Bluetooth Products

- Bluetooth RS232 adaptors available in DTE (male 8pin D for device end) or DCE (female 8pin D for PC end)
- Class 2 device 2dBi. Up to 30m open field range
- Bluetooth 1.1 Qualified
- Max measured current 150mA
- Sleep mode 1mA max
- Power input via Pin 9 of RS232 port option
- Power requirement: 5V-13.6V on Pin9
- Mains power adaptor supplied
- Default configuration 115200 Baud, 8 data bits, 1 stop bit, No parity

Firewire 800Mbps Cables

- Braid shielding
- Translucent cover
- Fully rated to 800Mbps

Firewire 800Mbps Cables

- Braid shielding
- Translucent cover
- Fully rated to 800Mbps

KVMs

- Control two computers with one PS2 keyboard, monitor and PS2 mouse
- Select the required computer by ‘hot-keys’
- CS11645 has connections for 2 USB equipped computers
- CS11646 has connections for 1 USB and 1 PS2 equipped computer

SOHO Tower KVM Switches

- Support video resolutions up to 1920x1440
- LEDs for computer status
- PC99 colour coded connectors
- No power adaptor required
- No software required
- Dimensions (HxWxD): 125x50x100mm
- Contents: Switchbox, cables and user guide

Bluetooth Products

<table>
<thead>
<tr>
<th>Description</th>
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<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS232 Adapter DTE (B-119)</td>
<td>120-35060</td>
<td></td>
</tr>
<tr>
<td>RS232 Adapter DCE (B-430)</td>
<td>120-35070</td>
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</tr>
</tbody>
</table>

2 Port USB - USB/PS2 KVM Switches with Built-in Cables

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB KVM Switch</td>
<td>870-6620</td>
<td></td>
</tr>
<tr>
<td>USB+PS2 KVM Switch</td>
<td>870-6638</td>
<td></td>
</tr>
</tbody>
</table>

4 / 8 KVM Switches

- Access up to 2/4/8 PCs from one mouse, keyboard and standard VGA monitor by pressing the select buttons on the front panel
- PS2 keyboard connection only
- PS2 and serial mice supported (serial via adaptor)
- Maximum cable length for video is 30m

Firewire 800Mbps Cables

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- Translucent cover
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- No software required
- Dimensions (HxWxD): 125x50x100mm
- Contents: Switchbox, cables and user guide
### KVMs - continued

**4 / 8 KVM Switches - continued**

- 2 Port specification
  - Connections to PC: 4x PS2 2x 15 way Hi-D M
  - Connections to console: PS2 k/b & mouse 1x 15way Hi-D F
  - Dimensions 40 x 135 x 75mm
- 4 Port specification
  - Connections to PC: 8x PS2 4x 15 way Hi-D M
  - Connections to console: PS2 k/b & mouse 1x 15way Hi-D F
  - Dimensions 44 x 436 x 180mm
- 8 Port specification
  - Connections to PC: 16x PS2 8x 15 way Hi-D M
  - Connections to console: PS2 k/b & mouse 1x 15way Hi-D F
  - Dimensions 44 x 436 x 180mm

**Price Each**

<table>
<thead>
<tr>
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<td>8 Port KVM</td>
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**KVM Extension Cables**

KVM extension cables which have the 3 cables joined together ensuring that you are never ‘just one cable’ short.
- Consists of male to female VGA, PS2 mouse and PS2 keyboard connectors
- Available in 2m, 3m or 5m lengths

**Price Each**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
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**DVI / PS2 Male to Male Leads**

KVM Extension cable for most common DVI KVMs.
- Consists of male to male DVI, PS2 mouse and keyboard connectors
- Available in 2, 3, 4 and 5m lengths

**Price Each**

<table>
<thead>
<tr>
<th>Description</th>
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**Mouse/Keyboard/Monitor Extension Cables**

- Male to female extension cable sets which are moulded together to minimise those ‘lost’ cables
- 15 way HD monitor connector with 3 core coax and 4 pair twisted cable
- Colour coded PS2 mouse and keyboard connectors
- Available as 2m or 3m cable sets

