy Duty Connectors - Epic - continued

HBE Complete Kits

Socket and Base Kits with PG Threaded Glands



- Rugged industrial connectors manufactured to VDE0110/89
- Approved to **CSA, SEV. UL** Recognised
- Inserts polarised for correct mating
- Kits comprise, hood, plug insert, M gland, base, socket insert
- All parts to make a full connection are supplied
- 6-24 way, screw termination
- 6 way is single latch

Temperature range -40°C to +125°C
 Protection Class IIP65
 Contact Resistance 2mΩ
 Mating Cycles 100
 Wire Size 0.5 to 2.5mm²
 Current Rating 16A at 400V

230435/406599

Ways, No. of	Type	Order Code	Price Each 1+
HBE 6 Base + Socket Insert, Hood + Plug Insert			
6	Panel Base + Straight Hood PG13.5	990-4336●	21.73
6	Panel Base + Straight Hood PG16	990-4344●	22.40
6	Panel Base + Side Entry Hood PG13.5	990-4352●	21.93
6	Panel Base + Side Entry Hood PG16	990-4360●	22.06
HBE 10 Base + Socket Insert, Hood + Plug Insert			
10	Panel Base + Straight Hood PG16	990-4379●	28.25
10	Panel Base + Side Entry Hood PG16	990-4395●	28.25
HBE 16 Base + Socket Insert, Hood + Plug Insert			
16	Panel Base + Straight Hood PG21	990-4417●	32.01
16	Panel Base + Straight Hood PG29	990-4425●	33.59
16	Panel Base + Side Entry Hood PG21	990-4433●	32.01
16	Panel Base + Side Entry Hood PG29	990-4441●	32.95
HBE 24 Base + Socket Insert, Hood + Plug Insert			
24	Panel Base + Straight Hood PG21	990-4450●	37.84
24	Panel Base + Straight Hood PG29	990-4468●	38.48
24	Panel Base + Side Entry Hood PG21	990-4476●	37.66
24	Panel Base + Side Entry Hood PG29	990-4484●	37.66

HBE Complete Kits

Socket and Base Kits with Metric Threaded Glands



- Rugged industrial connectors manufactured to VDE0110/89
- Approved to **CSA, SEV. UL** Recognised
- Inserts polarised for correct mating
- Kits comprise, hood, plug insert, PG gland, base, socket insert
- All parts to make a full connection are supplied
- 6-24 way
- 6 way is single latch

Temperature range -40°C to +125°C
 Protection Class IP IP65
 Contact Resistance 2mΩ
 Mating Cycles 100
 Wire Size 0.5 to 2.5mm²
 Current Rating 16A at 400V

386116/406600

Ways, No. of	Type	Order Code	Price Each 1+
HBE 6 Base + Socket Insert, Hood + Plug Insert			
6	Panel Base + Side Entry Hood M20	860-2360●	24.56
HBE 10 Base + Socket Insert, Hood + Plug Insert			
10	Panel Base + Straight Hood M20	860-2379●	31.55
10	Panel Base + Side Entry Hood M20	860-2387●	31.55
HBE 16 Base + Socket Insert, Hood + Plug Insert			
16	Panel Base + Straight Hood M25	860-2395●	34.37
16	Panel Base + Side Entry Hood M25	860-2409●	32.65
HBE 24 Base + Socket Insert, Hood + Plug Insert			
24	Panel Base + Side Entry Hood M25	860-2425●	41.32

HBE Hood and Base Kits (Half Kits)

Half Kits with PG Threaded Glands



- HBE hood kits complete with plug insert and cable gland
- HBE base kit complete with socket insert

Temperature range -40°C to +125°C
 Protection Class IIP65
 Mating Cycles 100
 Contact Resistance 2mΩ

- Supplied with EPIC SM PG clamp
- 6 way is single latch

Wire Size 0.5 to 2.5mm²
 Current Rating 16A
 Voltage Rating 400V

230438/406601

Type	Order Code	1+	Price Each 2+	5+
Hood Kit 6 Way - With plug insert and cable gland				
Hood, Side Entry - PG13.5	990-5995●	10.98	10.22	10.03
Hood, Top Entry - PG13.5	167-0917●	13.72	13.12	12.59
Hood Kit 10 Way - With plug insert and cable gland				
Hood, Side Entry - PG16	990-6010●	13.68	12.72	12.19
Hood Kit 16 Way - With plug insert and cable gland				
Hood, Side Entry - PG21	990-6037●	15.58	14.50	14.23
Hood, Top Entry - PG21	990-6045●	15.58	14.50	14.23
Hood Kit 24 Way - With plug insert and cable gland				
Hood, Side Entry - PG21	990-6053●	19.20	17.88	17.53
Hood, Top Entry - PG21	990-6061●	19.53	17.97	17.21
Hood Kit 32 Way - With plug insert and cable gland				
Hood, Side Entry - PG29	990-3216●	43.98	42.41	41.56
Hood, Top Entry - PG29	167-0919●	42.82	40.96	39.25
Number of Ways				
Surface Mount Base Kit - With socket insert and cable gland				
6 PG13.5	990-6070●	14.72	13.69	13.11
10 PG16	990-6088●	19.43	18.83	18.46
16 PG21	990-6096●	21.26	19.56	18.73
24 PG21	990-6100●	26.21	24.38	23.86
32 PG29	990-3283●	40.65	39.20	38.41
Panel Mount Base Kit - With socket insert				
6	990-6118●	11.19	9.43	9.25
10	990-6126●	14.46	13.46	12.86
16	990-6134●	16.58	15.42	14.76
24	990-6142●	19.12	17.79	17.02
32	990-3291●	30.56	28.43	27.20
48 with cover	990-3313●	52.75	50.86	49.84

HBE Hood and Base Kits

Half Kits with Metric Threaded Glands



- HBE hood kits complete with plug insert and cable gland
- HBE base kit complete with socket insert
- Supplied with EPIC SM metric clamp
- 6 way is single latch

Temperature range -40°C to +125°C
 Protection Class IP IP65
 Mating Cycles 100
 Contact Resistance 2mΩ
 Wire Size 0.5 to 2.5mm²
 Current Rating 16A
 Voltage Rating 400V

386185

Type	Order Code	1+	Price Each 10+	50+
Hood Kit 6 Way - With plug insert and cable gland				
Hood, Side Entry - M20	860-2603●	11.68	10.71	10.28
Hood, Top Entry - M20	167-0921●	15.84	14.86	14.26
Hood Kit 10 Way - With plug insert and cable gland				
Hood, Side Entry - M20	860-2620●	14.92	13.60	13.09
Hood, Top Entry - M20	167-0922●	17.94	16.81	16.14
Hood Kit 16 Way - With plug insert and cable gland				
Hood, Side Entry - M25	860-2646●	16.53	15.13	14.53
Hood, Top Entry - M25	167-0923●	19.68	18.45	17.71
Hood Kit 24 Way - With plug insert and cable gland				
Hood, Top Entry - M25	167-0924●	22.52	21.12	20.28
Surface Mount Base Kit - With socket insert and cable gland				
10 Way, M20	860-2689●	19.24	17.60	16.90

HBE Coupler Kits



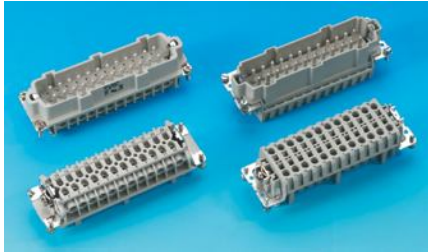
- Cable to cable coupler kits with socket inserts and cable gland
- Use with top entry hood and plug insert for cable to cable connection
- Screw termination
- PG clamp
- 6-24 Way

Wire Size	0.5 to 2.5mm ²	Temperature range	-40°C to +125°C
Cable Resistance	2mΩ	Current Rating	16A
Mating Cycles	100	Protection Class	IP65

230434/406604

No. of Ways	Order Code	1+	Price Each	10+	50+
Cable Coupler Kit					
6 - PG13.5	990-3240●	13.36	12.87	12.61	
10 - PG16	990-3259●	16.75	16.14	15.82	
16 - PG16	990-3267●	19.34	18.65	18.27	
24 - PG21	990-3275●	26.16	25.21	24.73	

HBE Inserts



- HBE inserts
- 6-32 ways
- Screw termination

Current rating	16A	Test Voltage	6kV
Voltage working	400V	Termination	Screw 0.5 to 2.5mm ²
Degree of Pollution	3	Temperature range	-40°C to +125°C

Mfrs. List No.	Mfrs. List No.	Mfrs. List No.
10.1900 = 990-3623	10.1960 = 990-3658	10.1950 = 990-3690
10.1920 = 990-3631	10.1910 = 990-3674	10.1970 = 990-3704
10.1940 = 990-3640	10.1930 = 990-3682	

230427

Size	No. of Ways	Order Code	1+	Price Each	10+	50+
Plug Insert, Screw Termination						
HB6	6	990-3623●	4.83	4.46	4.24	
HB10	10	990-3631●	6.17	5.96	5.83	
HB16	16	990-3640●	7.43	6.84	6.55	
HB24	24	990-3658●	9.65	9.30	9.11	
HB32	32	167-0925●	15.84	14.86	14.26	
Socket Insert, Screw Termination						
HB6	6	990-3674●	5.01	4.83	4.73	
HB10	10	990-3682●	6.30	6.08	5.96	
HB16	16	990-3690●	7.56	7.29	7.15	
HB24	24	990-3704●	10.33	9.96	9.76	
HB32	32	167-0926●	16.67	15.62	15.00	

HBS Series



- HBS Series kits and inserts
- Screw termination
- PG clamp
- HBS6 fits HB16 hoods or bases

Current Rating	35A	Mating Cycles	100
Voltage Working	400V	Degree of Pollution	3
Temperature range	-40°C to +125°C	Contact Resistance	2mΩ
Protection Class	IP65	Wire Size	0.5 to 6mm ²

Mfrs. List No.	Mfrs. List No.	Mfrs. List No.
10.0820+10.1700+12.9546	= 990-3909	10.1320+10.1710+10.1716 = 333-4028
10.1360+10.1700+10.1076+12.9456	= 333-4004	10.1320+10.1710+10.1716 = 990-3933
10.1360+10.1700+10.1076+12.9456	= 990-3917	10170600 = 167-0914
10.0720+10.1710	= 333-4016	10.1710 = 990-3950
10.0720+10.1710	= 990-3925	10171600 = 167-0915

230437

Size	PG Gland	Order Code	1+	Price Each	10+	50+
Hood Kit - Right Angle - With plug insert and cable gland						
6	PG21	990-3909●	23.71	22.87	22.41	
12	PG29	990-3917●	62.07	59.87	58.67	
Panel Mount Base Kits - With socket insert						
6		990-3925●	16.72	15.56	14.89	
12		990-3933●	50.17	48.38	47.40	
Insert, Plug						
6		990-3941●	15.15	14.63	14.33	
12		167-0914●	13.64	12.79	12.28	
Insert, Socket						
6		990-3950●	17.47	16.85	16.50	
12		167-0915●	13.76	12.90	12.38	

HD15, 25, 40 & 64 Hood and Base Kits
Half Kits with Metric Threaded Glands

- 15-64 way industrial connectors
- Metal body
- Crimp termination (contacts not included in kits)

Current rating	10A	Temperature range	-40°C to 125°C
Voltage rating	250V AC	Protection Class (15 & 25 way)	IP IP55
Termination	Crimp	Protection Class (40 & 64 way)	IP IP65
Contact resistance	2mΩ		

386241

Number of Ways	Gland Thread	Order Code	1+	Price Each	10+	50+
Side Entry Hood Kit - With plug insert and cable gland						
40	M25	860-2905●	17.89	16.17	15.34	
Panel Mount Base Kit - With socket insert and cable gland						
40	N/A	860-2921●	18.44	16.85	16.17	

HDD Inserts



- HDD Inserts
- 24-108 ways
- Crimp termination
- Applications include low voltage switchgear equipment, machine tool industries, automation, sound electronics and lighting
- Reduces installation time and provides system flexibility

Current rating	10A	Test Voltage	4kV
Voltage Rating	250V	Termination	Crimp 0.14 to 2.5mm ²
Degree of Pollution	3	Temperature range	-40°C to +125°C

Note1: Crimp contacts and tooling should be ordered separately (see HD/HDD)
Note2: High construction hoods are recommended

230432

Size	No. of Ways	Mfrs. List No.	Order Code	1+	Price Each	10+	50+
Male Insert, Crimp Termination							
HB6	24	11.2850	990-3739●	7.70	7.43	7.29	
HB10	42	11.2851	990-3747●	9.13	8.50	8.13	
HB16	72	11.2852	990-3755●	9.41	8.91	8.82	
HB24	108	11.2853	990-3763●	9.61	9.26	9.05	
Female Insert, Crimp Termination							
HB6	24	11.286000	167-0916●	7.95	7.45	7.16	
HB10	42	11.2861	990-3771●	9.13	8.50	8.13	
HB16	72	11.2862	990-3780●	9.18	8.55	8.18	

Crimp Contacts HD/HDD



Precision Tooling



Commercial Tooling

- Tooling suitable for HD, HDD and H-Q5 crimp contacts
- Crimp contacts suitable for HD and HDD inserts



Heavy Duty Connectors - Epic - continued

Crimp Contacts HD/HDD - continued

386268

Pack = 10 pieces		Price Per Pack		
Crimp Contacts	Order Code	1+	10+	50+
Pin				
0.14 - 0.37	990-3801●	4.15	4.01	3.94
0.5	990-3810●	4.15	4.01	3.94
0.75 - 1	990-3828●	4.15	4.01	3.94
1.5	990-3836●	4.15	4.01	3.94
2.5	990-3844●	3.12	3.00	2.95
Socket				
0.14 - 0.37	990-3852●	4.15	4.01	3.94
0.5	990-3860●	4.15	4.01	3.94
0.75 - 1	990-3879●	4.15	4.01	3.94
1.5	990-3887●	4.15	4.01	3.94
2.5	990-3895●	4.15	4.01	3.94
Order Multiple = 1			Price Each	
Precision Tooling				
Crimp Tool	633-800		223.09	
Crimp Locator	333-3851		37.34	
Crimp Removal Tool	333-3980		28.95	
Commercial Tooling				
Crimp Die	860-2972		123.80	

