

Latest Products from...

PCB Raised Loop Test
Terminals



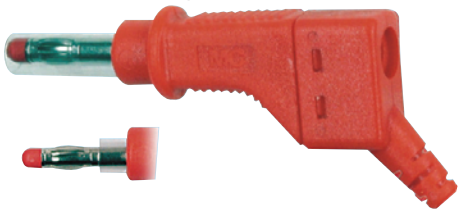
See page 1945

4mm Panel Sockets



See page 1951

4mm Retractable
Shrouded Plugs



See page 1953

Spring Loaded Contact
Probes

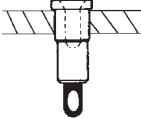


See page 1945

	Page
1mm Plugs and Sockets	1946
2mm Plugs and Sockets	1947
2.3mm Test Plugs	1948
3mm Connectors	1948
4mm Plugs and Sockets	1948
4mm Shrouded Connectors	1952
6mm Connectors	1955
Crocodile Clips	1959
Panel Mount Terminals	1957
PCB Test Probes	1944
PCB Test Terminals	1945
Press-Fit PTFE Components	1946
Connectors Linecard	1960

Test

267285

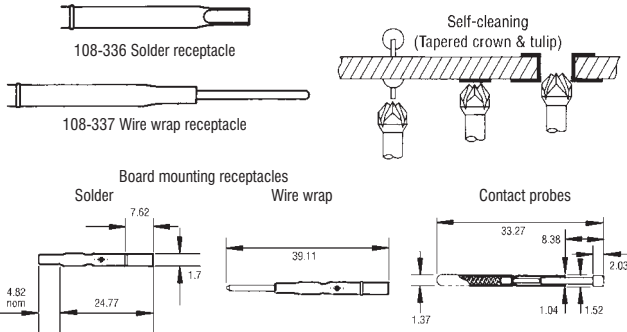
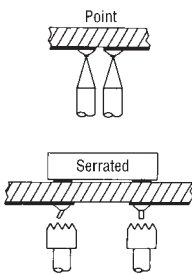
PCB Test Probes  SEE PAGE 1945	2mm Sockets  SEE PAGE 1947	Medical Connectors  SEE PAGE 1955	4mm  SEE WEBSITE	6mm Plugs and Sockets  SEE PAGE 1955
PCB Test Terminals  SEE PAGE 1945	2.3mm Test Plugs  SEE PAGE 1948	Potential Equalisation  SEE PAGE 1955	4mm Non Insulated  SEE PAGE 1951	Extra Flexible Cable  SEE WEBSITE
Press - Fit PTFE  SEE PAGE 1946	2mm Test Sockets  SEE PAGE 1947	2mm to 4mm Adaptors  SEE WEBSITE	4mm Test Sockets  SEE PAGE 1951	Supercon  SEE PAGE 1956
1mm Plugs & Sockets  SEE PAGE 1946	2mm Probes  SEE WEBSITE	Bridging links  SEE WEBSITE	4mm Shrouded  SEE PAGE 1953	Panel Mounting Terminals  SEE PAGE 1957
2mm Plugs  SEE PAGE 1947	2mm Lead Kit  SEE WEBSITE	3mm  SEE PAGE 1948	4mm Lead Kit  SEE WEBSITE	Crocodile Clips  SEE PAGE 1959

PCB Test Probes

Spring Loaded Contact Probes and Receptacles

IDI

- 108-332 Contact probe - spear point
- 108-333 Contact probe - serrated
- 108-334 Contact probe - tapered crown
- 108-335 Contact probe - tulip



A range of professional spring loaded contact probes giving a full travel of 0.25" (6.35mm) designed to mate with either solder or wire-wrap receptacles. The probes are available with either a point, serrated or self cleaning tapered crown and tulip head styles and will suit most major manufacturers high speed vacuum ATE equipment.

Probes		Receptacles	
Maximum current	3A dc	Material	Nickel/silver, Gold plated with gold plated post
Full travel	6.35mm	Mounting hole size	1.73 to 1.76mm
Spring pressure:			
Pre-load	45g		
¾ travel	113g		
Barrel	Gold Plated, Nickel/silver		
Spring	Stainless steel		
Recom. min. spacing	2.54mm		
Mfrs. List No:	S25B4G = 108-332, S25H4G = 108-333, S25Y4G = 108-335,	R25X4G = 108-334, R25SC = 108-336, R25WW = 108-337	

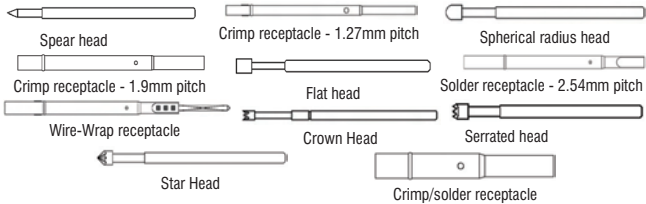
209768

				Price Each		
	Order Code	1+	50+	100+	250+	500+
Spring Loaded Contact Probes						
Pointed	108-332	1.62	1.34	1.02	0.87	0.79
Serrated	108-333	1.62	1.34	1.02	0.87	0.79
Tapered crown	108-334	1.62	1.34	1.02	0.87	0.79
Tulip	108-335	1.62	1.34	1.02	0.87	0.79
Receptacles for Contact Probes						
Solder cup type	108-336	0.52	0.42	0.33	0.29	0.25
Wire wrap type	108-337	0.58	0.50	0.37	0.32	0.29

Two Part Contact Probes Spring Loaded



- A range of professional spring loaded contact probes, 1.27 - 2.54mm pitch
- Mates with crimp, solder or wire-wrap receptacles
- Ideal for ATE

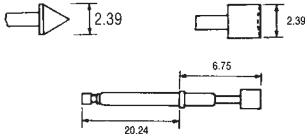


Receptacles			
Material:	Phosphor Bronze		
Material Finish	Gold		
Mfrs. list No.	Full Travel	Spring Type	Test Pitch
P13-***23	2.65mm	Music wire	1.27mm
P19-***21	2.54mm	Stainless steel	1.90mm
P25***23	4.2mm	Music wire, Gold plated	2.54mm
P25***26	6.3mm	Stainless steel	2.54mm

414679

	Mfrs. List No.	Order Code	1+	Price Each 50+	100+
Probes and Receptacle - 1.27mm Pitch					
Probe	P13-0123	996-0104	1.64	1.58	1.52
Probe	P13-1123	996-0112	1.72	1.67	1.60
Probe	P13-2123	996-0120	1.72	1.67	1.60
Probe	P13-4023	996-0139	1.96	1.88	1.85
Receptacle	S13-503	996-0147	0.69	0.67	0.62
Probes and Receptacle - 1.90mm Pitch					
Probe	P19-0121	996-0155	1.63	1.53	1.50
Probe	P19-1121	996-0163	1.63	1.53	1.50
Probe	P19-2221	996-0171	1.63	1.53	1.50
Probe	P19-4021	996-0180	1.73	1.66	1.60
Receptacle	S19-501	996-0198	0.71	0.69	0.64
Probes and Receptacle - 2.54mm Pitch					
Probe	P25-0822	996-0201	1.42	1.38	1.34
Probe	P25-0123	996-0210	1.42	1.38	1.34
Probe	P25-0423	996-0228	1.42	1.38	1.34
Probe	P25-1223	996-0236	1.71	1.65	1.57
Probe	P25-4023	996-0244	1.82	1.72	1.69
Probe	P25-5223	996-0252	1.60	1.54	1.49
Contact, Solder	S25-022	996-0260	0.69	0.65	0.63
Receptacle	S25-212	996-0279	0.82	0.76	0.72
Receptacle	S25-512	996-0287	0.79	0.72	0.70
Probes and Receptacle - 2.54mm Pitch					
Probe	P25F0126	634-554	1.52	1.25	0.94
Probe	P25F4026	634-566	1.69	1.39	1.05
Probe	P253226	634-578	1.52	1.25	0.94
Receptacle	S25346	634-608	0.66	0.55	0.41

Spring Loaded Contact



Mounting hole dia= 1.98 (press-fit), 2.16 (epoxy)

A range of spring loaded contact probes for multipoint testing of PC boards during production. They are designed for either press or epoxy fitting to the test bed. The 143-742 has a gold plated brass concave probe for locating PCB pins and soldered joints, whereas the 143-743 has a stainless steel pointed probe for contact with PCB tracks. Connection is via solder posts.

Spring travel	56 to 114gf	Contact resistance	50mΩ max
Probe pressure	5A	Mechanical life	100000 operations
Maximum current			
Mfrs. List No.	P1113SS3 = 156-0084	P1113CA3 = 156-0083	

209767

		Price Each				
	Order Code	1 +	50 +	100 +	250 +	500 +
Point contact probe	156-0084	1.20	1.07	1.03	1.01	0.97
Concave contact probe	156-0083	1.20	1.07	1.03	1.01	0.97

Spring Loaded Plunger & Receptacle Probes



- 1.27mm / 2.54mm Test Pitch
- 120g / 250g Spring Pressure
- Durability - 10⁶ cycles

Specifications:-

Test Pitch	Full Travel	Spring Pressure	Current	Contact Resistance	Mounting Hole Size
1.27mm	2.65mm	120g	3A	50Ω	0.9mm
2.54mm	6.30mm	250g	3A	50Ω	0.9mm

Contact Material: Plunger = Full-hard beryllium copper, Receptacle = Brass
Contact Plating: Plunger = Gold over nickel, Receptacle = Gold

528934

Mfrs. List No.		Order Code	10+	50+	100+
Plungers, 1.27mm Test Pitch					
Concave	P50-A-120-G	156-8248	0.600	0.480	0.400
Large Point	P50-E-120-G	156-8259	0.600	0.480	0.400
Point	P50-B-120-G	156-8260	0.600	0.480	0.400
Serrated	P50-H-120-G	156-8261	0.600	0.480	0.400
Receptacles, 1.27mm Test Pitch					
Solder	R50-SC	156-8262	0.280	0.220	0.183
Crimp	R50-CR	156-8263	0.280	0.220	0.183
Plungers, 2.54mm Test Pitch					
Concave	P100-A-250-G	156-8264	0.360	0.290	0.240
Large Point	P100-E-250-G	156-8265	0.360	0.290	0.240
Point	P100-B-250-G	156-8266	0.360	0.290	0.240
Serrated	P100-H-250-G	156-8268	0.360	0.290	0.240
Receptacles, 2.54mm Test Pitch					
Solder	R100-SC	156-8269	0.240	0.194	0.160
Crimp	R100-CR	156-8270	0.240	0.194	0.160

PCB Test Terminals



Raised Loops



PCB mounted test points ideal for clipping on probes or crocodile clips. Discrete wires, Set-On-Test components or components that require frequent replacement can easily be mounted through the eyelet. The coloured glass bead insulator is suitable for raising hot components off the PCB.

The phosphor bronze tinned spring prevents damage to through plated holes and ensures the terminal remains in place during soldering. Available in two different loop sizes and two different pin lengths.

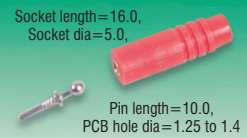
Mfrs List No.	Colour	Loop Dia.	Pin Length	Bead Height	Board Thickness	PCB Hole Dia.	Order Code
Series A - Small Loop-Short Pin Length							
20-2137	Black	1.1 - 1.3	2.5	3.1 - 3.3	1.6	1.02	873-1128
20-313137	Red	1.1 - 1.3	2.5	3.1 - 3.3	1.6	1.02	873-1144
20-313138	Green	1.1 - 1.3	2.5	3.1 - 3.3	1.6	1.02	873-1160
20-313139	White	1.1 - 1.3	2.5	3.1 - 3.3	1.6	1.02	873-1179
20-313140	Yellow	1.1 - 1.3	2.5	3.1 - 3.3	1.6	1.02	873-1187
Series B - Large Loop-Std Pin Length							
20-2136	Black	2.0 - 2.2	3.4	2.9 - 3.1	1.6	1.32	873-1195
20-313141	Red	2.0 - 2.2	3.4	2.9 - 3.1	1.6	1.32	873-1209
20-313142	Green	2.0 - 2.2	3.4	2.9 - 3.1	1.6	1.32	873-1217
20-313143	White	2.0 - 2.2	3.4	3.2 - 3.4	1.6	1.32	873-1225
20-313144	Yellow	2.0 - 2.2	3.4	2.9 - 3.1	1.6	1.32	873-1233
Series C - Large Loop-Extended Pin Length							
20-313145	Black	2.0 - 2.2	3.6	3.1 - 2.9	2.4	1.32	873-1250

406152

100 Per Pack Order Code	1+	5+	10+	50+	100+
Series A - Small Loop-Short Pin Length					
873-1128	12.00	11.00	10.00	9.56	9.01
873-1144	12.97	12.93	10.85	9.60	7.99
873-1160	12.97	12.93	10.85	9.60	7.99
873-1179	12.97	12.93	10.85	9.60	7.99
873-1187	12.97	12.93	10.85	9.60	7.99
Series B - Large Loop-Std Pin Length					
873-1195	12.97	12.93	10.85	9.60	7.99
873-1209	12.97	12.93	10.85	9.60	7.99
873-1217	12.97	12.93	10.85	9.60	7.99
873-1225	12.97	12.93	10.85	9.60	7.99
873-1233	12.97	12.93	10.85	9.60	7.99
Series C - Large Loop-Extended Pin Length					
873-1250	14.31	12.93	10.85	9.60	7.99

PCB Test Terminals - continued

‘SNAPLOX’ 7A



A range of PCB connectors designed with a ball and socket arrangement ideally suited for electronic testing where quick and consistent connections are required. The sockets can move through an angle of 60° beyond which it detaches itself. Being spherical, the connection has at least four points of contact, ensuring a low contact resistance and minimum electrical noise.