**Price Each**

<table>
<thead>
<tr>
<th>Description</th>
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<tr>
<td>Mouse/keyboard/monitor Extension Cable</td>
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---

### Leads

**DB9 Serial Extension Cable**

- Extend the length of your serial mouse, VGA/EGA video monitor or other DB9 device
- Flexible PVC rubberized cable jacket
- Gold plated copper contacts
- Oversized thumbscrews
- Belkin lifetime warranty

**Price Each**

<table>
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<tr>
<th>Description</th>
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</table>

**SVG Premium cables**

- High quality multi coaxial monitor cable with 14 connected wires to guarantee
- DCC82-compatibility: Plug & play monitor
- Ferrite core for protection against interferences
- HD 15 connectors
- Color: Black
- Compatible with XGA, SVGA et SXGA standards

**Price Each**

<table>
<thead>
<tr>
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<th>Length</th>
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**DVI-I/VGA HD 15 F Adaptor**

- VGA to DVI-I/DVI-A female mini cable
- For connection of screen with VGA connector cable to one video card with DVI-I/DVI-A female connector
- Does not fit the DVI-D (24+1) video cards
- Cable length: 15cm

**Price Each**

<table>
<thead>
<tr>
<th>Description</th>
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**DVI to VGA Monitor Cables and Adaptors**

- Use for connecting a computers analogue DVI interface to a VGA/SVGA/XGA monitor
- Fully moulded cables
- DVI analogue male to 15 way HD male connectors

**Price Each**

<table>
<thead>
<tr>
<th>Description</th>
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</table>
DVI-D Cables

Various Lengths

- DVI-D dual link plug to plug leads
- OPC Cable with ferrite suppressors
- Molded plastic plugs with thumb screws
- Gold plated connectors
- 1, 1.8, 3, 5, 7 and 10m lengths available

DVI Extension Cables

- Available in both DVI I and DVI D versions in 2m, 5m and 10m versions
- Fully moulded cables, custom lengths not available
- DVI D digital version is supplied with DVI I female connector (with digital pins only connected)

DVI Monitor Splitters

- Fully moulded DVI splitters suitable for both DVI integrated and DVI digital applications
- DVI male to 2 x females enables connection of two monitors to a single DVI output

VGA CAT5 Extenders

- Works up to 150m away
- 4 position equaliser for optimum signal
- Supports resolutions up to 1024x768
- Use standard CAT5/6e/6 unshielded cable as the data link
- Available with or without mono audio facility
- Standard 15way Hi-D male input and 2x 15way Hi-D female outputs

PC Audio Extension Lead

- Extend your microphone and headphone connections
- PC99 colour coded for use with notebooks & PCs
- 2x 3.5mm stereo plugs to 2x 3.5mm stereo sockets
- 1.8m length
- Retail packed

Vidak

- HDMI cables - A type HQ version 1.3 Full HD
- HDMI 1.3 cables
- Ideal for connecting DVD HD or video games to a FULL HD screen
- Gold connector
- Shielded
- 2 ferrites
- AWG 28 cable
- Available in different lengths: 1.2m, 1.8m, 3m and 5m

NEW

- DVI-D (18+1) Male - HDMI Male A Type Leads
- Digital DVI-D to HDMI (High-Definition Multimedia Interface)
- Allows the connection of a video card with a PC via DVI connector and a digital device with HDMI connector (TV, projector, plasma or LCD screen etc.)
- Supports video transfer only
- HDMI A type 19-pin connector
- Available in 3m and 5m cable length

HDMI Male/Male A Type Leads

- HDMI (High-Definition Multimedia Interface) cables, allows a connection of 2 HDMI connector digital devices (satellite receiver for example)
- Supports bi-directional transfer Video + Audio
- HDMI A type 19-pin connectors
- Available in 1.8m, 3m, 5m, 10m lengths

Audio, Office and Electrical

INTELLIGENT ONLINE BUYING SYSTEM PROVIDING
Complete cost control, reduced administration time, visibility of your spend, flexibility and personalised to your company's needs.

farnell.com/ibuy
### Leads - continued

#### HDMI flat cables - A type 1.3 Full HD version

- HDMI 1.3 flat cables
- Ideal for connecting DVD HD or video games to a FULL HD screen
- Gold connector
- Shielded
- 2 ferrites
- AWG 28 cable
- Available in different lengths: 1.2m, 1.8m, 3m, and 5m