HBE Hoods

PG and Metric Threads



Top Entry Hood



Side Entry Hood

High Construction Hood
- Top EntryHigh Construction Hood
- Side Entry

- Supplied with EPIC SM glands
- Hoods come with zinc plated steel locking levers
- Single and double lever hoods available
- Body Material - Aluminium Alloy, powder coated
- Operating Temperature - -40°C to +125°C
- IP65

248195

Size	Latch	Mfrs. List No.	Order Code	1+	10+	50+
Hood, Side Entry						
HB6 PG13.5	Single	10.0120+12.9543	990-3380●	6.07	5.85	5.74
HB6 M20	Single	19012000+71200200	990-4751●	6.69	6.30	6.03
HB10 PG16	Double	10.0420+12.9544	990-3399●	7.51	7.25	7.11
HB10 M20	Double	19042000+71200200	990-4760●	7.99	7.52	7.21
HB16 PG21	Double	10.0820+12.9545	990-3402●	8.10	7.54	7.22
HB16 M25	Double	19082000+71200300	990-4778●	8.56	8.06	7.71
HB24 PG21	Double	10.1130+12.9545	990-3410●	10.11	9.74	9.56
HB24 M25	Double	19113000+71200300	990-4786●	10.71	10.07	9.65
HB32 PG29	Double	10136000+12954600	167-0866●	20.30	19.03	18.27
HB48 PG36	Single	10156000+12954700	167-0868●	28.51	26.73	25.66
Hood, Top Entry						
HB6 PG13.5	Single	10011000+12954300	167-0855●	6.47	6.06	5.82
HB6 M20	Single	19011000+71200200	167-0856●	6.86	6.43	6.17
HB10 PG16	Double	10.0400+12.9544	990-3437●	7.60	7.33	7.18
HB10 M20	Double	19040000+71201200	411-5144	5.18	--	--
HB16 PG21	Double	10080000+12954500	167-0860●	7.94	7.44	7.15
HB16 M25	Double	19080000+71201300	411-5156	8.94	8.61	8.44
HB24 PG21	Double	10121000+12954500	167-0863●	8.36	7.84	7.52
HB24 M25	Double	19121000+71201300	411-5168	11.19	10.78	10.57
HB32 PG29	Double	10134000+12954600	167-0865●	20.67	19.37	18.60
HB48 PG36	Single	10156000+12954700	167-0867●	24.51	22.98	22.06
High Construction Hood, Side Entry						
HB6 M25	Single	79022200+71201300	411-5170	11.16	10.74	10.52
HB10 M25	Double	79052400+71201300	167-0859●	9.44	8.85	8.50
HB24 M32	Double	79152600+71201400	411-5200	16.40	15.81	15.50
High Construction Hood, Top Entry						
HB6 PG21	Single	70020200+12954500	167-0857●	6.65	6.23	5.98
HB10 PG21	Double	70050400+12954500	167-0858●	7.70	7.22	6.93
HB16 PG29	Double	70100400+12954600	167-0861●	9.81	9.20	8.82
HB24 PG29	Double	70.1506+12.9546	990-3488●	13.49	12.99	12.76

HBE Bases

PG and Metric Thread



Panel Mount

Surface Mount



- HBE panel and surface mount bases
- Surface mount bases available with single and double cable entry
- Surface mount bases are supplied with EPIC SM glands
- Bases come with zinc plated steel locking levers
- Single and double lever bases available
- Body Material - Aluminium Alloy, powder coated
- Operating Temperature - -40°C to +125°C
- IP65

248198

Size	Levers	Cable Entry	Mfrs. List No.	Order Code	1+	10+	50+
Surface Mount Bases							
HB6 PG16	Single	Single	10005000+12954400	167-0869●	10.19	9.56	9.18
HB6 PG16	Single	Double	10006000+12954400	167-0870●	10.34	9.70	9.31
HB6 M20	Single	Single	19005000+71200200	990-4808●	9.64	9.07	8.69
HB6 M20	Single	Double	19006000+71200200	167-0871●	10.74	10.07	9.66
HB10 P16	Double	Single	10034000+12954400	167-0874●	14.20	13.31	12.78
HB10 PG16	Double	Double	10035000+12954400	167-0875●	13.21	12.37	11.89
HB10 M20	Double	Single	19034000+71200200	167-0877●	14.59	13.67	13.12
HB10 M20	Double	Double	19035000+71200200	167-0878●	13.59	12.75	12.23
HB16 PG21	Double	Single	10.0740+12.9545	990-3518●	13.94	12.83	12.28
HB16 PG21	Double	Double	10075000+12954500	167-0881●	15.34	14.38	13.80
HB16 M25	Double	Single	19074000+71200300	167-0882●	14.53	13.62	13.07
HB16 M25	Double	Double	19075000+71200300	167-0883●	15.88	14.89	14.29
HB24 PG21	Double	Single	10.1040+12.9545	990-3526●	15.39	14.33	13.70
HB24 PG21	Double	Double	10105000+12954500	167-0885●	17.80	16.69	16.03
HB24 M25	Double	Double	19105000+71200300	167-0886●	18.14	17.00	16.32
HB48 PG36	Single	Single	10165100+12954700	167-0891●	38.70	36.29	34.84
Surface Mount Base, High Construction							
HB6 PG21	Single	Single	70005200+12954500	167-0872●	8.63	8.09	7.77
HB6 PG21	Single	Double	70006200+12954500	167-0873●	9.15	8.57	8.23
HB10 PG21	Double	Single	70035200+12954500	167-0879●	12.09	11.34	10.88
HB10 PG21	Double	Double	70036200+12954500	167-0880●	12.42	11.64	11.18
HB16 PG21	Double	Double	70086400+12954600	167-0884●	14.34	13.45	12.91
HB24 PG29	Double	Single	70.1354+12.9546	990-3569●	15.06	14.54	14.25
HB24 PG29	Double	Double	70136400+12954600	167-0887●	15.94	14.94	14.34
Panel Mount Base							
HB6	Single	N/A	10.0030	990-3577●	5.96	5.75	5.64
HB10	Double	N/A	10.0320	990-3585●	8.19	7.62	7.29
HB16	Double	N/A	10.0720	990-3593●	12.80	12.33	12.08
HB24	Double	N/A	10102000	167-0889●	9.93	9.31	8.93
HB32	Double	N/A	10.1320	990-3607●	17.53	16.91	16.56
HB48	Single	N/A	10161000	167-0892●	22.55	21.14	20.30

Protective Covers and Coding Pins



- Protective cover fits panel mount bases, surface mount bases and cable connector hood

234445

Type	Order Code	1+	Price Each	50+
Protective Cap - Surface mount bases, panel mount bases, coupler hoods				
6	990-3321●	4.43	4.22	4.17
10	990-3330●	5.46	5.26	5.16
16	990-3348●	5.69	5.30	5.06
24	990-3356●	6.29	6.07	5.95
Protective Cover - Hoods with bolts				
6	167-0927●	10.97	10.28	9.88
10	990-3364●	11.08	10.42	9.98
24	990-3372●	12.42	11.78	11.65
16	167-0928●	13.28	12.45	11.96
Coding Pins				
Polarizing with Key Pin	167-0929●	1.81	1.70	1.62
Guide Pin & Socket	167-0930●	7.44	6.98	6.70

Epic® MC Modular Range



The Epic® MC modular range is a highly flexible system of inserts that allows unique connector design within the Epic® heavy duty industrial connector range. The system allows signal and power connections to be assembled within a single housing by inserting 2, 3, 5 or 7 modules into the relevant size frames. The inserts come complete with contacts and once the size of the frame has been chosen depending on the number of modules required, the hoods and bases can be picked out from the standard H-B range.

This range of products is for applications in machine and system construction, for printing machines and slide-in technology.

520717

Epic® MCR Modular Frames



Male



Female

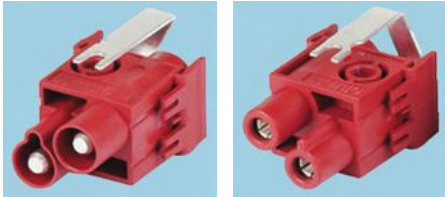
New

- Frames can accommodate between 2 and 7 MC modules
- Fit into standard H-B sized housings
- Both male and female modules can be combined in one frame
- The mixed assembly guarantees a high flexibility
- For applications in machine and system construction, for printing machines and slide-in technology.

520725

Mfrs. List No.	Gender	No. of Modules	Housing Size	Order Code	1+	10+	50+
10381000	Male	2	H-B 6	160-7472 ●	5.23	4.58	4.22
10381100	Female	2	H-B 6	160-7473 ●	5.09	4.46	4.11
10381200	Male	3	H-B 10	160-7474 ●	5.48	4.79	4.43
10381300	Female	3	H-B 10	160-7475 ●	5.33	4.66	4.30
10381400	Male	5	H-B 16	160-7476 ●	5.98	5.23	4.82
10381500	Female	5	H-B 16	160-7477 ●	5.87	5.14	4.74
10381600	Male	7	H-B 24	160-7478 ●	6.66	5.83	5.38
10381700	Female	7	H-B 24	160-7481 ●	6.57	5.75	5.30

EPIC® MC High Current Modules



160-7408

160-7409



160-7410

160-7411

- The new module can be inserted into the standard EPIC® Modular Frames
- The modules can be inserted or removed from the frame without a tool because of the snap hooks
- These screw contact modules can be easily wired with a standard screwdriver
- The flexibility of the modular series allows the arrangement of modules to fit requirements
- Each module occupies two positions in an MCR frame
- Connection cross section 10.0 - 25.0 mm
- 1000V
- 82A
- 100 cycles

520740

Mfrs. List No.	Gender	Contacts	Order Code	1+	10+	50+
10344600	Male	1 + PE	160-7408 ●	23.10	20.22	18.66
10345600	Female	1 + PE	160-7409 ●	24.35	21.31	19.67
10344100	Male	2	160-7410 ●	18.58	16.25	15.00
10345100	Female	2	160-7411 ●	19.46	17.02	15.71

EPIC® MC 3 Pole Modules



Plug - 10399800

Receptacle - 10399900

Machine Contacts

- Crimp termination
- 3 x MC 3,6 machined contacts included
- Can be used with high voltage applications
- Rated voltage - 1000V
- Current - 50A
- 100 cycles

520741

Mfrs. List No.	Gender	Cable csa (mm ²)	Order Code	1+	10+	50+
10399800 + 1121070C	Male	1.5	160-7412 ●	8.21	7.19	6.64
10399900 + 1121570C	Female	1.5	160-7413 ●	10.24	8.95	8.27
10399800 + 1121060C	Male	2.5	160-7414 ●	8.31	7.28	6.72
10399900 + 1121560C	Female	2.5	160-7415 ●	8.51	7.45	6.87
10399800 + 1121000C	Male	4.0	160-7416 ●	6.09	5.32	4.92
10399900 + 1121500C	Female	4.0	160-7417 ●	13.99	12.24	11.30
10399800 + 1121010C	Male	6.0	160-7419 ●	6.09	5.32	4.92
10399900 + 1121510C	Female	6.0	160-7421 ●	8.41	7.36	6.79
10399800 + 1121020C	Male	10.0	160-7422 ●	6.09	5.32	4.92
10399900 + 1121520C	Female	10.0	160-7423 ●	8.31	7.28	6.72
Removal Tool				1+		
11171100		1.5 - 10.0	160-7424 ●	59.58		

Over 480,000 products online



EPIC® MC 4 Pole HE Modules



Plug - 10399000

Receptacle - 10399100

Machine Contacts

- Crimp termination
- 4 x H-BE 2,5 machined contacts included
- Rated voltage - 630V
- Current - 25A
- 100 cycles

520758

Mfrs. List No.	Gender	Cable csa (mm ²)	Order Code	1+	10+	50+
10399000 + 11190000	Male	0.5	160-7425 ●	1.69	1.48	1.37
10399100 + 11195000	Female	0.5	160-7426 ●	1.82	1.58	1.47
10399000 + 11190100	Male	0.75 - 1.0	160-7427 ●	1.69	1.48	1.37
10399100 + 11195100	Female	0.75 - 1.0	160-7428 ●	1.82	1.58	1.47
10399000 + 11190200	Male	1.5	160-7429 ●	1.69	1.48	1.37
10399100 + 11195200	Female	1.5	160-7430 ●	1.90	1.65	1.53
10399000 + 11190300	Male	2.5	160-7432 ●	1.69	1.48	1.37
10399100 + 11195300	Female	2.5	160-7433 ●	1.82	1.58	1.47
10399000 + 11190400	Male	4.0	160-7434 ●	1.69	1.48	1.37
10399100 + 11195400	Female	4.0	160-7435 ●	1.82	1.58	1.47
Removal Tool				1+		
11182500		0.5 - 4.0	160-7436 ●	20.07		

EPIC® MC 5 Pole Modules



Plug - 10382200

Receptacle - 10382300

Machine Contacts

- Crimp termination
- 5 x MC 2,5 machined contacts included
- Rated voltage - 400V
- Current - 20A
- 100 cycles

520799

Mfrs. List No.	Gender	Cable csa (mm ²)	Order Codes	1+	10+	50+
10382200 + 1121300C	Male	0.5	160-7437 ●	4.98	4.35	4.02
10382300 + 1121800C	Female	0.5	160-7438 ●	7.36	6.44	5.95
10382200 + 1121310C	Male	0.75 - 1.0	160-7439 ●	6.09	5.32	4.92
10382300 + 1121810C	Female	0.75 - 1.0	160-7440 ●	7.36	6.44	5.95
10382200 + 1121320C	Male	1.5	160-7441 ●	6.09	5.32	4.92
10382300 + 1121820C	Female	1.5	160-7442 ●	7.36	6.44	5.95
10382200 + 1121330C	Male	2.5	160-7444 ●	6.09	5.32	4.92
10382300 + 1121830C	Female	2.5	160-7445 ●	7.36	6.44	5.95
10382200 + 1121340C	Male	4.0	160-7446 ●	6.09	5.32	4.92
10382300 + 1121840C	Female	4.0	160-7447 ●	7.36	6.44	5.95
Removal Tool				1+		
11182500		0.5 - 4.0	160-7436 ●	20.07		