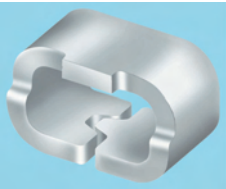
Current rating	7A	Contacts	Brass ball pin Palladium over Silver plating
Contact resistance	2mΩ max.	Housing	PTFE
Temperature range	-55°C to 125°C		
Maximum wire size	1.5mm O.D.		

Mfrs. List No. Socket = LSB2/156/Colour, Pin = 050/LT/B2

209716

Size	Order Code	Price Each					
		1+	50+	100+	250+	500+	1K+
Socket - black	145-322	2.85	2.60	2.30	1.98	1.85	1.68
Socket - red	145-323	2.85	2.60	2.30	1.98	1.85	1.68
Socket - white	145-326	2.42	2.33	2.24	2.17	2.11	1.95
Ball-ended pin	145-327	0.68	0.61	0.59	0.58	0.53	0.43

Surface Mount



- Ideal for use with most standard probes, clips and hooks
- Suitable for automatic or manual test
- Improved finished goods quality
- Strong and durable

Material Copper Alloy
Finish Tin / Lead

L = 3.25, W = 2.05, H = 2

335252

100 per Pack Order Code	Price Per Pack			
	1+	10+	50+	100+
102-2338	7.64	6.89	6.28	5.66

Turret Terminal Boards



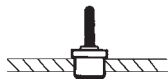
- Terminals are securely stacked and tinned for easy soldering
- Brass Terminals
- PBE and Glass Epoxy available

486039

No. of Ways	Board Width mm	Material	Order Code	1+	10+	50+	100+
50 Mini	25.4	Glass Epoxy	142-6039	12.24	11.73	11.26	10.84
52	38.09	Glass Epoxy	142-6026	11.15	10.68	10.27	9.87
10	29.97	Glass Epoxy	142-6034	2.84	2.70	2.59	2.48
24	29.97	Glass Epoxy	142-6041	6.53	6.25	6.01	5.76
38	29.97	Glass Epoxy	142-6037	8.37	8.02	7.68	7.40
24	38.09	Glass Epoxy	142-6038	6.56	6.28	6.02	5.78
10	38.09	Glass Epoxy	142-6040	3.19	3.02	2.90	2.78
10	50.8	Glass Epoxy	142-6036	3.42	3.27	3.13	3.00
24	50.8	Glass Epoxy	142-6027	6.39	6.12	5.89	5.64
38	50.8	Glass Epoxy	142-6028	9.41	9.02	8.65	8.32
50	50.8	Glass Epoxy	142-6033	15.49	14.85	14.26	13.72
Scored							
50	38.09	Glass Epoxy	142-6025	13.04	12.51	12.01	11.55
50	63.5	Glass Epoxy	142-6024	16.23	15.55	14.93	14.36
25	12.7	Paper Base Electrical	142-6029	5.40	5.18	4.97	4.76
50	38.09	Paper Base Electrical	142-6032	10.73	10.29	9.88	9.49
50	50.8	Paper Base Electrical	142-6030	10.98	10.51	10.09	9.71
50	76.19	Paper Base Electrical	142-6031	13.38	12.84	12.33	11.85

Press-Fit PTFE Components

Insulated (Stand Off) Miniature Terminals



A press-fit terminal suitable for soldering wires and components to.

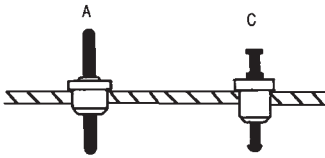
Engineered for life

PCB/panel	Height Overall (mm)	Mounting Hole (mm)	Mfrs List No.	Order Code
	8.9	3.5	013-1000-040FB9	134-7800
	8.9	2	003-1009-040FB9	134-7801

209753

Order Code	1+	50+	Price Each		
			100+	250+	500+
134-7800	1.49	1.26	0.95	0.83	0.76
134-7801	1.57	1.35	1.01	0.88	0.80

Insulated Feed-Through Terminals



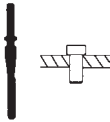
PCB/panel

Style	Order Code	Height Overall mm	Mounting Hole mm	Mfrs List No.
		13.1	2.2	001-1007-040FB9
A	134-7797	13.1	3.5	011-1004-040FB9
A	134-7796	13.1	4	011-2049-040FB9
C	134-7795	13.7		

209754

Style	Order Code	1+	50+	Price Each		
		100+	250+	500+		
A	134-7797	1.70	1.41	1.13	0.95	0.89
A	134-7796	1.94	1.57	1.25	1.05	0.95
C	134-7795	1.57	1.31	1.04	0.88	0.82

Two Piece Terminal



PCB/panel

- A loose fit bush that expands when the terminal is inserted

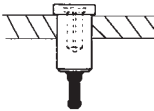
Height Overall (mm)	Mounting Hole (mm)	Mfrs List No.	Order Code
15.87	2.3	101-1412-001FB0	134-7803
17.55	3.9	101-1411-001009	134-7802
		011-1409-041609	134-7798

◆Note: Lug and bush are ordered separately

209755

Order Code	1+	50+	Price Each		
	100+	250+	500+		
134-7803	0.68	0.64	0.60	0.54	0.52
134-7802	0.53	0.50	0.48	0.44	0.42
134-7798	3.03	2.50	2.03	1.68	1.57

2mm Test Point Sockets - Gold Plated



Height Overall (mm)	Mounting Hole (mm)	Mfrs List No.	Order Code
11.1	4.4	016-2000-040209	134-7799

209756

Solder pin	Order Code	1+	50+	Price Each		
		100+	250+	500+		
	134-7799	3.21	2.71	2.12	1.87	1.72

1mm Plugs and Sockets

1mm Plug and Sockets

In-Line and Panel



Current Rating 6A
Rated Voltage 30V ac / 60V dc
Termination Solder
Contact Plating Gold
PCB hole for panel mount socket 2.7mm Ø

Mfrs. List No.	Mfrs. List No.
22.2070-22 22.1007 = 122-1004	22.2070-21 22.1008 = 122-1008
22.2070-21 22.1007 = 122-1006	23.1010-22 = 122-5208
22.2070-22 22.1008 = 122-1007	23.1010-21 = 122-5209

442024

Press Fit	Order Code	5 +	50 +	Price Each		
				100 +	250 +	500 +
In-Line Plug						
Red	122-1004 	0.70	0.67	0.64	0.63	0.62
Black	122-1006 	0.70	0.67	0.64	0.63	0.62
In-Line Socket						
Red	122-1007 	1.73	1.68	1.67	1.65	1.61
Black	122-1008 	1.73	1.68	1.67	1.65	1.61
Panel Socket - Press fit						
Red	122-5208 	0.95	0.94	0.91	0.89	0.87
Black	122-5209 	0.99	0.97	0.93	0.91	0.89

£ 40,000 PRICES REDUCED

1mm Plug and Sockets, Mixed colour packs

In-Line and Panel

MC



Colour x 1 per pack: Blue, Green, Yellow, Purple, Brown



Current Rating 6A
 Rated Voltage 30V ac / 60V dc
 Termination Solder
 Contact Plating Gold
 PCB hole for panel mount socket 2.7mm $\varnothing$



Mftrs. List No.
 22.2070-23, 24, 25, 26, 27 + 22.1007 = 122-5206
 22.2070-23, 24, 25, 26, 27 + 22.1008 = 122-5207
 22.1010-23, 24, 25, 26, 27 = 122-5210

442033

Order Code	1+	5+	10+	25+	50+
In-Line Plug					
122-5206	3.27	3.15	3.04	2.98	2.90
In-Line Socket					
122-5207	8.62	8.32	8.26	8.20	8.03
Panel Socket - Press Fit					
122-5210	5.95	5.34	5.06	4.76	4.65

2mm Plugs and Sockets

2mm Plug 6A



Nickel plated brass 2mm pin and flexible shatterproof insulating sleeve. Solder connection. max lead dia. 1.9mm.

L=37, Dia.=4.8

Operating Voltage 50V
 Continuous load Current 6A
 Contact Resistance 6m Ω
 Temperature range -20°C to +60°C
 Housing PVC
 Contacts Brass, Nickel

Mftrs. List No. MST3+Colour

209818

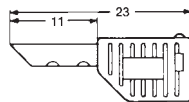
5 Per Pack	Order Code	1+	10+	25+	50+	100+
Red	497-216	2.48	2.17	1.94	1.65	1.54
Black	497-228	2.09	1.82	1.62	1.38	1.30
Red, Black, Blue, Yellow, Green	497-241	2.11	1.84	1.64	1.40	1.31

2mm Hermaphrodite Stackable Plugs 7.5A

MC



W=7.0, H=4.5



Stackable spring hollow tube manufactured from nickel plated beryllium copper

Current rating 7.5A
 Operating voltage 30V ac/60V dc
 Temperature range -40°C to +75°C
 Housing Polyamide 6.6, UL94-HB
 Contacts Beryllium Copper, Nickel plated
 Termination Solder

Mftrs. List No. H291N+Colour

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	108-5441	Green	108-5443	Yellow	108-5445
Black	108-5442	Blue	108-5444	White	108-5446

209718

Order Multiple=5	5+	25+	50+	100+	250+	500+
All colours	1.63	1.30	1.13	0.93	0.81	0.78

2mm Stackable Plugs 10A

MC



Stackable plugs with gold plated multi-leaf bunch spring contacts.

H=5, W=7, L=26.5, Cable entry=2.1, Wire size 0.5mm² max.

Current rating 10A
 Operating voltage 30V ac/60Vdc
 Contact resistance 0.6m Ω
 Temperature range -10°C to +70°C
 Housing Polyamide, UL94V-2
 Contacts Brass, Gold plated
 Multi-leaf Beryllium Copper, Gold plated
 Termination Solder

Mftrs. List No. 22.1004 + 22.2030-x, where x = 1-red, 2-blue, 4-black, 5-yellow, 6-green

209784

5 Per Pack	Order Code	1+	50+	100+	200+
Red	108-5489	8.32	7.04	6.47	5.29
Black	108-5490	8.32	7.04	6.47	5.29
Green	108-5491	8.32	7.04	6.47	5.29
Blue	108-5492	8.32	7.04	6.47	5.29
Yellow	108-5493	8.32	7.04	6.47	5.29

2mm Panel Socket 10A

MC



Low cost panel sockets with spring loaded gold plated contacts

L=23, Dia=6.5max., Panel thickness=8 max.,
 Panel cut-out=5

Current rating 10A
 Voltage rating 30V ac/60V dc
 Contact resistance 3m Ω
 Temperature range -10°C to +80°C
 Housing Polyamide, glass filled, UL94-HB
 Contacts Beryllium Copper Gold Plating
 Termination Solder eylet

209719

10 Per Pack	Order Code	1+	50+	100+	200+
23.0050-22 Red	108-5466	10.80	9.89	8.99	7.19
23.0050-21 Black	108-5467	10.80	9.62	8.99	7.19
23.0050-25 Green	108-5468	12.32	9.89	7.97	6.30
23.0050-23 Blue	108-5469	13.04	10.47	8.44	6.68
23.0050-24 Yellow	108-5470	13.04	10.47	8.44	6.68

2mm 10A



Current rating 10A
 Contact resistance 3m Ω max.
 Temperature range -10°C to +80°C
 Housing PVC/polypropylene
 Contacts Brass, Silver plating
 Termination L1727 Crimp or Solder
 L1737 Crimp or Solder

209720

Mftrs. List No.	Order Code	1+	250+	500+	1K+	2K5+
Plugs						
L1727/RED	942-7082	0.77	0.76	0.75	0.69	0.59
L1727/BLACK	942-7090	0.77	0.76	0.75	0.69	0.59
Panel Sockets						
L1737/RED	317-070	1.95	1.61	1.40	1.23	1.12
L1737/BLACK	317-081	1.95	1.61	1.40	1.23	1.12

2mm PCB Mounting Test Sockets



A range of 2mm PCB mounting test sockets for measurements and testing during operation. Test plug can be inserted horizontally from either end and vertically.
 Dimensions as per DIN 41 649.