<table>
<thead>
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<th>Order Price Each</th>
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<tr>
<td>3m</td>
<td>128250</td>
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#### Cable Assemblies

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<th>Connector Gender</th>
<th>Connector Gender</th>
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<tbody>
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<td>DisplayPort</td>
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<td>HDMI</td>
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<td>Plug</td>
<td>HDMI Plug</td>
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<td>HDMI Plug</td>
<td>5m</td>
<td>128193</td>
<td>176-0256</td>
<td></td>
</tr>
</tbody>
</table>

#### Articulated cables

- Articulated connectors, the rotary head swivels of 90° on each side to form a right angle
- Available in different lengths: 1m, 1.8m, and 3m

<table>
<thead>
<tr>
<th>Length</th>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Order Price Each</th>
</tr>
</thead>
<tbody>
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<tr>
<td>3m</td>
<td>128192</td>
<td>176-0256</td>
<td></td>
</tr>
</tbody>
</table>

#### HDMI flat cables - A type 1.3 Full HD version

- HDMI 1.3 flat cables
- Ideal for connecting DVD HD or video games to a FULL HD screen
- Gold connector
- Shielded
- 2 ferrites
- AWG 28 cable
- Available in different lengths: 1.2m, 1.8m, 3m, and 5m

<table>
<thead>
<tr>
<th>Length</th>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Order Price Each</th>
</tr>
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<tbody>
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</tr>
<tr>
<td>5m</td>
<td>128260</td>
<td>168-3109</td>
<td></td>
</tr>
</tbody>
</table>

### Mini HDMI - HDMI Leads

- Connects the Mini HDMI socket on a compatible camera/recorder to the HDMI port on a LCD / Plasma TV or projector.

<table>
<thead>
<tr>
<th>Length</th>
<th>Mfrs. List No.</th>
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<tr>
<td>3m</td>
<td>128292</td>
<td>176-0262</td>
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</tr>
</tbody>
</table>

### Articulated HDMI A/A

- Meets 1.3 standards
- Entirely numerical to transmit the quantified flows not compressed up to 340 Mpixel/s (10.2 Gb/s)
- Gold plated connectors, ensure a perfect contact (0 oxidation).
- Support of audio stream of very high-quality - without loss of quality (lossless) - such as Dolby TrueHD and the DTS-HD Audio Master

<table>
<thead>
<tr>
<th>Length</th>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Order Price Each</th>
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<tbody>
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</tr>
<tr>
<td>3m</td>
<td>128192</td>
<td>176-0256</td>
<td></td>
</tr>
</tbody>
</table>

### Articulated HDMI male/female adaptor

- Ideal for connecting HDMI devices with restricted access
- HDMI 1.3 adapter
- 180° orientable

#### Adaptors

#### DVI to VGA Converter

- A DVI-I male to VGA female converter.
DVI to HDMI Adaptor
- DVI to HDMI adaptor
- DVI male to HDMI female connections
- Gold plated connectors

HDMI Female - Female Gender Changer
HDMI Female to Female connector for joining HDMI cables together.

DisplayPort to DVI Adaptor
- Adaptor allowing the connection of a PC with DisplayPort socket to a DVI enabled monitor
- DisplayPort male to DVI-I female

Display Port Adaptors
- A range of Displayport adaptors, converting your digital display port signal to HDMI, DVI, VGA.

A range of mini display port adaptors.

Network Products - Cat 5/5E/6 Leads
Line Cords - Plug to Spade
- A range of cords with a line plug at one end and spade terminals suitable for 3.5mm studs at the other
- Black coloured PVC outer sheathing
- Free end has individual conductors stripped back to a length of 60mm

Extension Lead
- An extension lead with male in line plugs at one end and in line coupler at the other
- Assembled using the relevant number of way cable with outer sheathing in ivory

Patch Leads, Coiled Cord
- A range of coiled plug to plug leads suitable for replacement handset cords on telephones (4 way) or general leads for eliminating any unwanted trailing cable.
Network Products - Cat 5/5E/6 Leads - continued

CAT 5E Cable Ecomomer

- Enables an additional signal to be transmitted down the unused pairs of Category 5E twisted-pair cable
- Allows expansion of an existing system without the need to disrupt the cable infrastructure
- Used in pairs, one at each end of the cabling
- Provides for instant network expansion
- Available as Data/Data, Voice/Voice and Data/Voice

Note: Although sold individually, the units must be used in pairs, with a device at either end of the cabling.