EPIC® MC 4 Pole Cage Clamp Modules



160-7448

160-7449

- Cage clamp termination
- Rated voltage - 400V
- Current - 20A
- Contact resistance - 1.5 - 4 mR
- 100 cycles

520810

Mfrs. List No.	Gender	Cable csa (mm ²)	Order Code	1+	10+	50+
10399600	Male	0.5 - 2.5	160-7448 ●	3.33	2.92	2.69
10399700	Female	0.5 - 2.5	160-7449 ●	3.50	3.07	2.83

EPIC® MC 10 Pole Modules



Plug - 10382400

Receptacle - 10382500

Machine Contacts



Heavy Duty Connectors - Epic - continued

Epic® MC 10 Pole Modules - continued

- Crimp termination
- 10 x HD 1,6 machined contacts included
- Rated voltage - 250V
- Current - 10As
- 100 cycles

520825

Mfrs. List No.	Gender	Cable csa (mm ²)	Order Code	1+	10+	50+
10382400 + 13162000	Male	0.14 - 0.37	160-7450 ●	4.19	3.67	3.39
10382500 + 13163000	Female	0.14 - 0.37	160-7451 ●	4.29	3.76	3.47
10382400 + 13162100	Male	0.5	160-7452 ●	4.19	3.67	3.39
10382500 + 13163100	Female	0.5	160-7453 ●	4.29	3.76	3.47
10382400 + 13162200	Male	0.75 - 1.0	160-7454 ●	4.19	3.67	3.39
10382500 + 13163200	Female	0.75 - 1.0	160-7455 ●	4.29	3.76	3.47
10382400 + 13162300	Male	1.5	160-7457 ●	3.71	3.24	2.99
10382500 + 13163300	Female	1.5	160-7458 ●	4.29	3.76	3.47
10382400 + 13162400	Male	2.5	160-7459 ●	4.19	3.67	3.39
10382500 + 13163400	Female	2.5	160-7460 ●	4.29	3.76	3.47
Removal Tool				1+		
11161000		0.14 - 2.5	160-7461 ●	30.55		

Epic® MC 20 Pole Modules



Plug - 10383600

Receptacle - 10383700

- Crimp termination
- 20 x M-D 1,0 machined contacts included
- Rated voltage - 100V
- Current - 4A
- 50 cycles

New

520840

Mfrs. List No.	Gender	Cable csa (mm ²)	Order Code	1+	10+	50+
10383600 + 44429013	Male	0.08 - 0.2	160-7462 ●	5.62	4.92	4.55
10383700 + 44429009	Female	0.08 - 0.2	160-7463 ●	5.62	4.92	4.55
10383600 + 44429014	Male	0.2 - 0.52	160-7464 ●	4.64	4.06	3.75
10383700 + 44429010	Female	0.2 - 0.52	160-7465 ●	4.64	4.06	3.75

Heavy Duty Connectors - Weidmüller

Rockstar Heavy-Duty Connectors



Connector Components

Rockstar Heavy Duty Connectors (HDC) are rugged, heavy-duty connectors suitable for a wide range of electrical and electronic machines and systems: general mechanical engineering, materials-handling technology, plant engineering, packaging machines, lighting and stage technology, fairground rides, process engineering, transport and traffic engineering.

475371

Rockstar Size 1



Inserts



Current 22A
Voltage 250V
Temperature Range -40°C to +125°C
Mating Cycles 500
Insulation Resistance 10¹⁰ Ω
Colour Grey

Mfrs. List No. 1498100000=136-1573, 1498300000=136-1575,
1498200000=136-1572, 1498400000=136-1574,

No. of ways		Order Code	1+	10+	25+
3	Male HA insert	136-1573 ●	4.23	3.79	3.60
3	Female HA insert	136-1572 ●	4.51	4.07	3.84
4	Male HA insert	136-1575 ●	4.78	4.30	4.07
4	Female HA Insert	136-1574 ●	5.13	4.61	4.36

Hoods



Mfrs. List No. 1652400000=136-1576, 1652380000=136-1578,
1652480000=136-1577, 1652470000=136-1579,
1788510000=136-1585, 1788820000=136-1588,
1788810000=136-1586,

Gland Thread		Order Code	1+	10+	25+
PG11	Side entry, Plastic	136-1576 ●	2.12	1.91	1.81
PG11	Side entry, Metal	136-1577 ●	3.27	2.96	2.79
M20	Side entry, Plastic	136-1585 ●	2.11	1.91	1.81
M20	Side entry, Metal	136-1586 ●	3.27	2.96	2.79
PG11	Top entry, Plastic	136-1578 ●	1.77	1.59	1.51
PG11	Top entry, Metal	136-1579 ●	1.92	1.72	1.64
M20	Top entry, Metal	136-1588 ●	1.92	1.72	1.63

Housings



1652440000=136-1583, 1788830000=136-1590,
1652490000=136-1584, 1652410000=136-1580,
1788530000=136-1589, 1497600000=136-1581,

Mfrs. List No.

474992

Gland Thread		Order Code	1+	10+	25+
Bulkhead					
PG11	Side entry, Plastic with sleeve	136-1583 ●	4.85	4.37	4.13
PG11	Side entry, Metal with sleeve	136-1584 ●	5.67	5.09	4.80
M20	Side entry, Plastic with sleeve	136-1589 ●	4.85	4.37	4.13
M20	Side entry, Metal with sleeve	136-1590 ●	5.67	5.11	4.83
Base					
N/A	Plastic	136-1580 ●	1.77	1.59	1.51
N/A	Metal	136-1581 ●	2.40	2.14	2.02

Rockstar Size 2



Inserts



Current 22A
Voltage 250V
Temperature Range -40°C to +125°C
Mating Cycles 500
Insulation Resistance 10¹⁰ Ω
Colour Grey

1650610000=136-1592, Mfrs. List No. 1650620000=136-1591,

No. of Ways		Order Code	1+	10+	25+
10	Male HA insert	136-1592 ●	5.88	5.28	5.00
10	Female HA insert	136-1591 ●	6.34	5.72	5.41

Hoods



Mfrs. List No. 1663810000=136-1593, 1663930000=136-1595,
1788860000=136-1601, 1788620000=136-1602,
1665890000=136-1599,

Gland Thread		Order Code	1+	10+	25+
PG16	Side entry, Metal	136-1593 ●	4.04	3.63	3.44
PG16	Top entry, Metal	136-1595 ●	4.44	4.00	3.77
M20	Side entry, Metal	136-1601 ●	8.88	8.00	7.56
M20	Top entry, Metal	136-1602 ●	4.44	4.00	3.77
N/A	Metal, Cover for hood	136-1599 ●	10.66	9.15	7.77

Housings



1664170000=136-1597, 1664040000=136-1596,
1901100000=136-1603, 1665880000=136-1598,

475009

Gland Thread		Order Code	1+	10+	25+
Bulkhead					
PG16	Side entry, Plastic with sleeve	136-1597 ●	7.31	6.58	6.20
M20	Side entry, Metal with sleeve	136-1603 ●	7.71	6.95	6.56
Base					
N/A	Metal	136-1596 ●	4.51	4.07	3.84
Cover					
N/A	Metal, Cover for housing bases	136-1598 ●	8.61	7.39	6.27

Rockstar Size 3



Inserts



Current 24A
Voltage 500V
Temperature Range -40°C to +125°C
Mating Cycles 500
Insulation Resistance 10¹⁰ Ω
Colour Grey

1200000000=136-1617, Mfrs. List No. 1200200000=136-1616,

No. of Ways		Order Code	1+	10+	25+
6	Male HE insert	136-1617 ●	4.37	3.94	3.71
6	Female HE insert	136-1616 ●	4.51	4.07	3.84

Hoods



Mfrs. List No. 1670530000=136-1618, 1788120000=136-1626,
1670500000=136-1619, 1665210000=136-1623,
1788100000=136-1625,

			Price Each		
Gland Thread		Order Code	1+	10+	25+
PG13.5	Side entry, Metal	136-1618●	4.71	4.23	4.01
PG13.5	Top entry, Metal	136-1619●	4.98	4.49	4.22
M20	Side entry, Metal	136-1625●	4.78	4.30	4.07
M20	Top entry, Metal	136-1626●	4.98	4.49	4.22
N/A	Cover, Metal	136-1623●	10.25	9.22	8.71

Housings



1652750000=136-1621, Mfrs. List No. 1202100000=136-1620,
1900460000=136-1627, 1665200000=136-1622, 475137

			Price Each		
Gland Thread		Order Code	1+	10+	25+
Bulkhead					
PG16	Side entry, Plastic with sleeve	136-1621 ●	8.07	7.25	6.84
M20	Side entry, Metal with sleeve	136-1627 ●	7.99	7.19	6.78
Base					
N/A	Metal	136-1620 ●	5.32	4.78	4.53
N/A	Metal, Cover for housing bases	136-1622 ●	7.51	6.75	6.38

Rockstar Size 4



Inserts

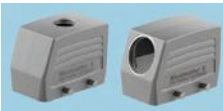


Current 16A
Voltage 500V
Temperature Range -40°C to +125°C
Mating Cycles 500
Insulation Resistance $10^{10} \Omega$
Colour Grey

1203900000=136-1629, Mfrs. List No. 1204100000=136-1628,

		Order Code	Price Each		
			1 +	10 +	25 +
No. of Ways					
10	Male HE insert	136-1629●	5.67	5.09	4.80
10	Female HE insert	136-1628●	5.88	5.28	5.00

Hoods



Mfrs. List No. 1654070000=136-1630, 1787590000=136-1638,
1654220000=136-1631, 1665240000=136-1635,
1787240000=136-1637,

			Price Each		
Gland Thread		Order Code	1+	10+	25+
PG16	Side entry, Metal	136-1630●	6.02	5.42	5.11
PG16	Top entry, Metal	136-1631●	6.42	5.76	5.46
M25	Side entry, Metal	136-1637●	9.89	8.92	8.42
M25	Top entry, Metal	136-1638●	7.17	6.45	6.09
N/A	Metal, Cover for hood	136-1635●	9.56	8.61	8.13

Housings



Mfrs. List No. 1664170000=136-1597, 1664040000=136-1596,
1901100000=136-1603, 1665880000=136-1598, 475138

47513

Gland Thread		Order Code	1+	Price Each	
				10+	25+
Bulkhead					
PG16	Side entry, Plastic with sleeve	136-1597●	7.31	6.58	6.20
M20	Side entry, Metal with sleeve	136-1603●	7.71	6.95	6.56
Base					
N/A	Metal	136-1596●	4.51	4.07	3.84
N/A	Metal, Cover for housing bases	136-1598●	8.61	7.39	6.27



Rockstar Size 5



Inserts

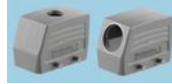


Current 22A
Voltage 250V
Temperature Range -40°C to +125°C
Mating Cycles 500
Insulation Resistance $10^{10} \Omega$
Colour Grey

1650770000=136-1605, Mfrs. List No. 1650780000=136-1604,

		Order Code	Price Each		
			1 +	10 +	25 +
16	Male HA insert	136-1605●	7.71	6.95	6.56
16	Female HA insert	136-1604●	4.78	4.30	4.07

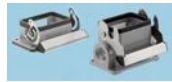
Hoods



Mfrs. List No. 1664690000=136-1606, 1788750000=136-1614,
1664810000=136-1607, 1665910000=136-1611,
1788740000=136-1613,

			Price Each		
Gland Thread		Order Code	1 +	10 +	25 +
PG16	Side entry, Metal	136-1606●	6.42	5.76	5.46
PG16	Top entry, Metal	136-1607●	6.97	6.27	5.92
M25	Side entry, Metal	136-1613●	6.42	5.79	5.47
M25	Top entry, Metal	136-1614●	6.97	6.27	5.92
N/A	Cover, Metal	136-1611●	11.06	9.73	8.71

Housings



475139

		Order Code	Price Each		
Gland Thread			1+	10+	25+
Bulkhead					
PG16	Side entry, Metal with sleeve	136-1609	10.59	9.53	8.99
M25	Side entry, Metal with sleeve	136-1615	10.59	9.53	8.99
Base					
N/A	Metal	136-1608	6.69	6.04	5.69
N/A	Metal, Cover for housing bases	136-1610	9.18	8.07	7.22

Rockstar Size 6



Inserts



Current 16A
Voltage 500V
Temperature Range -40°C to +125°C
Mating Cycles 500
Insulation Resistance $10^{10} \Omega$
Colour Grey

1498700000=136-1679, 1207500000=136-1641,
1498800000=136-1680, 1215700000=136-1666,
1498900000=136-1681, Mfrs. List No. 1207700000=136-1640,
1499000000=136-1682, 1216100000=136-1665,

No. of Ways		Order Code	1+	10+	25+
6	Male HSB 6 Insert	136-1679●	13.86	12.48	11.77
6	Male HSB 6 Insert (7 - 12)	136-1680●	13.86	12.48	11.77
6	Female HSB Insert	136-1681●	15.71	14.14	13.34
6	Female HSB Insert (7 - 12)	136-1682●	15.71	14.14	13.34
16	Male HE Insert	136-1641●	6.97	6.27	5.92
16	Male HE Insert (17 - 32)	136-1666●	6.97	6.27	5.92
16	Female HE Insert	136-1640●	7.31	6.58	6.20
16	Female HE Insert (17 - 32)	136-1665●	7.30	6.58	6.20

Hoods



Mfrs. List No. 1656480000=136-1642, 1788210000=136-1651,
1656590000=136-1643, 1665270000=136-1647,
1788180000=136-1649,