H=5.8 (above PCB), L=10.25,
 Fixing centres=10, PCB hole dia.=1.3

Continuous load current 6A
 Contact resistance 6m Ω
 Temperature range -20°C to +60°C
 Housing Makrolon 2800, UL94V-2
 Contacts Bronze, Tin plated

Mftrs. List No. MPB1+Colour

209814

5 Per Pack	Order Code	1+	10+	25+	50+	100+
Red	497-150	2.71	2.37	2.11	1.83	1.70
Black	497-162	2.71	2.37	2.11	1.83	1.70

2mm PCB Mounting Test Sockets



A range of 2mm PCB mounting test sockets manufactured in moulded nylon and fitted with gold plated beryllium copper contacts. The test plugs may be inserted from either end.

H=5.16 (above PCB),
 W=3.96, L=11.51, Fixing centres=10.16

Maximum current rating 5A dc
 Maximum contact resistance 5m Ω

Mftrs. List No. M1352+Colour

209721

Order Multiple=10	Order Code	10+	20+	100+	500+
M1352F98 Black	145-305	0.93	0.87	0.75	0.62
M1352F99 Red	145-306	0.93	0.87	0.75	0.62
M1352F94 White	145-307	0.62	--	--	--

Over 480,000 products online



2mm Plugs and Sockets - continued

2mm Shrouded Sockets

MC



Panel cut out (press fit)=8.2 (screw fixing)=8.6
Panel thickness min. 1.5 max. 10 (without spacer) min 1.5 max 6 (with spacer)

- Available in press fit or screw fixing
 - IEC1010-2-031 compliant
 - PCB/solder pin contact (L=8 Dia=2)
 - Gold plated contacts
 - Screw fixing version can be flush (2mm proud) or stand-off surface mounted (6.4 proud with stand off spacer)
- Working voltage 600V/CATIII maximum current 10A

222458

Press Fit	Mftrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
Black	65.9193-21	108-5552	1.74	1.65	1.59	1.38
Red	65.9193-22	108-5553	1.79	1.70	1.63	1.42
Screw Fixing						
Black	65.9194-21	108-5555	2.16	2.04	1.98	1.74
Red	65.9194-22	108-5556	2.10	1.99	1.93	1.69

2mm Jumper Plugs & Socket Strips

MC



- 20-pole socket strips for high quality test panels
- Jumper plugs with MC-Multilam for vibration proof contacts
- Insulated 2mm jumper plugs
- Gold plating offers low contact and corrosion resistance

- Socket / pin spacings of 6mm & 12mm
- Ideally suited for saving space in applications such as panels for testing and servicing in the aviation industry

Specifications:-
Current Rating 10A
Contact Plating Gold
Voltage Rating 33VAC / 70VDC
Termination Method Solder

528661

Colour	Mftrs. List No.	Order Code	1+	10+	50+		
Socket Strips, 20 Pole, 6mm Grid Spacing							
Red	63.9356-22	167-7188	14.95	13.59	12.46		
Black	63.9356-21	167-7189	14.95	13.59	12.46		
Socket Strips, 20 Pole, 12mm Grid Spacing							
Red	63.9358-22	167-7190	14.95	13.59	12.46		
Black	63.9358-21	167-7191	14.95	13.59	12.46		
Colour	Mftrs. List no.	Order Code	1+	10+	25+	50+	100+
Jumper Plugs, 6mm Pin Spacing							
Red	63.9352-22	167-7192	3.11	2.85	2.63	2.44	2.28
Black	63.9352-21	167-7193	3.11	2.85	2.63	2.44	2.28
Jumper Plugs, 12mm Pin Spacing							
Red	63.9354-22	167-7194	3.11	2.85	2.63	2.44	2.28
Black	63.9354.21	167-7195	3.11	2.85	2.63	2.44	2.28

19

2.3mm Test Plugs

2.3mm Test Plugs

Red and Black

MC



Plug in adaptor / test plug suitable for installation into terminals with M3 thread.
● Designed to give strong holding force
● Provides 4.0mm touch-proof connection point

Current Rating 25A
Rated Voltage 30V ac / 60V dc
Temperature range -40°C to +80°C
Insulation PA
Contacts Brass/Silver plated

238728

Colour	Mftrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
Black	24.0100-21	108-5520	4.98	4.53	4.40	4.02
Red	24.0100-22	413-0248	5.26	4.79	4.61	4.23

Over 480,000 products online



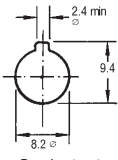
3mm Connectors

3mm 10A



317-093
L=30.6, Dia=11.2

317-111



Panel cut-out

Uses the O-Z principle which is devised to provide particularly low resistance so that heavy current contacts will not jump out under vibration.

Break down voltage 5kV dc
Current rating 10A
Maximum temperature +85°C
Housing Polypropylene
Maximum cable entry for L378A3 4mm

209722

	Mftrs. List No.	Order Code	Price Each			
			1+	100+	250+	500+
Free Plug	L378A/3/RED	317-093	2.03	1.92	1.72	1.55
	L378A/3/BLACK	317-100	2.03	1.90	1.72	1.56
Panel Socket	L1317/RED	317-111	1.48	1.33	1.23	1.08
	L1317/BLACK	317-123	1.48	1.33	1.23	1.08

4mm Plugs and Sockets



4mm Couplers



Socket to socket
L=44,
Dia.=10
Free socket
solder termination
L=48, Dia.=11

Insulated couplers for two 4mm dia. plugs or one plug and wire with solder connection.

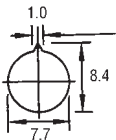
Operating voltage 60V dc
Continuous load current 10A
Contact resistance 5mΩ max
Temperature range -25°C to +70°C
Housing PVC UL94-HB
PVC (KUN30)
Contacts Brass, Nickel plated
Max wire size solder 2.5mm²
Max wire size screw 1.5mm²

Mftrs. List No. KD10+colour Socket to socket, KUN30+colour Free socket, solder terminal, KUN10+colour Free Socket, Screw Terminal

209806

5 Per Pack	Order Code	Price Per Pack				
		1+	10+	25+	50+	100+
Socket to Socket	Red 117-6447	3.38	2.96	2.61	2.26	2.11
	Black 117-6448	3.38	2.96	2.61	2.26	2.11
Free Socket, Solder	Red 117-6449	3.49	3.05	2.72	2.35	2.28
	Black 117-6450	3.49	3.05	2.72	2.35	2.28
Free Socket, Screw	Red 810-162	4.77	3.68	2.91	2.75	2.56
	Black 810-150	4.22	3.13	2.47	2.34	2.17

4mm 10A



Mounting hole dimensions

Plug: Cover length=34, Cover dia = 6.5, Overall length = 45
Socket: L = 28, Dia = 12
Maximum panel thickness = 13.5

A low cost range of 4mm plugs and sockets featuring slim style plugs and small diameter sockets enabling increased stacking density.

Mftrs. List No. Plugs P14+Colour, Sockets S14+Colour

Free Plugs		Free Sockets	
Colour	Order Code	Colour	Order Code
Red	143-556	Green	143-558
Black	143-557	Blue	143-559
		Yellow	143-560
		White	143-561

Order Multiple=5		Price Each				
Order Code		5+	50+	100+	250+	500+
All Colours		0.260	0.210	0.200	0.176	0.163

Panel Sockets		Panel Sockets	
Colour	Order Code	Colour	Order Code
Red	145-299	Green	145-301
Black	145-300	Blue	145-302
		Yellow	145-303
		White	145-304

209723



Order Multiple=5					
Order Code	5+	50+	100+	250+	500+
All Colours	0.39	0.34	0.32	0.28	0.27

4mm Plugs 10A



A range of tubular turned contact 4mm plugs with stainless steel spring contacts. They feature robust tubular solder bucket termination, enabling the plugs to be re-used many times.

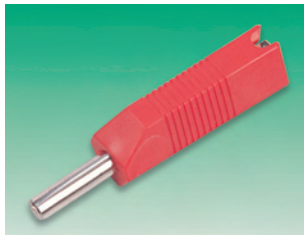
L=43.5, Dia=8

Current rating	10A	Contacts:	Body	Brass, nickel plated	
Housing	Acetal		Spring	Stainless steel	
Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	110-1098	Green	110-1102	Yellow	110-1104
Black	110-1101	Blue	110-1103	White	110-1105

209724

Order Multiple=5					
Order Code	5+	10+	100+	250+	500+
All colours	0.41	0.39	0.38	0.34	0.32

4mm Stackable Plugs 10A



A range of solid turned contact 4mm plugs with a 4mm socket in the rear. Cable connection options, solder or screw (grub screw is accessed via socket tube), cable entry up to 1.5mm² cross section.

Contacts: Body Spring Brass, nickel plated
Stainless steel

Current rating 10A
Housing PVC

L=50, W=10, H=11.5

Mftrs. List No: 553-0500-01 = 110-1099 553-0400-01 = 110-1107 553-0700-01 = 110-1111
553-0100-01 = 110-1106 553-0200-01 = 110-1108 553-0600-01 = 110-1112

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	110-1099	Green	110-1107	Yellow	110-1111
Black	110-1106	Blue	110-1108	White	110-1112

209725

Order Multiple=5					
Order Code	5+	50+	100+	250+	500+
All colours	0.64	0.61	0.59	0.55	0.52

4mm Triple Contact Plug 10A



The screw-on cover has a large cable entry for audio or test leads and can be fitted after the lead has been made up. The plug has a low mating resistance and screw termination.

L=50, Dia=10, Cable entry=7.1,
Wire dia=3.5 max

Housing Acetal Current rating 10A
Contacts Brass, Nickel plated

Mftrs. List No: 557-0500-01 = 110-1135 557-0100-01 = 110-1136

209726

Order Multiple=5					
Colour	Order Code	5+	50+	100+	250+
Red	110-1135	0.42	0.39	0.38	0.36
Black	110-1136	0.42	0.39	0.38	0.36

4mm Bunch Pin Plugs 20A



The plug features multi-spring bunch pin contacts and a 4mm cross hole to enable multiple connections to one socket.

Current rating 20A
Housing PVC

Contacts Brass, Nickel plated

Mftrs. List No. 555+Colour

L=60, Dia=10

Colour	Order Code	Colour	Order Code
Red	110-1120	Blue	110-1124
Black	110-1121	Yellow	110-1125
Green	110-1123	White	110-1126

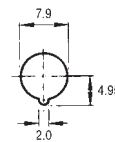
209727

Order Code	1+	50+	100+	250+	500+
All colours	1.25	1.23	1.19	1.08	0.99

4mm Panel Sockets 10A



L=29, Dia=11.5,
Panel thickness=13 max.



A range of 4mm panel mounting sockets suitable for 4mm single pole, stackable or standard plugs. The turned contacts feature robust solder buckets for ease of solder termination.

Contacts Brass, Tin plated

Current rating 10A
Housing Polypropylene

Mftrs. List No: 563-0500-01 = 110-1100 563-0400-01 = 110-1115 563-0700-01 = 110-1118
563-0100-01 = 110-1113 563-0200-01 = 110-1117 563-0600-01 = 110-1119

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	110-1100	Green	110-1115	Yellow	110-1118
Black	110-1113	Blue	110-1117	White	110-1119

209728

Order Multiple=5

Order Code	5+	50+	100+	250+	500+
All colours	0.42	0.40	0.39	0.37	0.34

4mm PCB Sockets 10A



A range of 4mm PCB sockets with two pin through board termination, providing good stability. The sockets are side stackable with dovetail locators.

H=12.2, W=10, D=23.5, Fixing centres=15.5 x
1.8 dia
Socket hole centre=7.5 above board

Current rating 10A
Housing Polypropylene

Mftrs. List No: 571-0500-01 = 110-1127 571-0400-01 = 110-1129 571-0700-01 = 110-1131
571-0100-01 = 110-1128 571-0200-01 = 110-1130 571-0600-01 = 110-1132

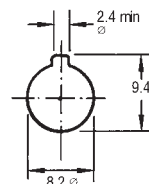
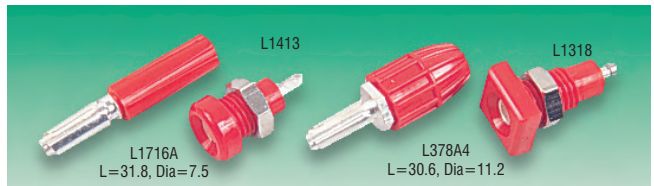
Red	110-1127	Green	110-1129	Yellow	110-1131
Black	110-1128	Blue	110-1130	White	110-1132

209729

Order Multiple=5

Order Code	5+	50+	100+	250+	500+
All colours	0.56	0.50	0.48	0.41	0.38

4mm 10A



Uses the O-Z principle which is devised to provide particularly low resistance, so that heavy current contacts will not jump out under vibration.