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
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</tbody>
</table>

CAT 5E RJ45 Low Profile Patch Cables

- RJ45 to RJ45 UTP, Category 5E patch cables
- Low-profile moulded strain reliefs
- Able to be plugged into wall sockets etc. without the strain relief fouling on the plate
- Selection of colours and lengths available

<table>
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Shielded Patch leads - CAT 5e FTP 100MHz

- Tested by LAN identification at 100MHz
- Shielded AWG 26/7
- Isolated contacts
- 100Ω Impedance
- Shielding with aluminium foil
- EIA/TIA 568 standards
- 15-year warranty

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Cat 5E Crossover Patch Lead

- UTP CAT5E crossover cables
- RJ45 connectors
- Easily identified as crossover cable due to black connector boots
- Available in 2, 3 and 5m lengths

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Cat 6 UTP Cross Wired Cables

- Crosswired Cat 6 manufactured using Cat 6 stranded UTP cable, the fully moulded assemblies feature high quality RJ45 connectors ensuring system quality and integrity.
3M CAT 5e UTP Patch Cords
Volition Series
- Available in 1m, 2m, 3m and 5m lengths
- Category 5e UTP
- Polyethylene conductor insulation to NFC 32060
- LSZH outer jacket

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3M CAT5e FTP Patch Cords
Volition Series
- Available in 2m, 3m and 5m lengths
- Category 5e FTP
- Polyethylene conductor insulation to NFC 32060
- LSZH outer jacket

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Cat5e LSZH PowerCat Patch Cords
- Cat5e with RJ45 to RJ45 plugs
- 4 pair 24 AWG stranded wire
- Preterminated with anti-snag slim strain relief slip on boots
- LSZH sheath
- Available in a variety of colours and lengths

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Patch Leads: Shielded Twisted Pair (STP)
- Approved Cat. SE STP manufactured cable
- Wired in accordance with 258A specifications
- Fitted with moulded high quality strain relief boots
- Fully tested
- 8 way shielded 50 micron gold, RJ45 connector at each end

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PowerCat 5E FTP Patch
- Patch Leads:
  - Uses Cat 5e stranded 4 pair FTP cable
  - RJ45 connectors with strain relief boots

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Network Products - Cat 5/5E/6 Leads - continued

Cat 5e LSZH PowerCat Patch Cords - continued

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Shielded Patch leads - CAT 6 FTP 250MHz

- Cable 6 ftp Copper 250 MHz
- Cable answering category CAT 6
- Tested to 250 MHz
- Cables in AWG 26/7
- Impedance 100 Ohms
- Connectors with gilded contacts
- Coppers conductor
- Backwards compatible with Cat 5/5e networks and systems
- Fault-free data/voice transmission within gigabit networks
- Manufactured using stranded foil/braid screened cable
- Fully moulded assemblies, tested for purpose
- Available in beige only, wired pin 1 to 1 straight through
- Ideal for use in crowded environments
- Fully tested UTP cables, wired straight through pin 1-1
- Low profile female to female coupler allows cables to be joined
- Cat 5 plug to socket extension cables
- Beige coloured

CAT 6 Extension Leads and Coupler

- Beige coloured
- Fully tested for purpose
- Manufactured using stranded foil/braid screened cable
- Available in beige only, wired pin 1 to 1 straight through
- Ideal for use in crowded environments
- Low profile female to female coupler allows cables to be joined
- Beige coloured

Flat Cat 6 UTP Patch Leads

- Ideal for use in crowded environments
- Manufactured using low profile high quality connectors and flat Cat SE approved cable
- Fully tested for purpose
- Beige coloured