		Order Code	Price Each		
Gland Thread			1+	10+	25+
PG21	Side entry, Metal	136-1642●	6.82	6.14	5.80
PG21	Top entry, Metal	136-1643●	7.17	6.45	6.09
M25	Side entry, Metal	136-1649●	6.82	6.14	5.79
M25	Top entry, Metal	136-1651●	7.17	6.45	6.09
N/A	Cover, Metal	136-1647●	15.50	13.94	13.01

Housings

Heavy Duty Connectors - Weidmüller - continued

Rockstar Size 6 - continued

Housings - continued



Mfrs. List No. 1664170000=136-1597, 1664040000=136-1596,
1901100000=136-1603, 1665880000=136-1598,

475140

Gland Thread		Order Code	1 +	Price Each 10 +	25 +
Bulkhead					
PG16	Side entry, Plastic with sleeve	136-1597 ●	7.31	6.58	6.20
M20	Side entry, Metal with sleeve	136-1603 ●	7.71	6.95	6.56
Base					
N/A	Metal	136-1596 ●	4.51	4.07	3.84
N/A	Metal, Cover for housing bases	136-1598 ●	8.61	7.39	6.27

Rockstar Size 8

Inserts



Current 16A
Voltage 500V
Temperature Range -40°C to +125°C
Mating Cycles 500
Insulation Resistance $10^{10} \Omega$
Colour Grey

1211100000=136-1654, Mfrs. List No. 1211300000=136-1653,
1220800000=136-1674, 1221200000=136-1671,

No. of Ways		Order Code	1 +	Price Each 10 +	25 +
24	Male HE insert	136-1654 ●	9.09	8.17	7.71
24	Male HE insert (25 - 48)	136-1674 ●	9.09	8.17	7.71
24	Female HE insert	136-1653 ●	9.63	8.68	8.20
24	Female HE insert (25 - 48)	136-1671 ●	9.63	8.66	8.03

Hoods



Mfrs. List No. 1661230000=136-1655, 1787750000=136-1662,
1661370000=136-1656, 1787810000=136-1663,
1665640000=136-1660,

Gland Thread		Order Code	1 +	Price Each 10 +	25 +
PG21	Side entry, Metal	136-1655 ●	7.71	6.95	6.56
PG21	Top entry, Metal	136-1656 ●	8.32	7.49	7.08
M32	Top entry, Metal	136-1663 ●	8.41	7.57	7.14
M32	Side entry, Metal	136-1662 ●	9.29	8.36	7.90

Housings



1661510000=136-1658, Mfrs. List No. 1212400000=136-1657,
1904350000=136-1664, 1665630000=136-1659,
1665640000=136-1660,

475141

Gland Thread		Order Code	1 +	Price Each 10 +	25 +
Bulkhead					
PG21	Side entry, Metal with sleeve	136-1658 ●	13.66	12.30	11.61
M32	Side entry, Metal with sleeve	136-1664 ●	17.54	15.79	14.91
Base					
N/A	Metal	136-1657 ●	8.95	8.05	7.60
N/A	Metal, Cover for housing bases	136-1659 ●	9.70	7.72	6.56
Cover					
N/A	Hood Cover, Metal	136-1660 ●	16.80	15.12	13.01

Rockstar Size 10

Inserts



Mfrs. List No. 1498700000=136-1679, 1207500000=136-1641
1498800000=136-1680, 1215700000=136-1666
1498900000=136-1681, 1207700000=136-1640
1499000000=136-1682, 1216100000=136-1665

Weidmüller

Note: 12 way male connector requires inserts marked 1-6 and 7-12
12 way female connector requires inserts marked 1-6 and 7-12

Note: 32 way male connector requires inserts marked 1-16 and 17-32
32 way female connector requires inserts marked 1-16 and 17-32

No. of Ways		Order Code	1 +	Price Each 10 +	25 +
6	Male HSB Insert (1-6)	136-1679 ●	13.86	12.48	11.77
6	Male HSB Insert (7-12)	136-1680 ●	13.86	12.48	11.77
6	Female HSB Insert (1-6)	136-1681 ●	15.71	14.14	13.34
6	Female HSB Insert (7-12)	136-1682 ●	15.71	14.14	13.34
16	Male HE Insert (1-16)	136-1641 ●	6.97	6.27	5.92
16	Male HE Insert (17-32)	136-1666 ●	6.97	6.27	5.92
16	Female HE Insert (1-16)	136-1640 ●	7.31	6.58	6.20
16	Female HE Insert (17-32)	136-1665 ●	7.30	6.58	6.20

Hoods



Mfrs. List No. 1788420000=136-1667, 1788450000=136-1668,

Gland Thread		Order Code	1 +	Price Each 10 +	25 +
M32	Side entry, Metal	136-1667 ●	27.24	24.51	23.13
M32	Top entry, Metal	136-1668 ●	29.09	26.17	24.70

Housings



1902670000=136-1670, Mfrs. List No. 1219800000=136-1669,

475142

Gland Thread		Order Code	1 +	Price Each 10 +	25 +
Bulkhead					
M32	Side entry, Metal with sleeve	136-1670 ●	20.82	18.75	17.69
Base					
N/A	Metal	136-1669 ●	27.79	25.02	23.60

Rockstar Size 12

Inserts



Note: 48 way male connector requires inserts marked 1-24 and 25-48
48 way female connector requires inserts marked 1-24 and 25-48

Mfrs. List No. 1220800000=136-1674, 1211300000=136-1653
1211100000=136-1654, 1221200000=136-1671

No. of Ways		Order Code	1 +	Price Each 10 +	25 +
24	Male HE Insert (1-24)	136-1674 ●	9.09	8.17	7.71
24	Male HE Insert (25-48)	136-1654 ●	9.09	8.17	7.71
24	Female HE Insert (1-24)	136-1653 ●	9.63	8.68	8.20
24	Female HE Insert (25-48)	136-1671 ●	9.63	8.66	8.03

Hoods



Mfrs. List No. 1788320000=136-1675, 1788350000=136-1676,

Gland Thread		Order Code	1 +	Price Each 10 +	25 +
M32	Side entry, Metal	136-1675 ●	32.83	29.56	27.90
M32	Top entry, Metal	136-1676 ●	32.77	29.50	27.84

Housings



1788370000=136-1678, Mfrs. List No. 1222900000=136-1677,

475143

		Order Code	Price Each		
Gland Thread			1 +	10 +	25 +
Bulkhead					
PG11	Side entry, Plastic with sleeve	136-1678 ●	64.25	57.81	54.55
Base					
N/A	Metal	136-1677 ●	33.25	29.94	28.23

Panel Mount Terminal Blocks

Polyamide/Nylon 12 Way 6 and 10A



- Commercial quality polyamide 6A and nylon 10A

Housing	Polyamide 66 (17.5A) Nylon 66 (24A)		Working Voltage		400V	
Current Rating	Max wire size mm ²	Width mm	Length mm	Height mm	Pitch mm	Fix. Hole Dia mm
17.5	1.5	16.3	95.8	13.3	8	2.9
24	2.5	20.3	117.5	15.8	10	3.6

209220

Order Code	1+	50+	100+	250+	500+
120-7657 ●	0.77	0.71	0.67	0.56	0.49
120-7658 ●	1.06	1.01	0.90	0.76	0.70

Polyamide/Nylon 12 Way 17.5 A and 24 A



- 1.2mm Raised Base
- Polyamide 66 (Nylon 66)
- Nickel plated inserts

Current Rating	Max wire size mm ²	Width mm	Length mm	Height mm	Pitch mm	Fix. Hole Dia mm	Order Code
17.5	1.5	17	96	14.5	8.2	2.9	144-0031
17.5	1.5	17	96	14.5	8.2	2.9	144-0033
24	2.5	20.2	116.8	16.7	10	3.6	144-0034
24	2.5	20.2	116.8	16.7	10	3.6	144-0035

490534

Current	Order Code	1+	50+	100+	250+	500+
17.5A	144-0031 ●	0.85	0.78	0.73	0.63	0.56
24A	144-0034 ●	1.05	1.00	0.90	0.76	0.71
With wire protector						
17.5A	144-0033 ●	0.90	0.85	0.78	0.69	0.62
24A	144-0035 ●	1.10	1.05	0.94	0.82	0.76

Nylon 10A, 12 Way



- Nylon 6 White **UL94 V2**
- Approvals: **VDE, SEMKO, NEMKO, DEMKO, OVE**

Max voltage: 400V
Current rating: 10A
Max temp: 100°C
Screws: M3, Zinc plated Steel
Inserts: Brass, nickel plated

227341

Order Code	1+	50+	100+	250+	500+
113-4210 ●	0.89	0.84	0.75	0.65	0.56

Over 480,000 products online



Polyethylene 12 Way 6, 10, 16, and 32A



- Nickel plated brass inserts, nickel cadmium plated steel screws
- Made from self extinguishing polyethylene
- Maximum operating temperature 80°C
- Approvals **OVE, SEV**

Order Code	Current Rating	Max Volts	Max wire size mm ²	mm	Width mm	Pitch mm	Fixing Hole Dia
117-8395	6A	380V	2.5	15.8	93	13	8
117-8396	10A	380V	4	18.6	118.7	15.2	10
117-8397	16A	380V	6	23.5	134.7	17.3	11.5
117-8399	32A	500V	16	26	176.5	21	15

209003

		Price Each				
		1+	50+	100+	250+	500+
6A1275	117-8395 ●	0.94	0.89	0.84	0.70	0.59
10A1276-18	117-8396 ●	1.18	1.11	1.03	0.87	0.76
16A1277	117-8397 ●	1.80	1.57	1.41	1.24	1.09
32A1278	117-8399 ●	2.23	2.09	1.94	1.77	1.67

Nylon 12 Way 6 and 16A - with Standoffs



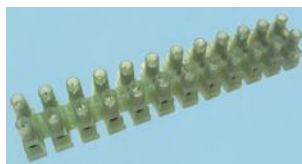
- Made from nylon 6.6
- Ribbed standoffs to meet creepage and clearance requirements
- Approvals: **SEMKO, NEMKO** and **SEV** (to 380Vac working) **1178389** (16 amp) **DEM-KO** and **VDE** to 380V AC
- 120°C max. operating temperature

Current Rating	Max wire size mm ²	Width mm	Length mm	Height mm	Pitch mm	Fix. Hole Dia mm	Order Code
6A	1.5	16	93.8	16.2	8	2	117-8388
16A	3.5	18.6	117	18.5	10	3.5	117-8389

209004

		Price Each				
		1+	50+	100+	250+	500+
6A	117-8388 ●	1.20	1.11	0.99	0.79	0.73
16A	117-8389 ●	1.40	1.31	1.17	0.93	0.86

Nylon 12 Way with Wire Protectors



- 12 pole terminal blocks in natural nylon 6.6 (self-extinguishing to UL 94 V2)
- Raised base to meet requirements for creepage and clearance when metal surface mounting
- The NP brass inserts have captive zinc plated and passivated steel screws which screw down onto stainless steel leaf

spring wire protectors, protecting conductors on tightening.

- Tested and approved to EN 60998, The new harmonised European standard for terminal blocks
- Approvals: **VDE, IMQ, UL** recognised and **cURus IMQ** and **VDE** markings have validity in all **CENELEC** countries. **cURus** is the new recognised component mark for both US and Canada.

Housing Screws	Polyamide Steel	Contacts	Brass				
Working Voltage	450V	Wire protectors	Stainless steel				
		Temp range **	-5°C to +125°C (110°C 149851)				
Current Rating *	Max wire size mm²	Width mm	Length mm	Height mm	Pitch mm	Fix. Hole Dia mm	Order Code
17.5A (6A)	1.5	15	93.5	15.2	8	2.6	121-1490
24A (10A)	2.5	20	117	17.5	10	3.2	120-6595
32A (16A)	4	23	139	20.7	12	3.2	121-1491
57A (32A)	6	25.3	175	25.5	15	4.2	121-1492

* Previous ratings to EN 60335

**Constant working temperature. Terminals are tested at +30°C above this value

209005

		Price Each				
		1+	50+	100+	250+	500+
PA35WPA	121-1490 ●	1.15	0.94	0.82	0.54	0.51
PA27WPA	120-6595 ●	1.12	1.06	0.92	0.89	0.86
PA44WPFA	121-1491 ●	1.65	1.60	1.36	1.32	1.26
57A	121-1492 ●	3.06	2.92	2.79	2.74	2.67



40,000 PRICES REDUCED



Panel Mount Terminal Blocks - continued

Terminal Block - Easy Break

12 Way



- Easily snapped to required number of poles
- No remaining burrs
- No tools needed to cut to length

Maximum Voltage	450V	Spring	Zinc Plated Steel
Working Temperature Range	-30°C to +110°C	Housing	PA6 UL94V-2
Material		Colour	Black

478116

Wire size	Current	Mfrs. List No.	Order Code	1+	10+	50+	100+
2.5mm ²	24A	CTSOS431/12BK	142-5637●	1.00	0.83	0.73	0.66
6mm ²	41A	CTSOS433/12BK	142-5639●	1.06	0.87	0.77	0.70
10mm ²	57A	CTSOS434/12BK	142-5641●	1.55	1.26	1.12	1.02

Touchproof Terminal Blocks

10A 12 Way



- Designed with extra long screw turrets and extended housings to be fully touchproof without the need to use covers
- Captive screws fitted as standard

- Standard 12 way length can be cut to suit requirements
- Approvals, **UL, CSA, VDE.**

Current rating	10A	Housing	Nylon 6 Natural UL94 V2	Voltage Rating	380V
Maximum temp.	100°C				

271682.342599

Mfrs. List No.	Order Code	1+	50+	100+	500+
500SKSL12A	113-4211●	2.01	1.85	1.62	1.50

High Power - 12 Way

41A and 57A with standoffs



- High power Terminal Blocks
- 1.2mm raised base

Voltage Rating	500V AC	Working Temp	110°C
Max Wire Size	PA12 6mm ² PA14 10mm ²	Terminal Insert	Brass nickel plated
Material	Nylon 66 UL94V-2 Natural		

238652

Current	Mfrs. List No.	Order Code	1+	50+	100+	250+	500+
41A	PA12	120-7655●	1.10	1.03	0.96	0.90	0.81
57A	PA14	120-7656●	1.78	1.68	1.58	1.53	1.47

Screwless Terminal Block

16A 3 Way



- Series 980 connectors allow push fit and push button release.
- Widely used in lighting applications.
- 2 ports per pole each side.
- Screw fix or panel catch pins.
- Various earthing options available.