Housing Polypropylene
Maximum cable entry for L378A4 and L1716A 4mm

Breakdown voltage 5kV dc
Current rating 10A
Maximum temperature 85°C

209730

Colour	Mftrs. List No.	Order Code	1+	100+	500+	1K+
Slim Plug						
Red	L1716A/RED	317-135	1.92	1.59	1.43	1.26
Black	L1716A/BLACK	317-147	1.92	1.59	1.43	1.26
Circular Panel Socket						
Red	L1413/RED	317-159	1.05	0.99	0.86	0.84
Black	L1413/BLACK	317-160	1.05	0.99	0.86	0.84
Standard Plug						
Red	L378A4/RED	317-172	2.01	1.87	1.72	1.54
Black	L378A4/BLACK	317-184	2.01	1.87	1.72	1.54
Square Panel Socket						
Red	L1318/RED	317-226	1.20	1.09	1.01	0.85
Black	L1318/BLACK	317-238	1.20	1.09	1.01	0.85

Electronics Design World



...it's where Design Engineers go!

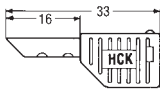
For the latest news, technology and support tools, visit:
www.electronicdesignworld.com



4mm Plugs and Sockets - continued

4mm Hermaphrodite Stackable Plugs 20A

MC



H=12.0, W=8.0

Current rating	20A	Housing	Polyamide 6.6, UL94-HB
Operating voltage	60V dc ac/60V dc	Contacts	Beryllium Copper, Nickel plated
Temperature range	-40°C to +75°C	Termination	Solder

Mfrs. List No. H491N+Colour

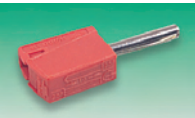
Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	108-5431	Green	108-5432	Yellow	108-5434
Black	108-5430	Blue	108-5433	White	108-5435

209731

Order Multiple=5

Order Code	5+	50+	Price Each	100+	250+	500+
All colours	2.75	2.67	2.60	2.53	2.47	

4mm Cage Clamp Plugs 20A



Cage clamp mechanism

H=15, W=8, L=40

Push to insert/release wire

The spring cage clamp is vibration proof, reliable and fast to operate. Simply strip the insulation back to 10mm and insert the wire by pressing the housing together fully. The cage clamp can accept either stranded or solid wire yet still have the same retaining force as a standard screw terminal.

Current rating	20A	Housing	Nylon 6.6
Operating voltage	380Vac (Group B)	Contacts	Copper, Tin plated
Contact resistance	1.2mΩ	Temp. range	-40°C to +105°C
Test voltage	2500V		

Mfrs. List Nos: 51174966 = 128-3539 215-411 = 128-3541
50077010 = 128-3540

209770

5 Per Pack	Order Code	1+	10+	20+	50+	100+
Colour						
Red	128-3539	4.91	4.48	4.17	3.78	3.43
Black	128-3540	4.91	4.48	4.17	3.78	3.43
Green	128-3541	4.91	4.48	4.17	3.78	3.43

4mm Plugs 16A



Fully mating universal plugs with shatter-proof insulating sleeve. The sleeve narrows at the end to prevent cable buckling. Available with or without 4mm transverse hole and screw terminations.

Operating voltage	50V
Continuous load current	16A
Contact resistance	3mΩ
Temperature range	-25°C to +70°C
Housing	PVC
Contacts	Brass, Nickel plated

Mfrs. List No. VON20+Colour, no hole, Screw-terminal
VON30+Colour, no hole, Solder-terminal
VQ20+colour, transverse hole, Screw-terminal
VQ30+colour, transverse hole, Solder-terminal

209808

5 Per Pack	Order Code	1+	10+	Price Per Pack	25+	50+	100+
4mm Plug, Screw Terminal							
Black	125-6515	3.58	3.12	2.78	2.42	2.25	
Red	125-6514	3.58	3.12	2.78	2.42	2.25	
4mm Plug, Solder							
Black	125-6522	3.25	2.42	1.93	1.81	1.79	
Red	125-6523	3.67	2.74	2.17	2.05	1.75	
4mm Plug with Transverse Hole							
Black	125-6517	4.12	3.56	3.21	2.74	2.57	
Red	125-6516	4.12	3.56	3.21	2.74	2.57	
Blue	117-6473	4.01	3.47	3.13	2.67	2.50	
Yellow	125-6502	4.01	3.47	3.13	2.67	2.50	
Green	125-6503	4.01	3.47	3.13	2.67	2.50	
Assorted	125-6519	4.04	3.50	3.15	2.69	2.53	
4mm Plug, Transverse Hole, Solder							
Black	117-6474	3.25	2.14	2.02	1.92	1.79	
Red	117-6475	3.25	2.14	2.02	1.92	1.79	
Blue	117-6476	3.68	2.47	2.32	2.19	2.05	

4mm Plugs 32A



- Laminated shatter-proof plug
- Caged spring and tapering sleeve
- Soldered connections up to 2.5sqmm²
- Cable diameters up to 4.2mm²

Rated voltage	60V dc	Current rating	32A
Contact resistance	3mΩ		
Temperature range	-25°C to +70°C		

Mfrs. List No. 972518-100 (black), 9725178-101 (red)

210045

5 Per Pack	Order Code	1+	10+	Price Per Pack	25+	50+	100+
Colour							
Red	125-6511	4.90	3.25	3.06	2.99	2.84	
Black	125-6513	4.90	3.25	3.06	2.99	2.84	

4mm Bunch Pin Plugs 16A



Multiple-spring wire plug with shatter-proof flexible insulating sleeve and transverse 4mm hole. The sleeve narrows to prevent cable buckling. Solder or screw connection up to max. cross-section 1.5mm²

Operating voltage	60V dc
Continuous load current	16A
Contact resistance	3mΩ

Solder termination	L=60.5, Dia.=11	Temperature range	-25°C to +70°C
Screw termination		Housing	PVC
		Material	Brass, Nickel plated

Mfrs. List No. BULA 20K + colour (screw), BULA 30K + colour (solder)

209807

5 Per Pack	Order Code	1+	10+	Price Per Pack	25+	50+	100+
Screw Termination							
Red	117-6439	4.06	3.51	3.12	2.72	2.52	
Black	117-6440	4.06	3.51	3.12	2.72	2.52	
Blue	117-6477	4.06	3.51	3.12	2.72	2.52	
Yellow	125-6505	4.06	3.51	3.12	2.72	2.52	
Green	125-6508	4.06	3.51	3.12	2.72	2.52	
Assorted	117-6442	4.06	3.51	3.12	2.72	2.52	
Solder Termination							
Red	117-6443	3.67	3.18	2.84	2.45	2.30	
Black	117-6445	3.67	3.18	2.84	2.45	2.30	
Blue	117-6478	3.67	3.18	2.84	2.45	2.30	
Yellow	125-6509	3.67	3.18	2.84	2.45	2.30	
Green	125-6510	3.56	3.10	2.77	2.39	2.23	
Assorted	117-6446	3.67	3.18	2.84	2.45	2.30	

FOR MORE INFORMATION & CHOICE

Product Search

Bunch Pin Plugs



RoHS Compliant Items Only | Advanced Search

4mm Stackable Bunch Pin Plugs 30A



Universal plugs with cable inserted longitudinally or at right angles. Screw connection up to a maximum cable cross section of 2.5mm²

L=59

Operating voltage	60V dc	Temperature range	-25°C to +100°C
Continuous load current	30A	Housing	Hostalen
Contact resistance	3mΩ	Contacts	Brass, Nickel plated

Mfrs. List No. VSB20+Colour Massive connector, screw terminal
BSB20K+Colour Multiple Spring Wire Connector, screw terminal

209809

5 Per Pack	Order Code	1+	10+	Price Per Pack	25+	50+	100+
VSB20							
Red	809-998	6.19	4.10	3.86	3.65	3.37	
Black	809-986	6.19	4.10	3.86	3.65	3.37	
Blue	810-009	6.19	4.10	3.86	3.65	3.37	
Yellow	400-2910	6.19	4.10	3.86	3.65	3.37	
Green	400-2921	6.19	4.10	3.86	3.65	3.37	
BSB20							
Red	117-6434	6.24	5.41	4.83	4.19	3.90	
Black	117-6435	6.24	5.41	4.83	4.19	3.90	
Blue	810-010	5.57	3.67	3.56	3.50	3.44	
Yellow	400-2933	5.57	3.67	3.56	3.50	3.44	
Green	400-2945	5.57	3.67	3.56	3.50	3.44	

4mm Stackable Connectors with Screw Connection

LAS N WS Series



- 4mm stackable connectors with caged spring
- Screw connection for leads from 0.5 mm² to 1.5 mm²
- Maximum outer diameter of lead 4.2 mm
- Simple assembly by 'Click System' without the need for a specialised tool

Rated voltage: 60V DC
Rated current: 24A
Contact resistance: 3mΩ
Contact material: Nickel plated copper beryllium

Housing material: PA
Flammability: UL94-HB
Operating temperature: -15°C to +70°C

415662

Colour	Order Code	Price Each			
		1+	10+	25+	50+
Black	101-1423	1.43	1.28	1.14	1.05
Red	101-1424	1.43	1.28	1.14	1.05
Blue	101-1425	1.46	1.30	1.16	1.07
Yellow	101-1426	1.43	1.28	1.14	1.05
Green	101-1427	1.43	1.28	1.14	1.05

4mm Panel Sockets 16A



Closed socket
Panel thickness=2 max.
L=23.5, Dia=10
Cut-out=8

Closed socket
Panel thickness=4 max.
L=23.5, Dia=10
Cut-out=8

Closed sockets are available for different panel thicknesses and can also be solder terminated.

Working voltage: 60V dc dc
Temperature range: -25°C to +85°C
Current rating: 32A
Flashover: 1500V max.
Contact resistance: 5mΩ

Contacts: Brass, Nickel plated
Terminations: Solder (closed sockets)

224276

5 Per Pack	Order Code	1+	10+	25+	50+	100+
Closed Socket, 2mm Panel Thickness						
Red	117-6427	3.82	3.33	2.97	2.56	2.38
Black	117-6428	3.82	3.33	2.97	2.56	2.38
Blue	117-6429	3.82	3.33	2.97	2.56	2.38
Yellow	859-084	3.82	3.33	2.97	2.56	2.38
Green	871-760	3.82	3.33	2.97	2.56	2.38
Closed Socket, 4mm Panel Thickness						
White	871-837	3.82	3.33	2.97	2.56	2.38
Red	117-6430	4.00	3.35	2.99	2.61	2.41
Black	117-6431	4.00	3.35	2.99	2.61	2.41

4mm Non-Insulated Panel Socket 16A



Operating voltage: 50V dc
Continuous load current: 16A
Contact resistance: 5mΩ
Temperature range: -25°C to +100°C
Material: Brass, Nickel plated

Overall length=BU10=22, BU20=27
Installation=M6 x 0.75

Mfrs. List No. BU10, BU20

209822

5 Per Pack	Order Code	1+	10+	25+	50+	100+
BO10	117-6433	2.61	2.25	1.99	1.73	1.60
BU10	117-6436	3.45	3.00	2.67	2.31	2.16
BU20	810-289	10.15	8.68	7.33	6.06	5.36

4mm, Non-Insulated Panel Socket 16A



Suitable for insulated panels and colour coded for identification.
Overall length=24, Installation=M6 x 0.75

Operating voltage: 60V dc
Continuous load current: 16A
Contact resistance: 5mΩ
Temperature range: -25°C to +85°C
Contacts: Brass, Nickel plated

Mfrs. List No. BUG 10+ Colour

209812

5 Per Pack	Order Code	1+	10+	25+	50+	100+
Red	117-6437	3.83	3.33	2.98	2.57	2.40
Black	117-6438	3.93	3.42	3.07	2.65	2.46
Assorted	117-6441	3.78	3.27	2.93	2.52	2.37

4mm Shrouded Panel Sockets 35A



- Pole terminal with claw edge and captive insulated head
- 4mm diameter nickel-plated brass threaded bolt with 2mm diameter transverse hole
- For insulated, non-rotating installation in equipment chassis with a wall thickness up to 2mm

Rated voltage: 60V
Current rating: 35A
Contact resistance: 2mΩ
Temperature Range: -25°C to +100°C

Mfrs. List No. 930103-100 (black), 930103-01 (red), 930103-102 (blue), 930103-103 (yellow), 930103-104 (green), 930103-188 (yellow/green)

210044

5 Per Pack	Order Code	1+	10+	25+	50+	100+
Colour						
PK110A BLUE	Blue	401-7705	8.10	7.04	5.60	5.28
PK110A YELLOW	Yellow	401-7717	7.22	6.02	4.79	4.51
PK110A GREEN	Green	401-7729	8.10	7.26	6.58	6.03
PK110A YEL/GRN	Yellow / Green	401-7730	10.02	8.35	6.62	6.25
PK110A RED	Red	401-7742	8.10	7.04	5.60	5.28
PK110A BLACK	Black	401-7754	8.10	7.04	5.60	5.28

4mm Shrouded Panel Sockets 16A



- Pole terminal with claw edge and captive insulated head
- Insulation ring
- 4mm diameter nickel-plated brass threaded bolt with 2mm diameter transverse hole
- For insulated, non-rotating installation in equipment chassis with a wall thickness upto 3.5mm

Contact resistance: 2mΩ
Temperature range: -25°C to +100°C
Rated voltage: 60V
Current rating: 16A

Mfrs. List No. 931714-101 (red), 931714-102 (blue), 931714-103 (yellow), 931714-104 (green).