Unbooted CAT 6 Patch Leads

- Unbooted cables using unique off-set design RJ45 plugs for low interference
- Manufactured using high quality 50 micron gold RJ45 plugs and UL approved Cat 6 stranded cable
- 24 AWG ETL verified EIA/TIA-568A Cat 6 UTP
- Fault-free data/voice transmission within gigabit networks
- Backwards compatible with Cat 5/5e networks and systems

Cat 6 STP Patch Cables

- Fully moulded assemblies, tested for purpose
- Brand new range of Cat 6 shielded cables
- Manufactured using stranded foil/braid screened cable
- Available in beige only, wired pin 1 to 1 straight through
- Custom lengths not available

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</tr>
<tr>
<td>3 m</td>
<td>123-3848</td>
</tr>
<tr>
<td>5 m</td>
<td>123-3849</td>
</tr>
<tr>
<td>10 m</td>
<td>123-3850</td>
</tr>
<tr>
<td>15 m</td>
<td>123-3851</td>
</tr>
</tbody>
</table>

Price Each

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5 m</td>
<td>123-3862</td>
</tr>
<tr>
<td>1 m</td>
<td>123-3863</td>
</tr>
<tr>
<td>2 m</td>
<td>123-3864</td>
</tr>
<tr>
<td>3 m</td>
<td>123-3865</td>
</tr>
<tr>
<td>5 m</td>
<td>123-3866</td>
</tr>
<tr>
<td>10 m</td>
<td>123-3867</td>
</tr>
<tr>
<td>15 m</td>
<td>123-3868</td>
</tr>
</tbody>
</table>

Price Each

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5 m</td>
<td>123-3843</td>
</tr>
<tr>
<td>1 m</td>
<td>123-3846</td>
</tr>
<tr>
<td>2 m</td>
<td>123-3847</td>
</tr>
<tr>
<td>3 m</td>
<td>123-3848</td>
</tr>
<tr>
<td>5 m</td>
<td>123-3849</td>
</tr>
<tr>
<td>10 m</td>
<td>123-3850</td>
</tr>
<tr>
<td>15 m</td>
<td>123-3851</td>
</tr>
</tbody>
</table>
### 3M CAT6 UTP Patch Cords

<table>
<thead>
<tr>
<th>Cable Length</th>
<th>Mfrs.</th>
<th>List No.</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1m</td>
<td>VOL-6UL-L1</td>
<td>205-9094</td>
<td></td>
</tr>
<tr>
<td>2m</td>
<td>VOL-6UL-L2</td>
<td>205-9095</td>
<td></td>
</tr>
<tr>
<td>3m</td>
<td>VOL-6UL-L3</td>
<td>205-9096</td>
<td></td>
</tr>
<tr>
<td>5m</td>
<td>VOL-6UL-L5</td>
<td>205-9097</td>
<td></td>
</tr>
</tbody>
</table>

- Available in 1m, 2m, 3m and 5m lengths
- Category 6 UTP
- Polyethylene conductor insulation to NFC 33060
- LSZH outer jacket

### 3M CAT6 SFTP Patch Cords

<table>
<thead>
<tr>
<th>Cable Length</th>
<th>Mfrs.</th>
<th>List No.</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1m</td>
<td>VOL-6SFL-L1</td>
<td>205-9098</td>
<td></td>
</tr>
<tr>
<td>2m</td>
<td>VOL-6SFL-L2</td>
<td>205-9099</td>
<td></td>
</tr>
<tr>
<td>3m</td>
<td>VOL-6SFL-L3</td>
<td>205-9100</td>
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</tr>
<tr>
<td>5m</td>
<td>VOL-6SFL-L5</td>
<td>205-9101</td>
<td></td>
</tr>
</tbody>
</table>

- Available in 1m, 2m, 3m and 5m lengths
- Category 6 SFTP
- Polyethylene conductor insulation to NFC 33060
- LSZH outer jacket

### 3M CAT6A SFTP Patch Cords

<table>
<thead>
<tr>
<th>Cable Length</th>
<th>Mfrs.</th>
<th>List No.</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1m</td>
<td>VOL-6ASFL-L1</td>
<td>205-9092</td>
<td></td>
</tr>
<tr>
<td>2m</td>
<td>VOL-6ASFL-L2</td>
<td>205-9093</td>
<td></td>
</tr>
<tr>
<td>3m</td>
<td>VOL-6ASFL-L3</td>
<td>205-9094</td>
<td></td>
</tr>
<tr>
<td>5m</td>
<td>VOL-6ASFL-L5</td>
<td>205-9095</td>
<td></td>
</tr>
</tbody>
</table>