- Manufactured to **ENEC10.**

Current rating		Voltage Rating
Maximum temp.		Housing

271685.344143

Mfrs. List No.	Order Code	5+	50+	100+	500+
Screw Fix Without Earth					
	113-4213●	0.30	0.28	0.25	0.24
Screw Fix, Screw Earth					
	113-4214●	0.30	0.28	0.25	0.24
Catch Pins, Earth Tab					
	113-4215●	0.30	0.28	0.25	0.24

Screw / Screwless Terminal Block

16A 12 way



- Standard 12 way lengths can be cut to suit requirements
- Particularly suitable for lighting applications
- Screw terminal on one side with two screwless terminals per pole on the opposite side

- Solid or tinned conductors should be used in screwless terminals
- Panel mount screw fixing.
- Approvals, **CSA, VDE,**

Current rating	16A	Housing Material	Polyamide 6.6
Maximum temp.	100°C	Pitch	10mm

271686

Mfrs. List No.	Order Code	5+	50+	100+	500+
9000712	113-4216●	1.12	1.03	0.91	0.83

High Temperature Terminal Blocks

12 Pole



Approved to the latest EN60998 specification, this range of 12 pole, high temperature terminal blocks is manufactured from brown glass filled polyamide insulation which houses the nickel plated brass screw terminals. The housing features fixing screw holes and can be cut into smaller sizes and the products are supplied with screws in the raised position ready for assembly.

- Rated temperature 150°C. Tested to 180°C
- Approvals: **CSA VDE**
- UL94V-0 rated

Housing	Glass reinforced polyamide, UL94 V0
Voltage Max	450V
Terminal	Nickel plated Brass

Order Code	Max Current	Max Wire Size mm ²	Rated Temp	Test Temp
113-0904	24A	2.5	150°C	180°C
113-0906	32A	4	150°C	180°C
113-0907	41A	6	150°C	180°C
113-0908	57A	10	150°C	180°C

239259

Mfrs. List No.	Order Code	1+	10+	50+	100+	500+
PA35FV	113-0904●	1.29	1.19	1.07	1.00	0.95
PA27FV	113-0906●	1.31	1.22	1.08	1.03	0.98
PA44FV	113-0907●	2.24	2.06	1.84	1.76	1.63
PA76FV	113-0908●	4.04	3.70	3.32	3.18	2.93

Flexible PVC3

- Captive terminal screws
- Easily subdivided with a knife
- Fully shrouded terminal, protects against accidental contact
- Domed end terminal screws, minimise damage to conductors

Insulation resistance	≥1000MΩ	Housing	PVC
Breakdown Voltage	≥7000V	Contacts	Brass,
Colour	grey	Temperature range	-55°C to +70°C

209006

12 Way 15, 20 and 43A



Mfrs. List No.	Current Rating	Height	Width	Length	Pitch	Fixing Centres	Dia
L1350/NI	15A	13.9	15.9	95.3	7.9	11.1x7.9	2.4
L744/NI	20A	15.9	19.1	127	10.8	14.3x10.8	2.4
L1325/NI	43A	23.8	26.2	181.4	15.1	19.5x15.1	4

209007

Mfrs. List No.	Order Code	1+	50+	200+	500+
L1350/NI	942-7040●	10.00	8.46	7.34	6.36
L744/NI	942-7058●	10.70	9.65	8.09	7.11
L1325/NI	942-7066●	25.72	21.74	18.93	16.46

Through Panel Fixing 12 Way 15A 90° Solder Termination

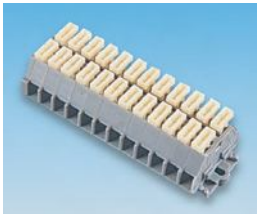


H=13.9, W=15.9, L=95.3
Pitch=7.9, Fixing=11.1x7.9x2.4 dia,
Panel cut-out=4.8 dia @ 7.9 pitch

209011

Mfrs. List No.	Order Code	1+	50+	200+	500+
L1409/NI	942-7074●	8.24	7.26	7.03	6.89

Cage Clamp 12 Way 26A



Cage clamp mechanism
H=18, W=28, L=86.5, Pitch=6,
Fixing centres=80.1x3.2 dia

- Vibration proof, reliable and fast to operate
- Insertion of wire by pressing the button with a screwdriver blade
- Modular construction allows splitting or joining for required no. of ways
- Additional end plates available
- Approvals: **VDE, SEV, KEMA-KEUR, OVE, CEPEC, SEMKO, DEMKO, NEMKO, SETI**, (15A @ 300V) and **CSA** (10A @ 300V)
- **UL** Recognised

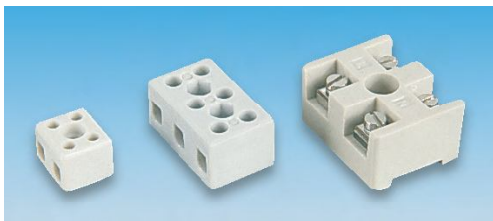
Maximum Voltage	500 VAC	Cage clamp spring	Chrome nickel spring steel
Current rating	26	Contacts	Copper
Temperature range	-35°C to +105°C	Housing	Nylon 6.6
		Colour	Light grey
		Wire size	0.08-2.5mm ² 14-26
		Box qty.	25

Mfrs. List No. 261-112/341-000=128-3525, 261361=464-934

209096

	Order Code	1+	25+	100+	250+
261-112/ 341-000 10 Per Pack End plate	128-3525●	4.64	4.00	3.50	3.12
261361	464-934	0.58	0.51	0.48	

Ceramic - High Temperature



- Suitable for high temperature applications
- Ideal for low voltage lighting and electric heating
- Open terminal version suitable for bare wires and fork terminals

Working Voltage Temperature		440Vrms max. 500°C max.				Housing Inserts	Porcelain Brass,	
Current Rating	No. of Ways	Wire size max. mm ²	Length mm	Width mm	Height mm	Fixing Centres mm	Fixing Hole Dia mm	Order Code
Enclosed Terminals								
10A	2	2.5	21	18	15	-	4.5	117-0355
10A	3	2.5	33	18	15	11.5	4.5	117-0356
15A	2	6	24	22	21	-	5.5	117-0357
15A	3	6	38	23	19	13.5	5	117-0358
30A	2	10	34	30	23	-	5	117-0359
30A	3	10	51	30	22	18.2	5	117-0360
Open Terminals								
20A	2	2.5	41	32	21	-	5	113-4209

209043

5 Per Pack		Price Per Pack					
Current Rating	No. of Ways	Order Code	1+	10+	20+	100+	200+
Enclosed Terminals							
10A	2	117-0355●	5.16	4.62	4.53	4.41	3.04
10A	3	117-0356●	5.50	5.36	4.85	4.77	4.60
15A	2	117-0357●	5.56	5.44	4.94	4.59	3.51
15A	3	117-0358●	8.40	8.22	7.48	6.17	4.74
30A	2	117-0359●	5.76	5.65	5.09	4.99	4.82
30A	3	117-0360●	7.92	7.77	7.22	6.99	6.64
Open Terminals							
20A	2	113-4209●	14.60	13.84	12.05	10.70	10.08

Melamine 2 to 12 Way 36A - with Finger Protection



H=20.8, W=26,
L=Fixing centres+10

- High temperature terminal blocks
- Screw down cover with moulded-in terminal numbers
- Finger protection to **IP20**
- High tracking resistance in moist conditions
- Cable protectors prevent damage to stranded cable up to 4.0mm²
- Designed to **SEV** and **VDE** (0110 group C) requirements

Max working voltage	500V ac, 600V dc	Cable protector	Bronze
Current rating	36A	Housing	Melamine
Temperature range	-40°C to +180°C	Colour	Light Grey
Bush clamp	Brass nickel plated	Maximum wire size	4mm ² stranded
Clamping screw	Steel		6mm ² solid

Mfrs. List No. KBD1/xxKR, where xx = No. of ways

209012/406642

No. of Ways	Fixing Centres	Order Code	Box Qty.	1+	25+	100+	500+	1K+
2	33	117-0136●	50	1.83	1.69	1.58	1.53	1.45
3	45	117-0137●	40	2.47	2.22	2.13	2.06	1.93
4	57	117-0138●	30	2.74	2.53	2.40	2.34	2.20
5	69	117-2829●	25	3.21	2.92	2.77	2.64	2.56
6	81	117-2830●	20	3.68	3.31	3.21	2.97	2.89
8	105	117-0139●	20	5.08	4.69	4.54	4.27	4.05
12	153	117-2819●	15	10.01	7.95	6.57	6.06	5.70

Terminal Block with Strain Relief



3 Way



- Clamps external conductors in lighting fixtures
- Prevents conductors from twisting
- Protects wire coating from abrasion and friction
- Takes the strain on the wires

478125

Pitch	Max Wire size	Mfrs. List No.	Order Code	1+	10+	50+	100+
8mm	2.5mm ²	CSR1TB	142-5642●	0.86	0.68	0.62	0.56
10mm	4mm ²	CSR2TB	142-5643●	0.91	0.74	0.66	0.60
12mm	6mm ²	CSR3TB	142-5644●	1.06	0.88	0.78	0.69

Enclosed Terminal Blocks



Enclosed Terminal Box

Three Pole



- Three individual screw terminals in natural polyamide enclosure
- Typical uses include cable extensions in lighting applications and Modular office furniture installations
- Enclosure lid is hinged and features a tamper resistant snap-shut action when closed
- Available with or without strain relief
- Approvals: **IMQ & VDE**.

Voltage rating	450V	Operating temperature	125°C
Case material	Natural PA66. UL94V2	Current rating	A17.5
IP rating	44	Max cable clamping diameter	10mm



Enclosed Terminal Blocks - continued

Enclosed Terminal Box - continued

Three Pole - continued

239255

Mfrs. List No.	Order Code	1+	10+	50+	100+	500+
Without strain relief THB.110.A6B	117-0376	1.55	1.41	1.29	1.23	1.13
With strain relief THB.110.C6B	117-0377	1.60	1.46	1.34	1.26	1.18

Teebox

Cable Splitter / Junction Enclosure



- A unique cable splitter / junction enclosure
- Complete with a three way junction box
- Suitable for internal or external use
- Screw or snap fit chassis mount versions available

Voltage rating	450V	Cable Acceptance	4 - 9.5mm ²
Current Rating	24A	Material Case	PA66 Polyamide
Temperature Range	-20°C to 120°C	Material Terminal Block	Nylon
IP rating	67		

484520

No. of Ways	Mfrs. List	Order Code	1+	5+	10+	25+
Screw Mounted Junction Box 3	THK.200.C2E	120-6598	7.92	6.67	6.25	5.95

Miniature Straight Through Cable Connector

3 Pole



- Cable diameter of 4mm to 9.5mm
- Supplied as complete kit
- Conforms to CE requirements and IMQ NEMKO approvals

Voltage Rating	400V ac
Current Rating	16A
IP Rating	IP67
Temperature Range	0°C to 125°C
Case Material	PA66
Flammability Class	UL94V2

496384

No. of Poles	Mfrs. List No.	Order Code	1+	5+	10+	25+
3	THR.384.S3A	152-1773	13.77	12.86	12.05	11.13

T Splitter Cable Connector

3 Pole



- Cable diameter of 5mm to 13mm
- Supplied as complete kit
- Conforms to CE requirements and IMQ NEMKO approvals

Voltage Rating	250V ac
Current Rating	16A
IP Rating	IP68
Temperature Range	0°C to 100°C
Case Material	PA66
Flammability Class	UL94V2

496396

No. of Poles	Mfrs. List No.	Order Code	1+	5+	10+	25+
3	THR.390.S3T	152-1774	9.20	8.58	8.05	7.43

Four Port Junction box

IP68



- Cable diameter of 5mm to 14mm
- Supplied as complete kit
- Suitable for outdoor power distribution
- Approvals CE IMQ and NEMO

Voltage Rating	250V ac	Temperature Range	0°C to 125°C
Current Rating	32A	Case Material	Nylon (PA66)
IP Rating	IP68	Flammability Class	UL94V2

No. of Poles	Mfrs. List No.	Order Code	1+	5+	10+	25+
6	THR.209.S6D	152-1772	16.06	14.99	14.05	12.98
8	THR.209.S8L	152-1771	17.16	16.01	15.03	13.86

496379

Four port gel filled junction box

3 Pole



- Cable diameter of 9.5mm to 12mm
- Supplied as complete kit
- Conforms to CE requirements

Voltage Rating	250V ac	Cable Acceptance	9.5 - 12mm
Current Rating	4A	Case Material	Nylon 6.6
IP Rating	IP68	Flammability Class	UL94V2
Temperature Range	0°C to 100°C		

496588

No. of Poles	Mfrs. List No.	Order Code	1+	5+	10+	25+
3	5625/12//66	152-1777	10.67	9.95	9.33	8.60

Tab Terminal Blocks

Terminal Block 16 Amp

Screw to Tab connector



- Available in 2, 3, and 6 pole versions
- M4 screw to 3 tabs (6.3 x 0.8)
- Supplied with screws in raised position ready for assembly
- Approvals CSA and UL Recognised

Screw	Steel zinc plated	Temperature Op	110°C
Tab	TinSteel plated	Current rating	16A
Voltage rating	400V	Casing material	Grey polyamide
Temperature Max	170°C		

239257

No. of Poles	Mfrs. List No.	Order Code	1+	10+	50+	100+	500+
2	1196300402	117-0378	0.48	0.46	0.40	0.38	0.35
3	1196300403	117-0379	0.55	0.50	0.45	0.42	0.40
6	1196300406	117-0380	1.44	1.33	1.20	1.13	1.06

Terminal Block 40 Amp

3 Pole screw to tab connector



- Available in standard and earth foot versions
- M5 screw to 3 tabs (6.3 x 0.8)
- Ideal for high temperature power distribution applications
- 411-5624 supplied with earth foot enabling chassis to be connected directly to earth terminal without further cabling
- Pitch, 17.7mm
- L.N.E. markings moulded into product