210047

5 Per Pack	Order Code	1+	10+	25+	50+	100+
Colour						
Black	117-6479	7.00	5.85	4.62	4.39	3.82
Red	117-6480	7.00	5.85	4.62	4.39	3.82

4mm Shrouded Panel Sockets 16A



- Pole terminal with captive insulated head
- Crinkle washer for vibration proof fixing
- 4mm diameter nickel-plated brass threaded bolt with 2mm diameter transverse hole
- For insulated, non-rotating installation in equipment chassis with a wall thickness upto 3.5mm
- Approval, TUV

Rated voltage: 60V
Current rating: 35A
Contact resistance: 2mΩ
Temperature range: -25°C to +100°C

Mfrs. List No. = PKI 100 + colour

210048

5 Per Pack	Order Code	1+	10+	25+	50+	100+
Colour						
Black	125-6525	7.90	6.58	5.18	4.89	4.28
Red	125-6526	7.90	6.58	5.19	4.89	4.28
Green	125-6500	8.92	7.44	5.87	5.54	4.86

PCB Mount RA Safety Sockets

4.0mm



Fully insulated safety universal socket for accepting 4mm safety leads or any other 4mm plug

- 2mm round pin for PCB mounting
- High contact reliability

Current Rating: 24A
Rated Voltage: 1000V CAT III
Temperature range: -40°C to +80°C
Insulation: PA

Current Rating: 24A
Rated Voltage: 1000V CAT III
Contacts: Brass, Gold plated

238729

Colour	Mfrs. List No.	Order Code	1+	10+	50+	100+
Black	23.3200-21	108-5521	3.66	3.59	3.53	3.46
Red	23.3200-22	413-0261	3.67	3.60	3.54	3.47

4mm Plugs and Sockets - continued

4mm PCB Sockets 16A



4mm test sockets for PCB measurement and testing during operation. Side stackable and can be screwed on to board with a self-tapping screw from the underside.

H=10.5, W=7.5, D=21, Fixing centres=17.5 x 1.2 dia.
Socket hole centre=7 (above board)

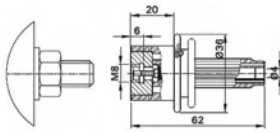
Operating voltage	50V dc	Temperature range	-25°C to +85°C
Continuous load current	16A	Housing	Makrolon, UL94V-1
Contact resistance	5mΩ	Contact material	Brass, Tin plated

Mfrs. List No. PB 4+ Colour

5 Per Pack		Price Per Pack				
	Order Code	1+	10+	25+	50+	100+
Black	497-344	6.97	6.06	5.39	4.66	4.37
Red	497-332	6.97	6.06	5.39	4.66	4.37

209817

Screw-On Adapters



- Insulated adapters with internal thread for rapid & safe contact to threaded bolts
- Contact is made by spring loaded tip
- 4mmØ rigid socket in insulator accepting spring loaded 4mmØ plugs with rigid insulating sleeve

Specifications:-			
Current Rating	1A	Voltage Rating	1000V
Contact Material	Brass	Contact Plating	Gold over Nickel

528664

			Price Each				
Size	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
M8	20.2040-21,22,23,24,25	167-7537	19.83	18.66	17.96	17.00	15.86
M12	20.2000-21,22,23,24,25	167-7538	19.83	18.66	17.96	17.00	15.86
M16	20.2010-21,22,23,24,25	167-7539	19.83	18.66	17.96	17.00	15.86

Magnetic Contact Adapter



- Spring loaded tip
- To be used with magnetic steel bolts
- 4mmØ rigid socket in insulator
- Accepts spring loaded 4mmØ plugs with rigid insulating sleeve

Specifications:-			
Current Rating	1A	Voltage Rating	1000V
Contact Material	Brass	Contact Plating	Gold

528667

			Price Each				
Size	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
M12	20.2020-21,22,23,24,25	167-7540	22.21	20.90	20.11	19.04	17.77

Adapter for Hex. Screw Heads



- Self gripping adapter
- Spring loaded tip for M12 hex. screw heads
- 4mmØ rigid socket in insulator
- Accepts spring loaded 4mmØ plugs with rigid insulating sleeve

Specifications:-			
Current Rating	1A	Voltage Rating	1000V
Contact Material	Brass	Contact Plating	Gold

528668

			Price Each				
Size	Mftrs. List No.	Order Code	1+	10+	25+	50+	100+
M12	20.2030-21,22,23,24,25	167-7541	22.39	21.08	20.28	19.19	17.91

Magnetic Adapters



- Magnetic adapter for connection of screw heads
- Rigid 4mmØ socket in insulator
- Accepts spring loaded 4mmØ plugs with rigid insulating sleeve
- 7mm / 11mm magnet Ø available

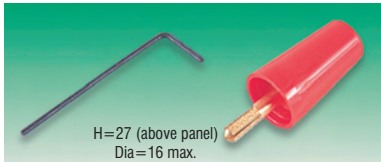
Specifications:-			
Current Rating	2A	Voltage Rating	1000V
Contact Plating	Nickel		

528669

		Price Each					
Colour	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
7mm Magnet 							
Red	66.9516-22	167-7542 	12.23	11.51	11.08	10.49	9.79
Black	66.9516-21	167-7543 	12.23	11.51	11.08	10.49	9.79
11mm Magnet 							
Red	66.9515-22	167-7544 	12.23	11.51	11.08	10.49	9.79
Black	66.9515-21	167-7545 	12.23	11.51	11.08	10.49	9.79

4mm Shrouded Connectors

Adaptor



H=27 (above panel)
Dia=16 max.

Converts standard 4mm sockets into 4mm shrouded sockets. Covers existing 4mm sockets up to 13.5 dia. and 5mm high. The expanding brass plug has an internal grub screw to secure the assembly in 4mm diameter sockets. Allen key supplied.

Current rating	32A	Housing	Polyamide, UL94V-2
Operating voltage	1000V/CAT II	Contacts	Brass, Gold plated
Contact resistance	0.3mΩ	Temperature range	-40°C to +80°C

Mfrs. List No. 24.0160-x, where x = 1 - red, 4 - black

209792

2 Per Pack + Allen key		Price Per Pack				
Colour	Order Code	1+	10+	25+	50+	100+
Red	462-858	3.68	3.48	3.41	3.10	2.82
Black	462-860	3.56	3.37	3.30	3.01	2.73

4mm Shrouded Panel Sockets 16A



- Pole terminal with captive insulated head
- Crinkle washer for vibration proof fixing
- 4mm diameter nickel-plated brass threaded bolt with 2mm diameter transverse hole
- For insulated, non-rotating installation in equipment chassis with a wall thickness upto 3.5mm
- Approval, TUV

Rated voltage	60V	Contact resistance	2mΩ
Current rating	35A	Temperature range	-25°C to +100°C

Mfrs. List No. = PK1 100 + colour

210048

5 Per Pack		Price Per Pack				
Colour	Order Code	1+	10+	25+	50+	100+
Black	125-6525	7.90	6.58	5.18	4.89	4.28
Red	125-6526	7.90	6.58	5.19	4.89	4.28
Green	125-6500	8.92	7.44	5.87	5.54	4.86

Shrouded Plugs



Overall length=50, Diameter=8.5,
Cable entry=4.0, Wire size=2.5mm² max.

Streamline fully insulated safety plugs with fixed shroud. The centre pin has an insulated tip and multi-leaf bunch spring contact. Suitable for use with shrouded sockets. Manufactured to VDE0100/0110 and BG approved.

Current rating	32A	Housing	Polyamide, UL94V-2
Operating voltage	1000V	Contacts	Brass, Gold plated
Contact resistance	0.3mΩ	Termination	Solder Bucket
Temperature range	-10°C to +70°C		

209759

		Price Per Pack			
Colour	Order Code	1+	10+	20+	50+
Red	108-5461	9.93	8.98	8.31	6.92
Black	108-5462	9.93	8.98	8.31	6.92

Stackable Shrouded Plugs 32A



H=17, W=10, L=53,
Cable entry=4.0, Wire size=2.5mm² max.

Fully insulated safety plugs with (non-removable) shroud. The centre pin has an insulated tip and multi-leaf bunch spring contact. Suitable for use with shrouded sockets. Manufactured to VDE 0100/0110, IEC1010-1 and BG approved.

Current rating	32A	Housing	Polyamide, UL94V-2
Operating voltage	1000V/ CAT II	Contacts	Brass, Gold plated
Contact resistance	0.3mΩ	Termination	Solder
Temperature range	-10°C to +80°C		

209734

5 Per Pack	Order Code	1+	10+	20+	50+
Colour					
Red	108-5471	11.92	10.78	10.58	9.53
Black	108-5472	11.92	10.78	10.58	9.53
Green	108-5473	11.92	10.78	10.58	9.53
Blue	108-5474	12.74	11.29	10.80	9.57
Yellow	108-5476	11.96	10.85	10.64	9.57
White	108-5477	12.74	11.29	10.80	9.57

Stackable Shrouded Plugs 20A



H = 24, W = 10, L = 63

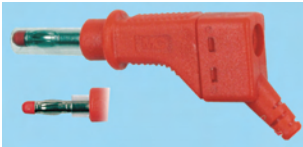
A range of stackable fully insulated plugs. The centre conductor features an insulated tip and multi-leaf bunch spring contact to the plug and a solid tube socket. Cable connection options, solder or screw (grub screw is accessed via socket tube), cable entry up to 1mm² cross section.

Current Rating	20A	Housing	Polyamide 66, UL94-HB
Operating Voltage	1000V CATII	Contacts	Brass, nickel plated
Temperature Range	-40°C to +75°C	Termination	Solder Bucket / Screw

209733

Colour	Mfrs. List No.	Order Code	5+	50+	100+	250+	500+
Red	66.9649-22	108-5447	3.13	2.59	2.37	1.96	1.85
Black	66.9649-21	108-5449	3.13	2.59	2.37	1.96	1.85
Green	66.9649-25	108-5452	2.40	2.13	1.92	1.75	1.60
Blue	66.9649-23	108-5453	3.05	2.52	2.30	1.91	1.80

Retractable Shrouded Plugs 32A



- A 4mm stackable plug,
- CATII rating
- Screw connection for standard cable up to 2.5mm²
- Finger guard prevents accidental contact with live parts

Current Rating	32A	Contacts	, nickel plated
Voltage Rating	600V CATII	Termination	Screw
Housing	Polyamide		

Mfrs. List No: 66.9328-XX where XX = 21-Black,22-Red,23-Blue, 24-Yellow, 25-Green

Colour	Order Code	Colour	Order Code	Colour	Order Code
Black	108-4852	Red	108-4853	Blue	108-4854
Yellow	108-4855	Green	108-4856		

342570

Order Code	1+	10+	50+	100+	250+
All Colours	5.82	4.87	4.35	3.72	3.53

Retractable Shroud Plugs 32A



H = 15, W = 9.5, L = 53, Cable entry = 4.0

A 4mm stackable plug offering protection against accidental touching. A transparent sleeve over the multi-leaf bunch spring contact is spring loaded and retracts when the plug is connected into 4mm standard or shrouded sockets. A high temperature iron is required to attach the cable.

Current Rating	32A	Housing	Polyamide, UL94V-2
Operating Voltage	30Vac/60Vdc	Contacts	Brass, nickel plated
Contact resistance	1.8mΩ	Termination	Solder
Temperature Range	-10°C to +70°C		

Mfrs. List No: 22.1035 + 22.2340-22 = 108-5464 22.1035 + 22.2340-21 = 108-5465

MC

MC

MC

MC

5 Per Pack

Colour	Order Code	1+	10+	20+	50+
Red	108-5464	12.95	11.69	10.74	9.03
Black	108-5465	12.95	11.69	10.74	9.03

Right Angle Shrouded Plugs 32A



Height = 16 (above socket), W = 9.5, D = 32,
Cable entry = 4.0

Nickel plated fully insulated plugs with non-removable shrouds. The centre pin has an insulated tip and multi-leaf bunch spring contact. Suitable for use with shrouded sockets.