- Available in 1m, 2m, 3m and 5m lengths
- Category 6A SFTP
- Polyethylene conductor insulation to NFC 33060
- LSZH outer jacket

### Cat6 LSZH PowerCat Patch Cords

<table>
<thead>
<tr>
<th>Description</th>
<th>Mfrs.</th>
<th>List No.</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey 5m</td>
<td>PCD-02001-0E</td>
<td>207-2229</td>
<td></td>
</tr>
<tr>
<td>2m</td>
<td>PCD-02003-0E</td>
<td>207-2231</td>
<td></td>
</tr>
<tr>
<td>3m</td>
<td>PCD-02005-0E</td>
<td>207-2232</td>
<td></td>
</tr>
<tr>
<td>5m</td>
<td>PCD-02009-0E</td>
<td>207-2233</td>
<td></td>
</tr>
</tbody>
</table>

- ETL SEMKO Category 6 compliant
- Pre-terminated with WE8W shielded plugs
- Strain relief boots
- RJ 45 connectors with strain relief boots and plug latch protection cap
- PVC jacket
- Uses shielded Cat 6 stranded 4 pair FTP cable PVC jacket
- RJ 45 connectors with strain relief boots and plug latch protection cap
- Strain relief boots
- Pre-terminated with WE8W shielded plugs
- ETL SEMKO Category 6 compliant

### Troubleshooting Tips

Chat online to one of our technical engineers at farnell.com

---

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Network Products - Patch Panels & Cable Management

24 Port Feedthrough Patch Panel

- For easy connection/disconnection of portable or external equipment
- Feedthrough (also known as double sided or back to back) sockets
- 24-port with printed numbers
- CAT5E and CAT6, shielded or unshielded couplers available

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT5E Unshielded</td>
<td>127-9669</td>
</tr>
<tr>
<td>CAT5E Shielded</td>
<td>127-9670</td>
</tr>
</tbody>
</table>

3M Keystone Patch Panel

Volition Series

Keystone patch panel complete with 32 RJ45 in 1U, provides more ports within the same space than standard, as well as offering a suitable solution for high density application and easy standard panel management.

- High performance patch panel complete with high density modular concept
- Direct, individual earthing connection upon jack insertion
- Increased EMC protection, minimising conducted interference
- Class EA/Cat 6A patch panels when loaded with RJ45 K6ASE jacks
- Increased dust protection during installation and within dirty environments

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cat 3, Voice</td>
<td>864-3954</td>
</tr>
<tr>
<td>50 Port Panel (1U)</td>
<td>864-3448</td>
</tr>
</tbody>
</table>

24-Port CAT 6 RJ45 Patch Panel

- Unscreened 24 Port RJ45 CAT 6 patch panel
- Easily removable rear cable management bar
- Colour coded labels (T568B and T568A) and label numbers for easy wiring at rear of panel
- Accommodates LSA+ & 110 type termination tools
- Rear IDC terminations present vertically and are compatible Krone tools
- Contents: Patch panel, cage nut kit, adhesive front labelling strips and numbered ports

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT5E Shielded</td>
<td>127-9670</td>
</tr>
<tr>
<td>24 Port Panel (1U)</td>
<td>862-460</td>
</tr>
<tr>
<td>48 Port High Density Panel (1U)</td>
<td>864-3954</td>
</tr>
</tbody>
</table>

Unshielded Patch & Voice Panels

3M RJ45 Punch Down Panels - Cat 5e & 6

Volition Series

Easy to use punch down panels with 24 ports in 1U, ideal for fast and reliable installation. Removable rear cable manager for strain relief and guidance of cables to a point of termination. 5e UTP and 6 UTP connections available.