Height	24	Width	81.3	Depth	15
Screw / Tab	Steel Zinc plated	Max operating Temperature	150°C		
Voltage rating	450V	Case material	Brown fibreglass loaded polyamide		
Approvals	UL, CSA, VDE	Max. cable size	6mm ²		
Current rating	40A				

239258

Mfrs. List No.	Order Code	1+	10+	50+	100+	500+
FV110	120-6596	1.03	0.93	0.87	0.78	0.74
FV110B	120-6597	1.22	1.11	1.01	0.93	0.89

Push In Terminal Blocks

Pushwire Connectors



- Stranded wire push in connector
- Flame retardant thermoplastic
- Colour coded for easy identification
- Compact size design for tight spaces

Housing Material	Thermoplastic	Voltage Rating	600V	600V	
Current Rating	24A	Wire Range	0.5mm ² To 2.5 mm ²		474575
No. of Ways	Colour	Order Code	10 +	100 +	500 +
2	Yellow	135-7310●	0.117	0.101	0.089
3	Orange	135-7313●	0.140	0.113	0.101
4	Clear	135-7314●	0.160	0.135	0.119
5	Blue	135-7315●	0.183	0.155	0.138
6	Purple	135-7316●	0.210	0.186	0.163
8	Grey	135-7317●	0.280	0.220	0.200

Push In Wire Connectors



- Solid wire push in connector
- Flame retardant thermoplastic
- Colour coded

No. of ways	Width	Height	Depth	Max Wire size	
2	10.5mm	9.5mm	19.5mm	2.5mm	
3	13.5mm	9.5mm	19.7mm	2.5mm	
4	17.2mm	9.5mm	19.7mm	2.5mm	
5	21.1mm	9.5mm	19.7mm	2.5mm	
8	17.5mm	16.8mm	19.0mm	2.5mm	
Housing Material	Thermoplastic UL94V-2	Housing Material	Thermoplastic UL94V-2		
Current Rating	24A	Current Rating	24A		
Working Temperature	110	Wire Range	22 To 12 AWG		
Voltage Rating	600V				

312010.342991

No of Ways	Order Code	10 +	50 +	100 +
2 Red	113-4527●	0.065	0.036	0.027
4 Yellow	113-4531●	0.112	0.060	0.043
5 Grey	113-4532●	0.260	0.135	0.098

Series 273 Push-wire Connectors

- Push wire connectors for junction boxes
- For solid wires 0.75-4mm² in different combinations
- Insulation strip length 10-13mm
- Grey and transparent versions available



213715

Pushwire Connectors for Junction Boxes



Pushwire Connectors for Junction Boxes

- Reliable screwless connection
- Accepts solid or standard conductors
- Eliminates untidiness, bare wires and loose connections
- Compact and ergonomically designed with integrated test point
- Fast wiring with simple push-in connection
- Clear housing shows connection is fully made

Applications

- Junction boxes in domestic, commercial and industrial applications
- Power distribution circuits
- Lighting fixtures



Current	Rated Voltage	H	D	Conductor Size	
24A	400V/4kV/2	13.1	9.2	0.75mm ² - 0.75mm ² solid, 1.5mm ² - 2.5mm ²	233385/406617

Order Multiple=10		Mfrs.			Price Each		
617							
No. of Poles	Colour	W	List No.	Order Code	10+	50+	100+
2	Yellow	9.2	773-102	128-3415●	0.081	0.078	0.067
4	Orange	13.0	773-104	128-3416●	0.109	0.104	0.097
6	Lilac	18.8	773-106	128-3417●	0.144	0.140	0.128
8	Dark Grey	24	773-108	128-3419●	0.192	0.183	0.170

Series 273 Pushwire Connectors



Rated Current: 18A
Wire Size: 0.75-1.5mm²
Rated Voltage: 400V/4kV/2

Rated Current: 24A
Wire Size: 1-2.5mm²
Rated Voltage: 400V/4kV/2A

Mfrs. List No.	No. of Ways	Order Code	1 +	Price Each	10 +	50 +
Grey						
273-101	5	128-3516●	0.132	0.119	0.114	
273-108	8	128-3521●	0.220	0.210	0.200	
Transparent						
273-155	5	128-3447●	0.114	0.103	0.099	

213742

Mfrs. List No.	No. of Ways	Order Code	1 +	Price Each	10 +	50 +
Dark Grey						
273-112	2	128-3523●	0.098	0.096	0.091	
273-104	3	128-3519●	0.107	0.097	0.090	
273-102	4	128-3517●	0.140	0.110	0.100	
273-105	5	128-3520●	0.148	0.137	0.133	
273-103	8	128-3518●	0.400	0.360	0.350	
Transparent						
273-253	3	128-3448●	0.109	0.107	0.104	
273-255	5	128-3449●	0.153	0.142	0.138	
273-258	8	128-3450●	0.153	0.142	0.138	

Series 222/connecting terminal



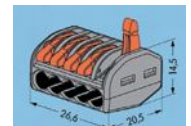
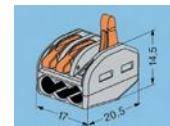
222-412 (2-way)



222-413 (3-way)



222-415 (5-way)



- Compact connecting terminal for up to 5 stripped flexible conductors
- Conductor size from 0.08 to 4 mm²
- Operating lever avoids the need for tools for operation

Technical data:

Series 231, 2-way- CAGE CLAMP S -connection

Approvals:

ENEC, UL
0.08mm² - 4mm²

Wire size:

377542

Type	No. of Contacts	Order Code	1 +	Price Each	10 +	50 +
222-412	2	130-0511●	0.144	0.134	0.124	
222-413	3	836-5830●	0.220	0.200	0.175	
222-415	5	836-5849●	0.260	0.240	0.230	

Series 224 Lighting Connectors



- Lighting connectors suitable for a variety of applications
- Installation/field side for solid conductor
- Lighting side for stranded or solid conductor

Wire Size Installation Side: 1.0mm² - 2.5mm² Solid Conductor
Wire Size Lighting Side: 0.5mm² - 2.5mm² Solid or Stranded Conductor

Insulation Strip Length: 9 - 11mm
Rated Voltage: 400V/4kV/2
Rated Current: 24A

213716

Mfrs. List No.	Order Code	1 +	Price Each	10 +	50 +
224-101	128-3484●	0.174	0.161	0.153	



Push In Terminal Blocks - continued

Service Connector



- Service connector for two stranded conductors
- Colour: Grey

Wire Size: 0.5 - 2.5mm² Rated Current: 24A
Rated Voltage: 400V/4kV/2 Insulation Strip Length: 9-11mm

213735

Mfrs. List No.	Order Code	1+	10+	50+
224-201	128-3495●	0.46	0.43	0.41

Lighting Connectors

1 and 2 Pole



- For use with solid and stranded wires
- Available with 1 or 2 poles
- Test slot permits easy testing with voltage tester
- Can be reused

Wire Size Installation Side: 0.75 - 2.5mm² Rated Current: 24A
Solid Conductor Rated Voltage: 450V
Wire Size Lighting Side: 0.5 - 2.5mm²
Solid or Stranded Conductor

474650

Order Multiple=50	Mfrs. List No.	Order Code	Colour	No. of Poles	50+	Price Each	500+	1K+
	PC301	135-7331●	Grey	1	0.123	0.104	0.091	
	PC302	135-7332●	White	2	0.136	0.118	0.105	

2-Conductor Lighting Connectors



- Lighting connectors for solid and stranded connectors
- Continuous operating temperature 105°C
- Colour: White

Wire Size Installation Side: 2 x 1.0 - 2.5mm² Solid Conductor
Wire Size Lighting Side: 0.5mm² - 2.5mm² Solid or Stranded Conductor

Rated Current: 24
Rated Voltage: 40V/4kV/2A

213746

Mfrs. List No.	Order Code	5+	10+	50+
224-112	128-3451●	0.174	0.163	0.160

HelaCon Plus - Wire Connectors

Double spring technology



HelaCon Plus is a sophisticated push-in wire connector for professional cable connections in electrical housing applications. The newly developed double spring allows easy processing and will support installers especially in tricky situations like overhead work. This ensures proper fixing that can optically be

checked through the transparent housings. Different colour codes provide a comfortable identification of the different connectors. A separate voltage test entry on the front guarantees safety during application, installation and maintenance.

Material Housing: Polycarbonate (PC)
Material Plated Brass: Brass Tinned
Material Spring Plate: Stainless Steel
Max Current: 24A
Max Voltage: 450V (VDE) 600V (cULus)
Wire range (cULus): AWG 12 to 22 solid/stranded
Wire Range (VDE): 0.5 to 2.5mm² solid/stranded (max 7 cores)
Stripping Length: 11mm
Flammability: UL94 V0
Operating Temperature: -30°C to +110°C (VDE), -30°C to +105°C (cULus)
Specification: VDE, NEMKO, SEMKO, FIMKO, DEMKO, KEMA-KEUR, CE, cULus

491291

Colour	Ways, no of	Order Code	1+	Price Each	50+	100+
Transparent-Yellow	2	151-0649●	0.184	0.163	0.141	
Transparent-Orange	3	151-0650●	0.210	0.178	0.157	
Transparent	4	151-0651●	0.250	0.210	0.178	
Transparent-Blue	5	151-0652●	0.310	0.250	0.210	
Transparent-Violett	6	151-0653●	0.430	0.360	0.310	
Transparent-Grey	8	151-0655●	0.540	0.450	0.380	

HelaCon Easy - Wire Connectors

Double spring technology



The HelaCon Easy connectors are used for fast, easy and reliable connection and distribution of cable and conductors in the field of electrical housing installations within junction boxes and control panels. The HelaCon Easy connectors are exclusively designed for use with solid wire up to a diameter range of

2.5mm². Bent, stranded or fine-stranded conductors will not apply.

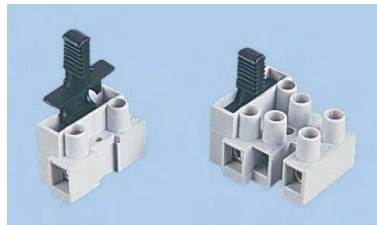
Material Housing: Polyamide (PA)
Material Plated Brass: Brass Tinned
Material Spring Plate: Stainless Steel
Max Current: 24A
Max Voltage: VDE-450V; UL-300V
Wire range (cULus): 12-20 AWG solid
Wire Range (VDE): 1.0-2.5 mm² solid
Stripping Length: 11mm
Flammability: UL94 V0
Operating Temperature Specification: -30°C to +110°C (VDE), -30°C to +105°C (cULus)
cULus, KEMA-KEUR, FIMKO, VDE, CEBC

491290

Colour	Ways, no of	Order Code	1+	Price Each	50+	100+
Grey	2	151-0656●	0.136	0.115	0.094	
Grey	3	151-0657●	0.178	0.146	0.136	
Grey	4	151-0658●	0.210	0.175	0.155	
Grey	5	151-0659●	0.240	0.210	0.178	
Grey	8	151-0660●	0.420	0.350	0.310	

Fused Terminal Blocks

Interlocking, 20mm or 1"/1¼" Fuses 10A and 16A



	20mm	1"/1¼"
No. of Ways	1 3	1 3
Height	27.5 27.5	32 32
Width	14.5 30	19 36
Depth	27 27	39 39
Fixing hole dia.	2.1 3.1	3.6 3.6
Earth screw	M3 x 12	M3.5 x 12

- One and three way interlocking nylon terminal blocks
- In-line fuse holder
- rear mounting screw threaded through earth () terminal on 3 way
- Three way block interlocks with one way
- Approvals: VDE, with SEMKO and SEV on 20mm versions

Max working voltage: 250V ac
Current rating: 20mm type 10A, 1"/1¼" type 16A
Temperature range: -40°C to +100°C
Housing Colour: Nylon (6.6) Grey (housing) Black (fuse holder)
Fuse contacts: Stainless steel
Maximum wire size: 4mm²

209025

No. of Ways	Order Code	1+	10+	Price Each	50+	100+	500+	1K+
20 x 5mm Fuse -10A								
1	113-4203●	0.64	0.53	0.46	0.38	0.34	0.31	
3	113-4205●	0.90	0.86	0.83	0.78	0.69	0.63	
1"/1¼" Fuse - 16A								
1	113-4207●	0.80	0.66	0.58	0.50	0.44	0.41	
3	113-4208●	0.90	0.87	0.82	0.78	0.70	0.65	

FREE technical support

Our trained engineers are here to help!