Current Rating	32A	Housing	Polyamide, UL94V-2
Operating Voltage	1000 CATIIV	Contacts	Brass, nickel plated
Contact resistance	0.3mΩ	Termination	Solder
Temperature Range	-40°C to +80°C		

209794

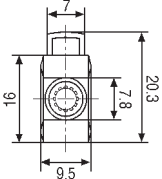
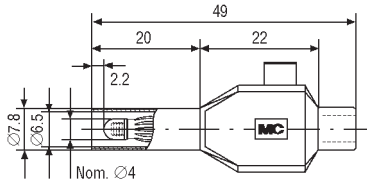
5 Per Pack	Order Code	1+	10+	20+	50+
Colour					
Red	108-5531	13.92	12.20	11.63	9.66
Black	108-5532	14.27	12.51	11.92	9.90

Shrouded Clip-on Lead Plug



- Used for clamp connection of shrouded wires 0.12 to 2.5mm²
- Fully insulated plug, non-removable shroud
- Suitable for use with shrouded sockets

H = 19, W = 9.5, L = 42



209828

Order Multiple=2

Colour	Mfrs. List No.	Order Code	2+	50+	100+	250+	500+
Red	22.3007-22	108-5557	6.17	5.10	4.72	3.89	3.53
Black	22.3007-21	108-5559	5.99	4.93	4.56	3.75	3.42

Shrouded Sockets 24A



Press-Fit

Panel cut-out = 12.2±0.1
Panel thickness ≥1 metal ≥2 plastic

Screw Mount

Panel cut-out = 12 (M12 thread)
Panel thickness = 7 max.

Tab size = 4.8 x 0.8, Depth behind panel = 21 (terminal at 90°), Dia = 14.5 max.

Screw mount or press-fit insulated safety sockets for use with shrouded plugs. The 4.8mm tabs can be bent to 90°, once only where space is restricted.

Current Rating	24A	Housing	Polyamide, UL94V-2
Operating Voltage	CATII	Contacts	Brass, nickel plated
Contact resistance	0.8mΩ	Temperature Range	-40°C to +80°C

219836

	Order Code	1+	10+	20+	50+
Press Fit					
Red	108-5526	5.92	5.43	5.19	4.32
Black	108-5527	4.80	4.40	4.20	3.51
Assorted	108-5528	6.20	5.66	5.32	4.48
Screw mounted					
Red	108-5523	6.91	6.31	6.04	5.15
Black	108-5524	6.91	6.31	6.04	5.15
Assorted	108-5525	7.20	6.53	6.21	5.31



4mm Shrouded Connectors - continued

Shrouded Sockets 32A

MC



Tab = 6.35 x 0.8, L = 33, Dia = 14.5 max Stud = M4 x 15, L = 39, Dia = 14.5 max
Panel thickness = 12 max., Panel cut-out = 12 (M12 thread)

Fully insulated safety sockets for use with shrouded plugs. Available in tab or stud termination. Stud termination can either be by the stud or via the solder bucket in the end of the stud. Manufactured to VDE 0100/0110, IEC1010-1 and BG approved.

Current Rating 1000V Contacts Brass, Gold, plated
Operating Voltage CATII Termination Screw or Solder
Temperature Range -40°C to +80°C

Mfrs. List No: Tab = 23.3060-x Stud = 23.3020-x
where x = 22-red, 23-blue, 29-white, 21-black, 24-yellow, 25-green

209736

5 Per Pack		Price Per Pack			
Colour	Order Code	1+	10+	20+	50+
Tab Termination					
Red	108-5459	9.35	8.48	7.88	6.59
Black	108-5460	9.35	8.48	7.88	6.59
Green	108-5478	9.35	8.48	7.88	6.59
Blue	108-5479	9.35	8.48	7.88	6.59
Yellow	108-5480	9.35	8.48	7.88	6.59
White	108-5481	9.35	8.48	7.88	6.59
Stud Termination					
Red	108-5482	10.63	9.58	9.37	8.51
Black	108-5483	10.63	9.58	9.37	8.51
Green	108-5484	10.04	9.04	8.85	8.06
Blue	108-5485	10.63	9.58	9.37	8.51
Yellow	108-5486	10.63	9.58	9.37	8.51
White	108-5488	10.63	9.58	9.37	8.51

Socket Safety Cap

MC



- Covers unused panel mounted sockets

Material: LDPE

227397

Order Multiple=5		Price Each			
Colour	Mfrs. List No.	Order Code	5+	100+	200+
Clear	23.5140-33	108-5500	0.51	0.50	0.48
Black	20155	108-5501	0.45	0.41	0.40

Assembly Tooling

MC



Two tube spanner tools with large easy grip handles for assembling Multi-Contact screw mount sockets to the panel. Also a turned metal tool for pressing push-fit sockets into the panel in association with a press or drilling machine.

Mfrs. List No: 25.0020+25.0022 = 225-071 25.0033 = 462-949

209796

Socket Type	Order Code	Price Each
Screw mount	225-071	20.88
Push-fit	462-949	3.05

Straight Safety Connector, 4mm



LAS S G Series



- Screw connection for leads from 0.5 mm² to 1.5 mm²
- 4mm plug with caged spring
- Simple "click-system" assembly

Rated Voltage 1000V
Rated Current 24A
Safety Standard IEC 61010
Temperature Range -15°C to +70°C

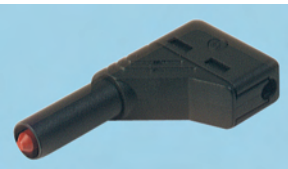
373937

		Price Each			
Colour	Order Code	1+	10+	25+	50+
Black	828-2200	1.30	1.16	1.07	0.99
Red	828-2218	1.30	1.16	1.07	0.99
Green	828-2226	1.46	1.31	1.20	1.10
Blue	828-2234	1.46	1.31	1.20	1.10
Yellow	828-2242	1.46	1.31	1.20	1.10

Angled Safety Connector, 4mm



LAS S W Series



- Screw connection for leads from 0.5 mm² to 1.5 mm²
- 4mm plug with caged spring
- Simple "click-system" assembly

Rated Voltage 1000V
Rated Current 24A
Safety Standard IEC 61010 1000V CATIII
Temperature Range -15°C to +70°C

373944

		Price Each			
Colour	Order Code	1+	10+	25+	50+
Black	828-2250	1.69	1.52	1.38	1.27
Red	828-2269	1.46	1.33	1.21	1.10
Blue	828-2277	1.69	1.52	1.38	1.27
Green	828-2285	1.69	1.52	1.38	1.27
Yellow	828-2293	1.69	1.52	1.38	1.27

Stacking Safety Connector, 4mm



LAS S WS Series



- Stackable connection system
- Screw connection for leads from 0.5 mm² to 1.5 mm²
- 4mm plug with caged spring
- Simple "click-system" assembly

Rated Voltage 1000V AC/DC
Rated Current 24A
Safety Standard IEC 61010 1000V Cat II
Temperature Range -15°C to +70°C

373946

		Price Each			
Colour	Order Code	1+	10+	25+	50+
Black	828-1947	1.22	1.15	1.04	0.95
Red	828-1955	1.22	1.15	1.04	0.95
Blue	828-1963	1.22	1.15	1.04	0.95
Yellow	828-1971	1.22	1.15	1.04	0.95
Green	828-1980	1.18	1.12	1.01	0.92

Safety Couplings, 4mm



KUN S Series



- 4mm safety coupling with screw connection
- for leads from 0.5 mm² to 1.5 mm²
- Maximum outer diameter of lead 4.2 mm
- 1000V System, IEC 61010, CAT III
- Simple assembly by 'Click System' without the need for a specialised tool

Rated voltage: 1000V AC/DC
Rated current: 24A
Standard / Measurement category: IEC61010, CAT III
Contact material: Nickel plated brass
Housing material: PVC
Flammability: UL94V-2
Operating temperature: -15°C to +70°C

415708

		Price Each			
Colour	Order Code	1+	10+	25+	50+
Black	101-1437	1.68	1.48	1.35	1.23
Red	101-1438	1.68	1.48	1.35	1.23
Blue	101-1439	1.63	1.44	1.31	1.19
Yellow	101-1440	1.68	1.48	1.35	1.23
Green	101-1441	1.63	1.44	1.31	1.19

Shrouded Sockets 24/32A



- Safety press-fit socket 4mm
- SEP2610 Faston 4.8 x 0.8mm
- SEP2620 Faston 6.3 x 0.8mm
- Manufactured to DIN46244
- For installation in equipment chassis with a wall thickness from 1mm to 10mm
- IEC1010 compliant

Rated Voltage 1000V DC
Current Rating 32A (SEP2610)32A (SEP2620)
Contact resistance 5mΩ
Temperature Range -40°C to +80°C
Mfrs. List No: 972361 (SEP2610), 972362 (SEP2620) + colour code: 100(black), 101(red)

210052

5 Per Pack		Price Per Pack				
Colour	Order Code	1+	10+	25+	50+	100+
SEP2610						
Red	401-7547	3.84	2.55	2.41	2.27	2.11
Black	401-7559	3.84	2.55	2.41	2.27	2.11
SEP2620						
Red	401-7602	6.23	4.12	3.91	3.67	3.41
Black	401-7614	6.06	4.01	3.81	3.56	3.32

Shrouded Sockets 32A



- Safety built in socket 4mm
- Faston 6.3 x 0.8mm terminal
- Manufactured to **DIN46244**
- Contact material brass gold-plated
- For installation in equipment chassis with a wall thickness up to 6mm
- **IEC 1010** compliant

Rated Voltage 1000V DC Contact resistance 5mΩ
Current Rating 32A Temperature Range -40°C to +80°C
Mfrs. List No: 972356-100 (black), 972356-101 (red), 972356-102 (blue), 972356-103 (yellow)

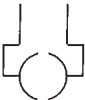
210050

		Price Per Pack				
Colour	Order Code	1+	10+	25+	50+	100+
Red	859-138	7.58	5.02	4.74	4.48	4.13
Black	859-140	7.58	5.02	4.74	4.48	4.13
Blue	400-2660	7.58	5.02	4.74	4.48	4.13

Shrouded N/O Contact Sockets 20A



6.35mm fast-on terminals



Electrical connection (N/O)

Max Dia = 14.5, L = 37 W = 14.5, L = 37

Panel cut-out = 12 (M12 thread), Panel thickness = 19 max.

A range of fully shrouded panel mounting sockets which mate with the stackable plugs above. They feature twin 6.35mm fast-on terminals which form half cradle contacts within the connector body. The half cradle contacts are connected to each other when a plug is inserted and thereby offer N/C or N/O capabilities.

Contact Rating 20A Housing Polyamide 66, UL94-HB
Note: for full 32A capability link terminals together Temperature Range -40°C to +85°C
Operating Voltage 1000V CATII Contacts Brass, Nickel plated
Mfrs. List No: Round = XEB1/R + colour Termination 6.35mm fast-on
Square = XEB1/Q + colour

209735

Order Multiple=5		Price Each				
	Order Code	5+	50+	100+	250+	500+
Round Flange						
Red	108-5450	1.69	1.66	1.61	1.55	1.43
Black	108-5455	1.69	1.66	1.61	1.55	1.43
Green	108-5456	1.98	1.75	1.56	1.27	1.14
Blue	108-5457	2.03	1.80	1.60	1.30	1.17
Yellow	108-5458	1.98	1.75	1.56	1.27	1.14

6mm Connectors

6mm

For 10mm²/16mm²/25mm² Cable



- For high flex cable
- 6mm panel plug supplied with coloured ID rings
- Free sockets supplied with standard black sleeve
- Set of coloured sleeves available
- Panel plug has 4mm socket hole for testing with shrouded plugs
- Live parts of socket are touch-proof in unplugged condition to **IEC529, EN60529, DIN/VDE 0470 part 1**

Current Rating 80A Voltage Rating 600V
Mfrs. List No: 14.0034-21 + 14.5004-22, + -23, + -24, + -25 = 108-5494
15.0017-21 = 108-5496
15.0020-21 = 108-5497
15.0050-21 = 309-0991
15.0084-21 = 309-1016
15.5001-22, + -23, + -24, + -25 = 108-5498

210061

Pack Quantity=1		Price Each				
Colour	Order Code	1+	10+	25+	50+	100+
Panel Plug						
In-line Socket for 10mm ² cable	108-5494	12.67	11.66	11.14	10.17	9.46
In-line Socket for 16mm ² cable	108-5496	16.46	15.21	14.50	13.30	12.36
In-line Socket for 25mm ² cable	108-5497	15.13	13.96	13.31	12.22	11.36
R/A Socket for 16mm ² cable	309-0991	19.34	17.71	16.87	15.46	14.39
Set of coloured sleeves	309-1016	28.51	26.10	24.90	22.80	21.23
	108-5498	7.24	6.66	6.36	5.81	5.41

Medical Connectors

Touchproof Plugs and Sockets

Medical Grade



A range of touch proof cable mount plugs and panel mount sockets.