- T568A or T568B wiring
- Universal application
- Terminates with LSA or 110 tools
- Colour coded labels (T568B and T568A) and label numbers for easy wiring at rear of panel
- Accommodates LSA+ & 110 type termination tools
- Rear IDC terminations present vertically and are compatible Krone tools
- Contents: Patch panel, cage nut kit, adhesive front labelling strips and numbered ports

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cat 3, Voice</td>
<td>194-7857</td>
</tr>
<tr>
<td>5 Port Ethernet switch</td>
<td>194-7856</td>
</tr>
</tbody>
</table>

10/100Mbps Ethernet Switch

Compact, high performance network switch with a simple plug and play connection set up.

- Supports auto-MDI/MDI-X
- Flow control for Full Duplex and Half Duplex modes
- MAC address auto-learning and auto-aging
- LED Power/status indicators

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cat 3, Voice</td>
<td>194-7856</td>
</tr>
<tr>
<td>5 Port Ethernet switch</td>
<td>194-7857</td>
</tr>
</tbody>
</table>

PowerCat SE

- Available in 24 and 48 port versions with a high density 48 port version available
- PCB Mounted KATT IDC
- EIA 568B wired
- RJ45 jacks

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 Port Panel (1U)</td>
<td>862-460</td>
</tr>
<tr>
<td>48 Port High Density Panel (1U)</td>
<td>864-3954</td>
</tr>
</tbody>
</table>

Cat 3, Voice

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 Port Panel (1U)</td>
<td>864-3448</td>
</tr>
</tbody>
</table>

24-Port Ethernet Switch

- Compact, high performance network switch with a simple plug and play connection set up.
- Supports auto-MDI/MDI-X
- Flow control for Full Duplex and Half Duplex modes
- MAC address auto-learning and auto-aging
- LED Power/status indicators

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cat 3, Voice</td>
<td>194-7857</td>
</tr>
<tr>
<td>5 Port Ethernet switch</td>
<td>194-7856</td>
</tr>
</tbody>
</table>

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RoHS Compliant ▲ Non-compliant
Network Products - Outlet Sockets

RJ45 Blockout Device

- Simple and secure method to control access to RJ45 ports
- Save time and money by preventing security breaches and associated downtime
- Device snaps into RJ45 jacks and is released only by the included removal tool
- Compatible with most RJ45 sockets
- Use on wall sockets and PC or notebook sockets

RJ45 Wall Outlets

- Ready-made Cat.5E approved faceplates
- Industry standard design, competitively priced
- Manufactured using quality UTP jacks & IDC style blocks with traditional punch down termination
- Ideal for most current network requirements

CAT 5E Euro

Category 5E and 6 modular jacks

- Connector modules are supplied separately
- Connectors are AMP modular jacks with 110 IDC connection blocks
- Wires are punched down using a suitable IDC tool - see 138-9229
- All faceplates are supplied unbranded, CAT 6 are 86x86mm with 1 or 2 modules, CAT 5E are 86x86mm (2 modules) or 148x86mm (4 modules)

BASIX Cat.5E Wall Faceplates

- Ready-made Cat.5E approved faceplates
- Industry standard design, competitively priced
- Manufactured using quality UTP jacks & IDC style blocks with traditional punch down termination
- Ideal for most current network requirements

Euromod Modular Outlets - Copper and Fibre

- Flexible outlet system
- Allows various voice and data modules to be snapped into standard size aperture
- Modules have integral IDC blocks
- Single and double face plate options accept two or four 25mm wide modules
- Modules can be changed as requirements change
- Face plates fit standard BS1363 boxes

Power Cat 5e Fixed Wall Plates

KATT IDC

- UK standard 86 x 86mm fascia
- Enhanced performance RJ45 RJLP connector
- Spring loaded shutters
- 568B wired
- UTP and FTP versions

Surface Sockets

Screw Termination

- Available in 6/4, 6/6 and 8/8 way options
- Units are suitable for round or flat cable entry
- Screw terminations accept 3-3.5mm spade terminals or bare wire
- Sockets are also provided with 2 22mm No6 wood screws for mounting the base unit
- Colour: Beige

CAT 6 Screw Termination

- Connection box for 4 twisted cable pairs for use in CAT 5/4/3 applications
- Unshielded
- Ideal for custom wiring or converting between different system wiring specifications