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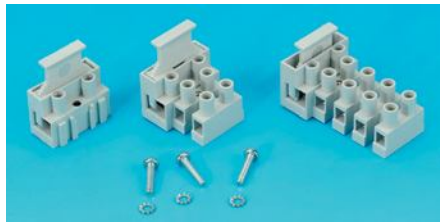


techsales@farnell.co.uk



Live technical chat at
www.farnell.co.uk

1-5 pole terminal block with 5 x 20mm fuse holder



H = 28.0, W = 20.0 terminal strip, W = 28.0

- 1-5 pole terminal block with 5 x 20mm fuse holder to IEC257
- Interlocking fuse holder CFTBN/1
- IP20 finger protection
- 2.5mm² cable entry with wire protector
- Supplied c/w earth screw & washer
- Wire protector standard on fused terminal
- Approvals **Semko, Femko, VDE, IMQ, Nemko & UL** Recognised

Maximum Voltage	450V ac	Bush	Brass
Max Current Rating	13A/20A	Spring	Zinc plated Steel
Working Temperature Range	-20°C to 120°C	Housing	PA66 UL94V-0
Max Short Duration Temp	110°C	Colour	Grey

232107

No. Poles	Mfrs. List No.	Order Code	1+	10+	50+	100+
Without Earth Screw						
1	CFTBN/1	388-2792●	0.80	0.63	0.53	0.49
2	CFTBN/2	388-2809●	0.88	0.67	0.55	0.50
With Earth Screw						
3	CFTBN/3	388-2810●	0.99	0.79	0.67	0.58
4	CFTBN/4	388-2822●	0.68	0.53	0.47	0.40
5	CFTBN/5	388-2834●	1.44	1.12	0.95	0.84

6.3 x 25mm & 5 x 20mm Fused Terminal Block



H = 25.0 fuse carrier, Max W = 35.6

- 3 pole terminal block capable of taking 5 x 20mm & 6.3 x 25mm fuses to IEC257
- Supplied complete with earth screw and washer
- IP20 finger protection
- 10mm² cable entry with wire protector
- Approvals **CE**

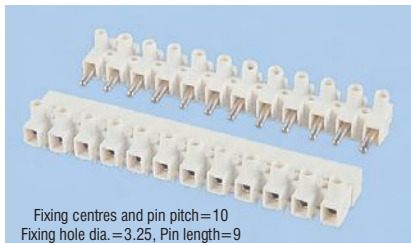
Maximum Voltage	Fuse holder 450V ac	Maximum Voltage	Terminal 450V ac
Max Current	Fuse holder 13A	Max Current	Terminal 20A
Housing	Polyamide 6.6 UL94V-0	Working Temperature Range	-20°C to 120°C
Terminal	110°C	Fuse clip	Phos Bronze
Bush	Brass	Colour	Grey
Wire Protector	Phos Bronze		

232108

			Price Each			
	Mfrs. List No.	Order Code	1+	10+	50+	100+
3 pole	CMFTB/3	388-2846●	0.70	0.62	0.56	0.50

Plug-in Terminal Blocks

Nylon Plug and Socket 12 Way 10A - with Standoffs

Fixing centres and pin pitch=10
Fixing hole dia.=3.25, Pin length=9

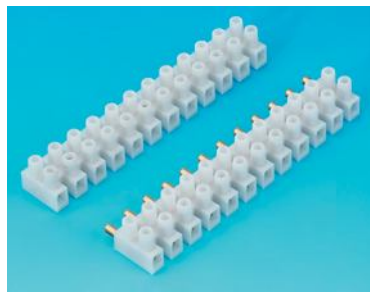
- A non-reversible plug and shrouded socket
- Suitable for use where cables need to be quickly disconnected
- Ribbed standoffs to meet creepage and clearance requirements
- Approval, **UL** Recognised

Max working voltage	380V ac	Housing	White nylon 6.6, UL94V-2
Current rating	10A	Contacts	Brass, Nickel
Temperature range	-60°C to +110°C	Screws	M3Steel, zinc plated
		Maximum wire size	2.5mm ²

209013

Order Code	1+	50+	100+	250+	500+
117-8400●	3.28	3.02	2.91	2.63	2.43

6A / 10A / 16A Plug-In Terminal Strips



6A = H=15.5, W=18, Pitch=8,
Fixing hole dia.=2.75mm
10A = H=16.4, W=20.5, Pitch=10.25,
Fixing hole dia.=3.2mm
16A = H=19, W=23, Pitch=12.3,
Fixing hole dia.=3.5mm

- 12 way plug-in terminal strips
- Easily cut to required length
- Allows application flexibility
- Approvals: **IMQ, KEMA, SEMKO, DEMKO, & VDE**
- **UL & CSA** Recognised

Maximum Voltage	450V ac	Bush	Brass
Max Current Rating	13/20A	Spring	6µ Zinc, colour passivated and tropicalised
Working Temperature Range	-5°C to +85°C	Housing	Self extinguishing Polypropylene, UL94V-2
Max Short Duration Temp	+110°C	Colour	White

528866

Description	Mfrs. List No.	Order Code	1+	10+	50+	100+
Female, 8mm/6A	CTSN431/12F	787-5061●	0.83	0.65	0.60	0.56
Male, 8mm/6A	CTSN431/12M	787-5070●	1.20	0.96	0.90	0.84
Female, 10mm/10A	CTSN433/12F	167-8107●	0.89	0.73	0.64	0.58
Male, 10mm/10A	CTSN433/12M	167-8106●	1.84	1.55	1.34	1.21
Female, 12mm/16A	CTSN434/12F	787-5088●	1.43	1.13	0.98	0.93
Male, 12mm/16A	CTSN434/12M	787-5096●	2.00	1.55	1.37	1.26

General Purpose Plug and Socket Connectors
16 AMP

A range of general purpose connectors ideal for equipment requiring regular disconnection for maintenance etc, or for project work in industry or education

- Black or Brown
- High temperature terminal blocks
- Quick disconnect terminals

Contact material	Brass	Current rating	16A
Contact plating	Nickel	Operating temperature	150°C
Voltage rating	400V	Case material	Glass reinforced polyamide, UL94 VO
Approvals	CSA, VDE		

239254

Description	Mfrs. List No.	Order Code	1+	10+	50+
Plugs					
4 way Black	1026000304	117-0366●	1.10	1.03	0.92
4 way Brown	1026010004	117-0367●	1.10	1.03	0.92
2 way Black	1026000302	117-0368●	0.64	0.58	0.54
2 way Brown	1026010002	117-0369●	0.33	0.30	0.28
Sockets					
4 way Black	1026100304	117-0371●	1.17	1.08	0.97
4 way Brown	1026110004	117-0372●	1.67	1.54	1.38
2 way Black	1026100302	117-0373●	1.08	1.00	0.91
2 way Brown	1026110002	117-0374●	0.93	0.86	0.78

Barrier Terminal Blocks

Barrier Terminal Block



- Tri-Barrier and Double Row available
- Polyamide Insulator body

Mfrs. List No:	T40-BB11-04 = 136-0230	T44-BB11-04 = 136-0235
	T40-BB16-04 = 136-0232	T64 4WAY = 136-0236
	T44-BB11-04 = 136-0233	T64 12WAY = 136-0237

No. of Ways	Current	Terminal Style	Pitch	Wire size (AWG)	Mfrs. List No.	Order Code
4	10	Horizontal	6.35	30 to 16	T40-BB11-04	136-0230
4	10	Vertical	6.35	30 to 16	T40-BB16-04	136-0232
4	15	Horizontal	9.5	22 to 14	T44-BB11-04	136-0233
4	15	Vertical	9.5	22 to 14	T44-BB11-04	136-0235
4	20	N/A	9.5	22 to 12	T64 4WAY	136-0236
12	20	N/A	9.5	22 to 12	T64 12WAY	136-0237



Barrier Terminal Blocks - continued

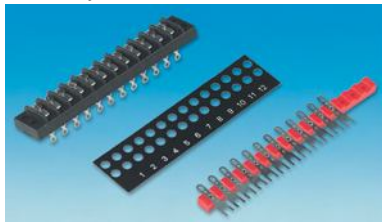
Barrier Terminal Block - continued

479359

No. of Ways	Mfrs. List No.	Order Code	1+	Price Each 50+	100+
Tri-Barrier					
4	T40-BB11-04	136-0230●	0.74	0.63	0.56
4	T40-BS16-04	136-0232●	0.74	0.63	0.56
4	T44-BB11-04	136-0233●	0.86	0.75	0.64
4	T44-BS11-04	136-0235●	0.86	0.75	0.64
Double Row					
4	T64 4WAY	136-0236●	0.86	0.75	0.64
12	T64 12WAY	136-0237●	2.51	2.15	1.88

Mini Barrier Terminal Strips,

5A, 12 Way



- Drop through solder terminals
- Strong moulded barrier of flame retardant polypropylene
- Fanning strip available for speedy connection and disconnection
- A 12 way Barrier strip that can be sub divided as required

The Fanning strips are a miniature version of the 15A system

Current Rating	5A Max	Moulding	Brass, Nickel Plated
Working Voltage	1000V	Terminal Plates	
Temperature Min	-55°C To + 100°C		

267389

Mfrs. List No.	Order Code	1+	Price Each 50+	100+
Drop through Solder Terminals				
R44 35012(SM)	118-8726●	2.16	2.12	2.08
Fanning Strips				
R44 81800 LH M12	118-8727●	1.65	1.62	1.58
R44 81800 RH M12	118-8728●	1.65	1.62	1.58

Double Row Terminal Blocks - 5A



- .25" pitch
- 300 Volts

Current rating	5A
Wire range	20 to 18AWG
Terminals	Brass Plated
Screws	Brass

490874

No. of Ways	Mfrs. List No.	Order Code	1+	Price Each 25+	100+
6	410-GP-6	142-7802●	4.06	3.61	3.25
8	410-GP-8	142-7803●	4.99	4.43	3.98
10	410-GP-10	142-7804●	5.98	5.33	4.78
12	410-GP-12	142-7806●	7.18	6.37	5.73
14	410-GP-14	142-7807●	8.22	7.32	6.58
16	410-GP-16	142-7808●	9.07	8.06	7.25
18	410-GP-18	142-7809●	8.75	7.78	7.00
20	410-GP-20	142-7810●	11.23	9.97	8.98
22	410-GP-22	142-7811●	13.57	12.07	10.85

Screw to Screw, Screw to Tag 3, 4 and 12 way 15A - High Barrier



H=12.8, W=3 way (46.5), 4 way (57.7), 12 way (133), D=22.3

Fixing centres=7.9x4.3 dia3 way (38.1), 4 way (47.6) 12 way (123.8), Max. fork width=7.5

Max working voltage	750V ac	Housing	Black, Glass Filled Polyester
Current rating	15A	Screw terminations	6/32 UNC
Temperature range	-25°C to +85°C	Tags	L=11.5, W=4.0, Th=0.6

209015

No. of Ways	Order Code	1+	10+	Price Each 50+	100+	250+
Screw to Screw Terminals						
3	118-8711●	1.23	1.10	0.98	0.88	0.81
4	118-8713●	1.61	1.45	1.29	1.15	1.05
12	118-8714●	3.58	3.20	2.88	2.58	2.36
Screw to Tag Terminals						
3	118-8715●	1.12	1.01	0.89	0.82	0.74
4	118-8716●	1.12	1.01	0.89	0.80	0.74
12	118-8717●	3.01	2.69	2.43	2.18	1.98

Modular Screw to Screw and Screw to Tag



H=12.7, W=(min 2 way=36.56 + multiples of 9.52 way), D=22.25

Fixing centres=7.92x4.32 dia3(2 way) 28.56 + multiples of 9.52, Max fork width=7.5

- Screw to screw and screw to tag
- 2 and 3 way connector options, combines in multiples to extend number of ways
- Mounting support required every 15 terminal on long rows
- Easy snap together segments

Max working voltage	500V ac or dc	Body material	Black Glass Filled Polyester
Contact material	Brass, Nickel	Screw terminations	4BA
Current rating	15A	Wire size	16AWG (max)
Temperature range	-55°C to +100°C		

209016

No. of Ways	Order Code	1+	10+	Price Each 50+	100+	250+
Screw to Screw						
2	118-8702●	1.13	1.01	0.90	0.82	0.74
3	118-8704●	1.37	1.23	1.11	0.98	0.90
Screw to Solder Tag						
2	118-8721●	0.79	0.71	0.64	0.56	0.51
3	118-8722●	1.04	0.94	0.84	0.77	0.69
Order Multiple=5		5+	10+	50+	100+	250+
Barrier junction	118-8705●	0.27	0.25	0.24	0.22	0.20
End cap	118-8706●	0.27	0.25	0.24	0.22	0.20

Double Row Terminal Blocks - 15A



- .375" Pitch
- Screw Construction

Current rating	15A
Wire range	22 to 12AWG
Terminals	Brass Plated
Screws	Brass

490875

No. of Ways	Mfrs. List No.	Order Code	1+	Price Each 25+	100+
150V					
2	670A-GP-2	142-7875●	0.96	0.86	0.76
4	670A-GP-4	142-7876●	1.53	1.35	1.22
6	670A-GP-6	142-7877●	2.30	2.05	1.84
8	670A-GP-8	142-7879●	2.85	2.53	2.28
10	670A-GP-10	142-7881●	3.37	2.99	2.70
12	670A-GP-12	142-7882●	3.80	3.38	3.04
14	670A-GP-14	142-7883●	3.86	3.43	3.08
16	670A-GP-16	142-7884●	5.01	4.46	4.01
20	670A-GP-20	142-7885●	5.51	4.90	4.41
300V 5-40					
Screws					
2	600-GP-2	142-7822●	0.93	0.82	0.73
4	600-GP-4	142-7823●	1.67	1.49	1.33
6	600-GP-6	142-7824●	2.39	2.13	1.91
10	600-GP-10	142-7825●	3.37	2.99	2.70
12	600-GP-12	142-7826●	3.72	3.31	2.97
14	600-GP-14	142-7827●	4.30	3.82	3.43
16	600-GP-16	142-7828●	4.75	4.22	3.80
18	600-GP-18	142-7831●	11.99	10.66	9.59
20	600-GP-20	142-7832●	5.41	4.81	4.33
22	600-GP-22	142-7833●	13.72	12.20	10.98
300V 6-32					
Screws					
2	600A-GP-2	142-7812●	0.61	0.55	0.49
4	600A-GP-4	142-7813●	1.24	1.11	0.99
6	600A-GP-6	142-7814●	1.67	1.49	1.33
8	600A-GP-8	142-7815●	2.28	2.03	1.82
10	600A-GP-10	142-7816●	2.60	2.30	2.08
12	600A-GP-12	142-7818●	3.17	2.82	2.53
14	600A-GP-14	142-7819●	3.72	3.31	2.97
16	600A-GP-16	142-7820●	3.65	3.24	2.92
20	600A-GP-20	142-7821●	5.16	4.58	4.12

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Screw to Screw 12 Way 15A



H=11.5, W=17, L=133.4

Pitch=9.6, Fixing=124.8x7.9x3.9 dia, Max. fork width=7.5

Max working voltage	380V ac	Housing	Polyester
Current rating	15A	Screw terminations	4BA Pan head slotted
Maximum temperature	100°C		

209019

Mfrs. List No.	Order Code	1+	50+	200+	500+
L1792A	314-973●	10.53	8.87	7.79	6.75

12 Way 15A

9.6mm Pitch



- Screw termination and right angled, through chassis or PCB termination

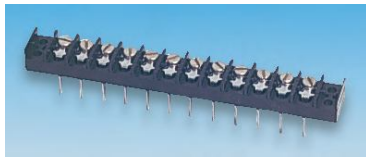
Maximum Working Voltage	380V
Current Rating	15A
Maximum Temperature	100°C
Housing	Black, polycarbonate
Screw Terminations	4BA Pan head slotted

H=11.5, W=17, L=133.4, Pitch=9.6, Fixing=124.8x7.9, Dia, Pin=1.0x0.07

231770

Mfrs. List No.	Order Code	1+	50+	200+	500+
L1795A	121-8802●	8.00	6.74	5.92	5.10

90° Through Panel 12 Way 15A



H=11.5, W=17, L=133.4

Pitch=9.6, Fixing=124.8x7.9x3.9 dia, Pins=2.8x0.61

- One row of screw terminals
- One row of right angle, through chassis terminations for solder or snap on connectors

Maximum working voltage	380V ac	Housing	Polyester
Current rating	15A	Screw terminations	4BA Pan head slotted
Maximum temperature	100°C		

209020

Mfrs. List No.	Order Code	1+	50+	200+	500+
L1790A	314-985●	8.92	7.51	6.59	5.69

Filtered Through Panel, 2, 3, 4 and 6 Way, 20A



H=14.5, W=2 way (42.9), 3 way (54.0), 4 way (65.1), 6 way (87.3), D=18.2
 Fixing centres = 2 way (33.3), 3 way (44.5), 4 way (55.6), 6 way (77.8) x 4.8 dia
 Pitch = 11.1, Through hole terminal dia. = 8.0, Pins = 1.6 dia.