- 1.5mm and 2.0mm dia
- Suitable for steam sterilisation up to 134°C
- Touch protected when mated and unmated
- Approvals: **DIN42802-1 DIN42802-2**

Insulation Polyamid
Temperature range -40°C to +80°C
Plug Brass - Gold plated
Cable Range 0.25mm² - 0.5mm² Max Dia 2.7mm
Pack Type Contents
Black / Red 2 Each - Black, Red
Multi Colour 1 Each - Black, Red, Blue, Yellow, Green, White

238337

		Mfrs. List No.	Price per Pack			
Pack Type		Order Code	1+	10+	50+	100+
1.5mm Touch Proof Plugs						
Black / Red	65.3322-21 + 65.3322-22	108-5510	7.50	6.82	6.63	6.05
Multi Col-our	65.3322-21, + -22, + -23, + -24, + -25, + -29	108-5511	11.15	10.12	9.83	8.97
2.0mm Touch Proof Plugs						
Black / Red	65.3314-21 + 65.3314-22	108-5512	3.50	3.17	3.09	2.83
Multi Col-our	65.3314-21, + -22, + -23, + -24, + -25, + -29	108-5513	5.15	4.70	4.55	4.15
1.5mm Touch Proof Panel Sockets						
Black / Red	65.3300-21 + 65.3300-22	108-5514	4.46	4.06	3.94	3.60
Multi Col-our	65.3300-21, + -22, + -23, + -24, + -25, + -29	108-5515	6.92	6.26	6.07	5.56
2.0mm Touch Proof Panel Sockets						
Black / Red	65.3304-21 + 65.3304-22	108-5516	7.60	6.89	6.69	6.12
Multi Col-our	65.3304-21, + -22, + -23, + -24, + -25, + -29	108-5518	11.61	10.57	10.23	9.36

Potential Equalisation Connector System



A range of connectors, pre-assembled leads and cables designed to:

- Equalise potential between metal parts that can be touched simultaneously
- Reduce differences in potential which can occur during operation between medical electrical devices and conductive parts of other objects
- Approvals - **TUV, VDE**
- All connectors and leads within the range are compatible

239811

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



Medical Connectors - continued

Potential Equalisation Connector System

Panel Receptacle

MC



- Black panel receptacle with yellow / green coding ring
- Conforms to DIN standard
- Built in nickel plated Plug (POAG-S6/25)
- For panel mounting
- Mates with angled socket

238721

Mftrs. List No.	Order Code	Price Each			
		1+	10+	50+	100+
Panel Receptacle 14.0007	108-5503	6.05	5.71	5.49	4.73

Potential Equalisation Connector System

Angle Socket

MC



- Conforms to DIN42801
- Yellow TPE anti-kink sleeve
- Brass body - nickel plated
- Crimps to highly flexible cable 4mm² or 6mm²

238719

Mftrs. List No.	Order Code	Price Each			
		1+	10+	50+	100+
15.0010	108-5502	11.49	10.85	10.51	8.97

FOR MORE INFORMATION & CHOICE

Product Search

Medical Connectors



RoHS Compliant Items Only | Advanced Search

Potential Equalisation Connector System

Plugs

MC



- Available in four standard lengths
- Conforms to DIN 42801
- Thread size M6 (0.6m)
- Brass nickel plated
- For fixing to instruments, beds, wall rails etc
- Mates with angled socket

238720

Mftrs. List No.	Overall Length (mm)	Thread Length (mm)	5 per pack Order Code	Price Per Pack		
				1+	10+	50+
04.0056	30	13.5	108-5504	4.65	4.23	4.14
04.0057	35	18.5	108-5506	5.09	4.59	4.52
04.0058	40	23.5	108-5507	5.07	4.62	4.53

Potential Equalisation Connector System

Pre-assembled Leads and Cable

MC



A range of 1m connecting leads

- 4mm² or 6mm² highly flexible cable
- Fitted with KBT6DIN sockets
- Green / yellow PVC insulation
- Conform to DIN standard

238722

Mftrs. List No.	Cable Size	Order Code	Price Each		
			1+	10+	50+
Single Socket Lead POAG-K4FS/KBT6DIN/100	4mm ²	343-1009	18.40	17.69	16.80
Flexible Cable 60.7014-001-20 5M	4mm ²	108-5508	18.64	17.91	17.00
60.7014-001-20 25M	4mm ²	108-5509	52.04	44.23	40.88

Supercon Connectors

Supercon



- Simple and quick assembly
- Positive grip plug design
- Nylon plastic parts
- Distinctive colours available
- CSA Certified

These connectors are designed to provide safe, rapid and positive panel-board electrical connections. The connectors also have colour-matched nylon caps and bodies. All plastic parts are moulded through in the same colour to permit more rapid and accurate circuit identification on both the front and back of the panel.

488962

Description	Mftrs. Colour List No.	Order Code	1+	Price Each 10+	50+
25A					
Receptacle Socket	Black RS25GB	142-7745	14.67	13.74	13.74
Receptacle Socket	Yellow RS25GY	142-7746	13.38	12.55	12.55
Receptacle Socket	Red RS25GR	142-7747	14.60	13.70	13.70
Receptacle Socket	Blue RS25GBL	142-7748	10.88	10.20	10.20
Receptacle Socket	Green RS25GGN	142-7749	12.61	11.82	11.82
Receptacle Socket	White RS25GWT	142-7750	12.61	11.82	11.82
Receptacle Pin	Black RP25GB	142-7752	14.96	14.02	14.02
Receptacle Pin	Yellow RP25GY	142-7753	11.20	10.51	10.51
Receptacle Pin	Red RP25GR	142-7754	14.69	13.76	13.76
Receptacle Pin	Blue RP25GBL	142-7755	10.81	10.14	10.14
Receptacle Pin	Green RP25GGN	142-7756	12.16	11.39	11.39
Receptacle Pin	White RP25GWT	142-7757	13.31	12.48	12.48
Plug Socket	Black PS25GB	142-7765	14.58	13.67	13.67
Plug Socket	Yellow PS25GY	142-7766	11.90	11.16	11.16
Plug Socket	Red PS25GR	142-7767	14.69	13.76	13.76
Plug Socket	Blue PS25GBL	142-7769	15.10	14.16	14.16
Plug Socket	Green PS25GGN	142-7770	12.50	11.71	11.71
Plug Socket	White PS25GWT	142-7771	15.10	14.16	14.16
Plug Pin	Black PP25GB	142-7758	14.96	14.02	14.02
Plug Pin	Yellow PP25GY	142-7759	13.38	12.55	12.55
Plug Pin	Red PP25GR	142-7760	14.89	13.96	13.96
Plug Pin	Blue PP25GBL	142-7761	12.61	11.82	11.82
Plug Pin	Green PP25GGN	142-7762	13.18	12.35	12.35
Plug Pin	White PP25GWT	142-7764	13.31	12.48	12.48
50A					
Receptacle Socket	Black RS50GB	142-7713	15.76	14.77	14.77
Receptacle Socket	Red RS50GR	142-7715	17.66	16.55	16.55
Receptacle Socket	Blue RS50GBL	142-7716	15.85	14.86	14.86
Receptacle Socket	Green RS50GGN	142-7717	15.76	14.77	14.77
Receptacle Pin	Black RP50GB	142-7718	17.68	16.57	16.57
Receptacle Pin	Red RP50GR	142-7719	17.66	16.55	16.55
Receptacle Pin	Blue RP50GBL	142-7720	15.48	14.52	14.52
Receptacle Pin	Green RP50GGN	142-7721	15.48	14.52	14.52
Receptacle Pin	White RP50GWT	142-7722	17.46	16.38	16.38
Plug Socket	Black PS50GB	142-7729	17.98	16.86	16.86
Plug Socket	Red PS50GR	142-7730	17.46	16.38	16.38
Plug Socket	Blue PS50GBL	142-7731	16.44	15.41	15.41
Plug Socket	Green PS50GGN	142-7732	16.17	15.16	15.16
Plug Socket	White PS50GWT	142-7733	17.34	16.26	16.26
Plug Pin	Black PP50GB	142-7734	16.00	15.00	15.00
Plug Pin	Red PP50GR	142-7735	15.89	14.90	14.90
Plug Pin	Blue PP50GBL	142-7736	15.48	14.52	14.52
Plug Pin	Green PP50GGN	142-7737	15.74	14.75	14.75
Plug Pin	White PP50GWT	142-7739	15.44	14.47	14.47
100A					
Receptacle Socket	Black RS100GB	142-7723	21.42	20.08	20.08
Receptacle Socket	Red RS100GR	142-7724	23.89	22.39	22.39
Receptacle Pin	Black RP100GB	142-7727	20.73	19.43	19.43
Receptacle Pin	Red RP100GR	142-7728	23.45	21.99	21.99
Plug Socket	Black PS100GB	142-7741	23.76	22.28	22.28
Plug Socket	Red PS100GR	142-7742	23.66	22.19	22.19
Plug Pin	Black PP100GB	142-7743	23.45	21.99	21.99
Plug Pin	Red PP100GR	142-7744	24.08	22.56	22.56
250A					
Receptacle Socket	Black RS250GB	142-7772	40.13	37.61	37.61
Receptacle Socket	Red RS250GR	142-7773	39.79	37.31	37.31
Receptacle Socket	White RS250GWT	142-7774	29.74	27.89	27.89
Receptacle Pin	Black RP250GB	142-7782	39.28	36.82	36.82
Receptacle Pin	Red RP250GR	142-7783	38.20	35.82	35.82
Receptacle Pin	White RP250GWT	142-7784	32.32	30.30	30.30
Plug Socket	Black PS250GB	142-7779	38.90	36.46	36.46
Plug Socket	Red PS250GR	142-7780	38.98	36.54	36.54
Plug Socket	White PS250GWT	142-7781	32.23	30.22	30.22
Plug Pin	Black PP250GB	142-7776	34.53	32.37	32.37
Plug Pin	Red PP250GR	142-7777	40.25	37.75	37.75
Plug Pin	White PP250GWT	142-7778	34.05	31.93	31.93



Panel Mounting Terminals

45° Fork 20A

MC



Fork terminals for mating stud terminals up to 6mm diameter with standard or shrouded 4mm plugs.

Overall length = 43.2

Current Rating 20A Temperature Range -40°C to +80°C
Working Voltage 1000V CATII Housing Polyamide, UL94V-2
Contact Resistance 0.3mΩ Contacts Brass, Gold plated

Mftrs. List No: 23.0440-x where x = 1-red, 4-black

209793

2 Per Pack	Order Code	1+	10+	25+	50+
Red / Black	108-5533	9.34	8.44	8.03	6.87

Uninsulated Banana Jack

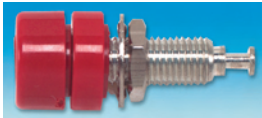
Pomona Electronics
Test & Measurement Accessories

- Panel mounted banana jack
- Fits standard banana plug
- Nickel plated brass
- Sold unassembled in pack of 10

311614

Mftrs. List No.	Order Code	1+	5+	10+
3267	443-5930	7.48	7.25	7.04

Panel Mount Banana Jack

Pomona Electronics
Test & Measurement Accessories

- Mounts in panels ranging in thickness from 1.6mm to 9.5mm
- Bright tin plating
- Rating 2500V dc, 15A
- Overall length 3.1cm

311496

Colour	Mftrs. List No.	Order Code	1+	5+	10+
Black	1581-0	443-5229	7.95	7.71	7.48
Red	1581-2	443-5230	7.95	7.71	7.48

4mm Insulated, 15A



Base dia = 13.0, Height closed = 37.0,
Height open = 44.0

All terminals are supplied with panel insulating sets, with location key-way, double plain washers and solder tag for connection.

Contacts	Brass, Nickel plated	Housing	Polypropylene
Current Rating	15A @ 250V ac		
Mftrs. List No:	TP/1 + colour		
Colour	Order Code	Colour	Order Code
Red	143-550	Green	143-552
Black	143-551	Blue	143-553
		Yellow	143-554
		White	143-555

209737

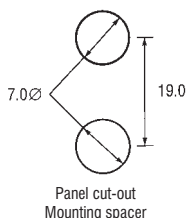
Order Code	1+	50+	100+	250+	500+
All Colours	1.08	0.98	0.94	0.88	0.77

4mm Insulated, 30A



H = 47 (open), 40 (closed), D = 15, Maximum panel thickness = 6

CLIFF



Panel cut-out
Mounting spacer

Designed for heavy duty applications the terminals feature extra large cross holes (4mm) for heavy conductors or even 4mm plugs. The castellated knob enables a handy coin to exert the required pressure for heavy current applications.