- One row of screw terminals
- One row of Pi-section filtered through panel solder pins
- UL approved

Maximum working voltage	250V ac	Filter capacitance	2500 pF
Current rating	20A	Temperature range	-55°C to +105°C
Dielectric withstanding voltage	2kV	Housing	Thermoplastic

No. of Ways	10MHz	100MHz	1GHz	10GHz	Mfrs. List No.	Order Code
2	5	20	35	45	7602-501LF	113-1019
4	15	30	45	55	7604-501LF	113-1020

209311

No. of Ways	Order Code	1+	5+	10+	25+
2	113-1019●	14.37	13.61	12.73	11.72
4	113-1020●	26.72	25.29	23.62	21.83

72 Series - 20A



- .375" pitch PCB barrier terminal strip
- PCB mount

Current rating	20A @ 300V 12AWG	Insulation resistance	>5000MΩ
Wire range	24 to 12AWG (0.2 - 3.3)mm²	Housing	Black Thermoplastic UL94V-0
Maximum temp.	110°C	Terminals	Brass Tin / Lead
Withstand voltage	>10500V	Screws	Steel, Zinc Chromate plated

230213

No. of Ways	Terminal Type	Mfrs. List No.	Order Code	1+	25+	100+	250+
2	PCB	38720-7502	997-4008●	0.71	0.61	0.56	0.50
3	PCB	38720-7503	972-7868●	1.06	0.94	0.87	0.73
4	PCB	38720-7504	997-4016●	1.40	1.19	1.08	0.98
5	PCB	38720-7505	997-4024●	1.66	1.46	1.34	1.16
6	PCB	38720-7506	997-4032●	2.06	1.78	1.62	1.43
8	PCB	38720-7508	997-4040●	2.68	2.34	2.13	1.88
10	PCB	38720-7510	997-4059●	3.37	2.92	2.65	2.31
12	PCB	38720-7512	997-4067●	3.94	3.42	3.13	2.72

Double Row Terminal Blocks - 20A



- .375" and .430" Pitch
- Screw Construction

Current rating	20A
Wire range	22 to 12AWG
Terminals	Brass Plated
Screws	Brass

490876

No. of Ways	Mfrs. List No.	Order Code	1+	25+	100+
150V					
8	670A-RZ-08	142-7886●	1.93	1.72	1.55
20	670A-RZ-20	142-7887●	4.12	3.66	3.29
24	670A-RZ-24	142-7888●	5.38	4.78	4.31
30	670A-RZ-30	142-7889●	10.82	9.62	8.65
300V					
2	601-GP-2	142-7834●	0.75	0.66	0.59
3	601-GP-3	142-7835●	0.90	0.80	0.71
4	601-GP-4	142-7836●	1.26	1.13	1.02
5	601-GP-5	142-7837●	1.59	1.42	1.26
6	601-GP-6	142-7838●	1.78	1.59	1.43
7	601-GP-7	142-7839●	1.94	1.72	1.55
8	601-GP-8	142-7840●	2.45	2.18	1.95
10	601-GP-10	142-7841●	2.50	2.22	2.00
12	601-GP-12	142-7843●	3.37	2.99	2.70
16	601-GP-16	142-7844●	4.41	3.92	3.52
18	601-GP-18	142-7845●	4.39	3.91	3.51
20	601-GP-20	142-7846●	4.77	4.24	3.82
300V Closed Back					
2	671-GP-2	142-7890●	0.75	0.66	0.59
4	671-GP-4	142-7892●	1.44	1.29	1.15
6	671-GP-6	142-7893●	1.82	1.61	1.45
8	671-GP-8	142-7894●	2.30	2.04	1.84
10	671-GP-10	142-7895●	2.75	2.45	2.20
12	671-GP-12	142-7896●	3.21	2.86	2.57
14	671-GP-14	142-7897●	3.60	3.20	2.88
16	671-GP-16	142-7898●	4.01	3.56	3.20
20	671-GP-20	142-7899●	5.03	4.47	4.02

63 Series - 25A



- .438" pitch single row barrier strip for PCB mounting
- 600 volt, 25 amp, UL and CSA Recognised
- Economical low power alternative to high power 66 series

Current rating	25A @ 600V 12AWG	Insulation resistance	>5000MΩ
Wire range	24 to 12AWG (0.2 - 3.3)mm²	Housing	UL94V-0
Maximum temp.	110°C	Terminals	Brass, Tin / Lead plated
Withstand voltage	10500V	Screws	Steel, Zinc Chromate plated

230082

No. of Ways	Mfrs. List No.	Order Code	1+	25+	100+	250+
2	38630-7802	997-4075●	0.65	0.57	0.53	0.46
3	38630-7803	997-4083●	1.12	1.01	0.94	0.85
4	38630-7804	997-4091●	1.46	1.26	1.15	1.04
5	38630-7805	997-4105●	1.45	1.28	1.19	1.07
6	38630-7806	997-4113●	1.70	1.50	1.39	1.24
8	38630-7808	997-4121●	2.39	2.06	1.89	1.63
10	38630-7810	997-4130●	2.48	2.14	1.95	1.71
12	38630-7812	997-4148●	2.83	2.45	2.23	1.97

Over 480,000 products online



Barrier Terminal Blocks - continued

Double Row Terminal Blocks - 30A



- .563" Pitch
 - Screw Construction
- Current rating 30A
Wire range 14 to 12AWG
Terminals Brass Plated
Screws Brass

490877

No. of Ways	Mfrs. List No.	Order Code	1+	Price Each	100+
300V					
2	602-GP-2	142-7847●	0.87	0.78	0.69
3	602-GP-3	142-7848●	1.13	1.00	0.90
4	602-GP-4	142-7849●	1.76	1.57	1.40
6	602-GP-6	142-7850●	2.22	1.98	1.78
8	602-GP-8	142-7851●	2.86	2.54	2.29
10	602-GP-10	142-7852●	3.86	3.43	3.08
12	602-GP-12	142-7853●	4.52	4.02	3.61
14	602-GP-14	142-7855●	4.37	3.88	3.49
16	602-GP-16	142-7856●	5.98	5.33	4.78
18	602-GP-18	142-7857●	7.29	6.48	5.82
20	602-GP-20	142-7858●	6.58	5.86	5.26
600V					
2	672-GP-2	142-7900●	0.95	0.85	0.76
4	672-GP-4	142-7901●	1.66	1.48	1.33
6	672-GP-6	142-7902●	2.80	2.48	2.23
8	672-GP-8	142-7903●	3.01	2.68	2.41
10	672-GP-10	142-7904●	3.75	3.34	3.00
12	672-GP-12	142-7905●	5.07	4.51	4.05
16	672-GP-16	142-7906●	5.95	5.28	4.75
18	672-GP-18	142-7907●	10.30	9.16	8.24
20	672-GP-20	142-7909●	8.20	7.30	6.56

66 Series - 45A



molex

A range of barrier terminal strips and terminal blocks widely used in the manufacture of motion controls, process controls, machine tools, telecom systems and power supplies

- .500" pitch single row barrier strip for PCB mounting
- 600 volt, 45 amp, **UL** and **CSA** Recognised
- Provides an economical alternative to busbars or rail mounted terminal blocks
- Tri-barrier construction eliminates over-insertion of terminated wires preventing accidental shorting with PCB components

Current rating 45A @ 600V 8AWG Insulation resistance >5000MΩ
Wire range 18 to 8AWG (0.82-8.4)mm² Housing Black Thermoplastic, UL94V-0
Maximum temp. 160°C Terminals High Copper Brass, Tin / Lead plated
Withstand voltage 12000V Screws M4, Steel, Zinc Chromate plated

230073

No. of Ways	Mfrs. List No.	Order Code	1+	Price Each	100+	250+
2	38660-7802	997-4156▲	2.31	2.00	1.83	1.60
3	38660-7803	997-4164▲	3.71	3.22	2.92	2.57
4	38660-7804	997-4172▲	4.12	3.56	3.23	2.86
5	38660-7805	997-4180▲	5.10	4.42	4.03	3.54
6	38660-7806	997-4199▲	6.72	5.86	5.25	4.20

Double Row Terminal Blocks - 50A



- .680" Pitch
 - Screw Construction
- Current rating 50A
Wire range 12 to 10AWG
Terminals Brass Plated
Screws Brass

490878

No. of Ways	Mfrs. List No.	Order Code	1+	Price Each	50+
2	603-GP-2	142-7859●	2.34	2.08	1.86
4	603-GP-4	142-7860●	4.36	3.87	3.48
6	603-GP-6	142-7861●	5.59	4.97	4.47
8	603-GP-8	142-7862●	7.38	6.56	5.90
10	603-GP-10	142-7863●	9.08	8.08	7.26

Double Row Terminal Blocks - 70A



- .870" Pitch
- Current rating 70A
Wire range 12 to 4AWG
Terminals Brass Plated
Screws Brass

490879

No. of Ways	Mfrs. List No.	Order Code	1+	Price Each	10+	50+
2	604-GP-2	142-7864●	6.22	5.53	4.98	
3	604-GP-3	142-7865●	6.96	6.19	5.57	
4	604-GP-4	142-7867●	9.48	8.43	7.57	
5	604-GP-5	142-7868●	10.97	9.75	8.77	
6	604-GP-6	142-7870●	18.85	16.75	15.07	
8	604-GP-8	142-7871●	17.76	15.78	14.20	

Double Row Terminal Blocks - 90A



- 1.125" Pitch

Current rating 90A
Wire range 12 to 2AWG (0.2 - 3.3)mm²
Terminals Brass Plated
Screws Brass

490880

No. of Ways	Mfrs. List No.	Order Code	1+	Price Each	10+	50+
3	605-GP-3	142-7872●	13.29	11.82	10.64	
4	605-GP-4	142-7873●	14.31	12.72	11.44	
6	605-GP-6	142-7874●	19.07	16.96	15.26	

Tab to Tab 10 Way 5A



- Two rows of solder or snap on connections.

H=10.6, W=22.4, L=62.2
Pitch=5.08, Fixing=55.9x1.2 dia, Tabs=2.8x0.61

Maximum working voltage 250V ac
Current rating 5A
Maximum temperature 100°C
Housing Polycarbonate

209021

Mfrs. List No.	Order Code	1+	Price Each	50+	250+	500+
L1932	314-997●	7.98	6.76	5.90	5.10	

Interlocking Modular Multi-Tab 16A



120-6594 121-1488 120-6593

H=29, W=11, D=38 (per module), Fixing holes=3.5 diax1.3 pitch

- 16A chassis mounting, interlocking barrier type terminal block system
- Easily stacked, single pole units to provide required number of ways
- Units made up of either three or six 6.3 x 0.8mm tabs and a 4mm connecting screw

Maximum working voltage 380V ac
Current rating 16A
Maximum temperature 120°C
Housing Nylon
Screw terminations M4 Pozidriv

209023

	Order Code	1+	10+	Price Each	100+	250+	500+
Six tab	121-1488●	0.67	0.59	0.43	0.41	0.38	
Three tab+one M4 screw	120-6593●	0.75	0.67	0.54	0.46	0.42	
Order Multiple=2		2+	10+	100+	250+	500+	
End Plate (1 required per block)	120-6594●	0.43	0.39	0.30	0.27	0.26	



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Interlocking Multi-Tab 16A



- A 16 amp barrier type block
- Incorporates three 6.3 x 0.8mm brass terminals, with one M4 screw connection per pole.

H=24, W=37, Tab size=6.35x0.8
Fixing centres (3 pole=44,
4 pole=55)x4.5 dia

Maximum working voltage	380V ac	Maximum temperature	120°C
Current rating	16A	Housing	Glass Filled Nylon
Screw terminations	M4 Pan head slotted		

227343

No. of Ways	Total Length	Order Code	Price Each			
			1+	25+	50+	100+
3	52	117-8385●	2.70	2.41	2.06	1.75
4	63	117-8387●	3.58	3.19	2.73	2.35

Distribution Connector Block

3 and 6 Pole connectors



- Tab style connector block
- 3 & 6 pole versions
- Each pole comprises 5 terminals - 6.3 x 0.8
- Quick convenient method of power distribution within racks and Cabinets
- Screw mounting
- Approvals: UL Recognised

Contact material	Steel	Voltage rating	400V
Contact plating	Zinc	Material	
Current rating	16A	Working temp	100°C

239252

No. of Ways	Mfrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
3	1195250003	117-0362●	1.37	1.26	1.12	1.08
6	1195250006	117-0361●	2.74	2.51	2.26	2.14

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