Current Rating 30A @ 250V ac

Mftrs. List No: Terminal = TP/6S + colour Spacer = TPP/1

Warning: Not suitable for use as speaker output/input on audio equipment in accordance with the UK/EC safety standard BS EN 60065.

209738

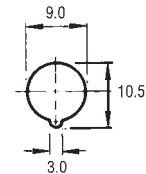
Colour	Order Code	1+	5+	50+	100+	250+	500+
Red	148-250	1.840	1.670	1.600	1.550	1.360	1.190
Black	148-251	1.840	1.670	1.600	1.550	1.360	1.190
Green	148-252	2.200	2.120	1.950	1.810	1.620	1.400
Brown	148-253	1.730	1.660	1.530	1.420	1.270	1.100
Blue	148-254	2.200	2.120	1.950	1.810	1.620	1.400
Yellow	148-255	2.200	2.130	1.950	1.810	1.630	1.400
Order Multiple=5		5+	50+	100+	250+	500+	
Black Spacer	148-256	0.250	0.210	0.195	0.170	0.153	

4mm Two Colour Insulated, 35A

MC



2mm
cross hole



Base dia = 12,
height closed =
34,
height open = 38

Available in three two-tone colours, Green/Yellow, Black/Red, Red/Black. There is a 2mm cross hole for clamp connection of a 2mm plug and 4mm hole in the end of the terminal to accommodate a standard 4mm plug. Maximum panel thickness 4mm.

Contact Rating 35A Housing Polyamide 6.6, UL94-HB
Operating Voltage 30V ac/60V dc Contacts Brass, Nickel plated
Temperature Range -40°C to +70°C Termination Solder Bucket / Screw

Mftrs. List No: PKUI35/+colour GY, BR, RB

209739

Colour	Order Code	1+	50+	100+	250+	500+
Body Insert						
Green Yellow	108-5436	5.49	4.77	4.14	3.38	3.03
Black Red	108-5437	4.33	3.76	3.26	2.66	2.38
Red Black	108-5439	4.33	3.76	3.26	2.66	2.38

SPK4 Quick Release Terminal

Ø 4mm

MC



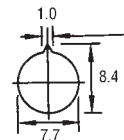
- Voltage rating 600v CATII to IEC/EN61010-03 2002
- Current rating up to 32A
- Accept stripped cable up to 2.5mm - Ø3.2mm entry
- Also accepts 4mm shrouded safety plug

423221

Mftrs. List No.	Colour	Order Code	1+	10+	25+	50+	100+
23.0410-22	Red	111-6217	6.42	5.66	4.99	4.11	3.74
23.0410-21	Black	111-6219	6.42	5.66	4.99	4.11	3.74

4mm 10A

CLIFF



Mounting hole dimensions

Plug: Cover length=34, Cover dia = 6.5, Overall length = 45 Socket: L = 28, Dia = 12
Maximum panel thickness = 13.5

A low cost range of 4mm plugs and sockets featuring slim style plugs and small diameter sockets enabling increased stacking density.

Mftrs. List No. Plugs P14+Colour, Sockets S14+Colour

Free Plugs

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	143-556	Green	143-558	Yellow	143-560
Black	143-557	Blue	143-559	White	143-561
Order Multiple=5					
Order Code	5+	50+	100+	250+	500+
All Colours	0.260	0.210	0.200	0.176	0.163

Panel Sockets

Panel Mounting Terminals - continued

4mm 10A - continued

Panel Sockets - continued

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	145-299	Green	145-301	Yellow	145-303
Black	145-300	Blue	145-302	White	145-304

209723

Order Multiple=5	Price Each
Order Code	5+ 100+ 250+ 500+
All Colours	0.39 0.34 0.32 0.28 0.27

2BA Non Insulated Binding Post



L = 38.1, Dia = 12.
Maximum panel thickness = 12.5,
Panel cut-out = 4.6 dia
Mfrs. List No: 351-0000-01

209740

Order Code	1+	50+	100+	250+	500+
110-1093	0.82	0.80	0.77	0.70	0.63

2mm Panel Plug



- Multi purpose gold plated 2mm plug
 - Used in conjunction with PCBs for instrumentation
 - M2 thread
- L = 23, Cut-out = M2

Contact Rating	25A	Contact	Copper Alloy, Gold plated			
Contact resistance	≤0.4mΩ	Temperature (max)	150°C			

209956

Order Multiple=5				Price Each		
Mfrs. List No.	Order Code	5+	50+	100+	250+	500+
22.1100	108-5562	1.21	1.00	0.91	0.77	0.71

4mm Panel plugs 16A



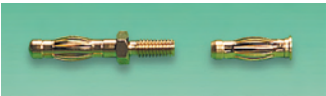
- Fully mating connectors as built in
- VST20 for solder pin connection up to 2mm², VST100 for screw connection up to 2.5mm²

Material	Brass, Nickel plated	Contact resistance	3mΩ
Rated Voltage	60V DC	Temperature range	-25°C to +100°C
Rated Current	16A		

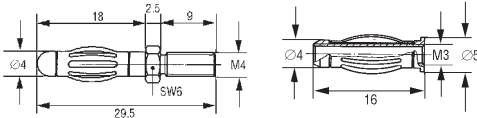
210053

5 Per Pack	Order Code	1+	10+	25+	50+	100+
VST20	497-850	4.55	3.92	3.53	3.06	2.80
VST100	810-721	2.42	2.01	1.58	1.52	1.42

4mm Panel Plug



L = 29.5, Cut-out = M4



- Multi purpose gold plated 4mm plug
- Used in conjunction with PCB's, for instrumentation and power units
- Available with M4 threaded stud or M3 internal thread

209827

Order Multiple=5	Mfrs. List No.	Order Code	5+ 100+ 250+ 500+
Threaded stud (M4)	22.1053	108-5560	1.75 1.48 1.38 1.16 1.04
Internal thread (M3)	22.1054	108-5561	1.50 1.28 1.19 1.00 0.89

40,000 PRICES REDUCED

4mm 'O-Z' Panel Plug 10A

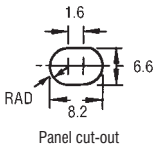


L = 34.2, 4BA fixing

209741

Mfrs. List No.	Order Code	1+	100+	250+	500+
L514	317-299	2.77	2.55	2.31	1.99

10A



Overall length = 46.0, Overall dia = 17.5
Stem length = 25.63, Stem thread = 2BA

DEF-5335 approved for services use and panel sealed. The terminal has a 4mm socket in the head and a large clamping gap (4mm) with unique **pyramid shaped teeth** for piercing the wire insulation, obviating the need for wire stripping. Available in black only. Type 317-342 panel fitting including fixing kit available.

209743

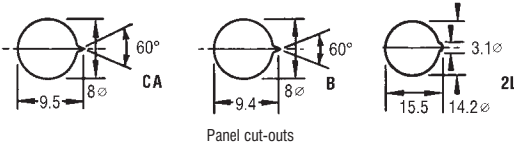
Mfrs. List No.	Order Code	1+	50+	200+	500+
L1361/1/BLACK	317-330	14.22	11.97	10.51	9.03
REF-02	317-342	2.67	2.24	1.96	1.70

15A



This terminal has an easy grip captive head containing a 4mm socket. The clamping gap is free from threads and has a 2.1mm cross hole for wire insertion. Available in red or black. Suitable panel fittings: 317-380, 317-391 and fixing kit 317-408.

Overall length = 47.7, Overall dia = 15.1
Stem length = 31.8, Stem thread = 8-32UNC



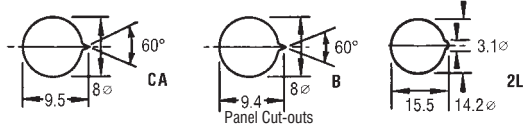
		Price Each				
	Mfrs. List No.	Order Code	1+	100+	250+	500+
Terminal (Red)	L1499/1/RED	317-354	2.46	2.29	2.06	1.84
Order Multiple=5			5+	50+	200+	500+
Fixing kit	KIT 2	317-408	0.55	0.49	0.43	0.36
Order Multiple=1			1+	50+	200+	500+
Panel fitting kit	REF-2L	317-391	2.03	1.72	1.46	1.33

15A



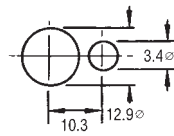
This terminal incorporates a non rotating centre disc in the head for lettering. The rotating collar is captive and the clamping gap is free from threads. Collar colour: black, Disc colour: red or black. Suitable panel fitting 317-378, 317-380, 317-391 and fixing kit 427-329.

Overall length = 48.0, Overall dia = 16.7
Stem length = 30.1, Stem thread = 2BA



			Price Each			
Order Multiple=1	Mfrs. List No.	Order Code	1+	50+	200+	500+
Terminal (Red)	L1001/1/RED	317-410	7.07	6.94	6.42	6.19
Terminal (Black)	L1001/1/BLACK	317-421	7.07	6.94	6.42	6.19
Panel fitting kit	REF-2L	317-391	2.03	1.72	1.46	1.33
Order Multiple=5			5+	50+	200+	500+
Fixing kit	KIT 3	427-329	0.55	0.49	0.43	0.36

30A



Panel cut-out

Overall length = 63, Overall dia = 25
Panel thickness = 1.6 to 23.8, Stem thread = OBA

An insulated terminal with non-rotating red or black centre disc suitable for lettering. The terminal has a black easy grip collar and is supplied with a panel fitting kit.

Contact Rating	30A	Housing	Phenolic resin
Breakdown Voltage	3000V dc min	Stud	Brass, Nickel plated
Temperature range	-25°C to +85°C	Termination	Screw

Mfrs. List No: L309/1/F/RED = 225-654 L309/1/F/BLACK = 225-666

209746

	Order Code	1+	25+	50+	100+
Red	225-654	7.47	6.95	6.28	5.59
Black	225-666	7.47	6.95	6.28	5.59

Crocodile Clips

Miniature Insulated



Clip L = 30 Overall L = 40

● General purpose miniature insulated crocodile clips

Material	Steel, Nickel plated	Insulation	PVC
Current rating	1A max	Connection type	Solder

230706

Order Multiple=5	Order Code	5+	25+	50+	100+	250+
Red	116-9601	0.210	0.194	0.158	0.143	0.128
Black	116-9604	0.260	0.250	0.240	0.230	0.220

Miniature 6A



Miniature crocodile clip for use with very small components. Crimp or solder termination. Maximum wire size 0.5mm².

Mfrs. List No: AGF1

Overall length = 17, Clamping limit = 1

Contact Rating	6A	Temperature range	-25°C to +100°C
Maximum Working Voltage	25V ac, 60V dc	Material	Brass, silver plated
Contact resistance	15mΩ	Termination	Crimp or Solder

209823

5 Per Pack	Order Code	1+	10+	25+	50+	100+
AGF30	117-6482	4.32	3.59	2.83	2.76	2.67

4mm 5A



- Nickel-plated stainless steel crocodile clip
- Maximum bolt diameter 10mm
- 4mm socket

Rated voltage 60V DC
Contact resistance 15mΩ
Temperature range -25°C to +100°C

210054

5 Per Pack	Order Code	1+	10+	25+	50+	100+
AGF30	117-6482	4.32	3.59	2.83	2.76	2.67

4mm 5A



Overall length = 51, Clamping limit = 15mm at point of jaws

Crocodile clip in nickel plated steel that will accept a 4mm plug. (A turned brass screw allows wires to be held securely). PVC insulating covers in red and black are available separately.

Mfrs. List No: 303-0000-01 = 110-1094
303-0000-01 = 110-1094
CROC CLIP INSULATING COVER, RED = 147-005
CROC CLIP INSULATING COVER, BLACK = 147-018

209747

Order Multiple=10	Order Code	10+	50+	100+	250+	500+
Crocodile clip	110-1094	0.290	0.270	0.240	0.194	0.180
Red insulating cover	147-005	0.210	0.195	0.184	0.172	0.141
Black insulating cover	147-018	0.210	0.195	0.184	0.172	0.141

Battery Clip 20A



Overall length = 75.5

Exceptionally good grip makes the clip ideally suited for use as a battery or terminal clip. Cables can be screw and crimp terminated onto the bright nickel plated steel clip. PVC insulating covers in red and black are available separately.

Clamping limit = 30mm at point of jaws

209751

		Price Each				
	Order Code	1+	10+	50+	100+	250+
Crocodile clip	110-1133 	0.56	0.52	0.51	0.50	0.41
Red insulating cover	152-327 	0.95	0.88	0.84	0.77	0.70
Black insulating cover	152-328 	0.95	0.88	0.84	0.77	0.70

Battery Clip



Current Rating 25A
Material Steel, Hot Tin dipped

Mfrs. List No: CR0028 = 317-494

Overall length = 58.7,
Clamping limit = 14.5 at point of jaws

227398

Order Code	1+	100+	250+	500+	1K+
317-494	2.24	2.03	1.70	1.41	1.24

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

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