---

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 Plugs 1 Tool</td>
<td>124-2819</td>
<td>1+ 5+</td>
</tr>
<tr>
<td>Red</td>
<td>124-2820</td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td>124-2824</td>
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<table>
<thead>
<tr>
<th>Description</th>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT 5U TP Single Face Plate</td>
<td>8510E 151-7317</td>
<td>1+ 5+</td>
<td></td>
</tr>
<tr>
<td>CAT 5U TP Double Face Plate</td>
<td>8511E 151-7318</td>
<td>1+ 5+</td>
<td></td>
</tr>
<tr>
<td>CAT 5U TP Quad Face Plate</td>
<td>8512E 151-7319</td>
<td>1+ 5+</td>
<td></td>
</tr>
</tbody>
</table>

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Farnell P 3027 Date: 07-09-12 time:08:20
farnell.com element14.com

Audio, Office and Electrical

Office – Computer Hardware, Networking & Consumables
Impact Printer Mechanisms

Miniature impact printer mechanisms use solenoid driven needles and an ink ribbon to mark a series of dots onto plain paper rolls. Interfaces are available to control this process, by generating text and graphics, and allow connection to a microprocessor or PC port. Evaluation kits include a printer, interface board, 2 ink ribbons, 4 paper rolls and full connection data.

- Impact devices use globally available plain paper rolls and ink ribbon cartridges
- Multiple copy printing is possible with special paper
- The printout from impact devices is more resilient to mechanical marking and UV light than thermal print

16,24 and 40 Column Impact Type

**M150 Series**
- Low power impact printer range
- 5V DC operation
- Choice of 2 paper widths

**Specification:**
- M150
  - 101-3721
  - Paper roll (x 20)
- M160
  - 391-6030
  - 03-AP24XS
- M164
  - 391-6054
  - 03-AP25-24
- List No.
- Order Code
- 1+ 10+ 25+ 50+

**Consumables**
- Black Ink ribbon
  - 03-AP25-24
- Price Each

**Paper Width**
- 57mm

**Order Code**
- 101-3721
- 391-6030
- 391-6054

**Order Code**
- 101-3721
- 391-6030
- 391-6054

**Price Each**
- 222

**Battery Operated Portable**

- Battery operated hand held miniature printer
- Epson ‘PU’ series of impact printer mechanisms, 24 and 40 column printing at various print speeds of up to 2.5 lp
- Dot addressable graphics, double width, double height printing
- Integral re-chargeable batteries, mains adaptor/charger is available
- Communication via serial RS232C

**Specifications:**
- M150
  - 12.9 x 73.4 x 42.6
- M160
  - 12.9 x 91.0 x 42.6

**Accessory List:**
- DC Power Supply 5V to 8.5Vdc
- Battery charger, UK version
- Serial printer, 2.5 lps
- Battery charger, UK version
- Battery charger, European version

**Parameters set externally using ‘line feed’ and ‘on-line’ buttons, eliminating the need for DIP switch**

Ideal for a wide range of portable as well as static applications

**Specification:**
- M150
  - 101-3722

**Order Code**
- 101-3722

**Price Each**
- 222

**Panel Mounting Impact Type**

**Ap24 Series**
- Attractive design offering proven reliability
- Utilising Epson impact dot matrix printer mechanisms
- Value-for-money solution to a wide range of industrial data logging and automatic test equipment applications
- Industry standard panel cutout dimensions makes it easy to design in
- Choice of printing formats and interface type
- Readily obtainable, low cost consumables (standard tall roll paper and popular ink ribbon cassette)
- Front access makes paper and ink ribbon changing easy

**Specification:**
- W = 113.5 H = 56 D = 96
- Panel cut out = 109 x 62 Panel thickness = 2 mm and 4.5 max

**Order Code**
- 00-AP24E
- 00-AP24S
- 00-AP24X340
- 00-AP25-24

**Price Each**
- 00-AP24E
- 00-AP24S
- 00-AP24X340
- 00-AP25-24

**Modular Printing System**

**Ap800 Series**
- Impact or thermal printing
- Powered by NiCad battery, mains power supply or from a vehicle (12V system)
- Sits on a desktop, counter or mounts on a wall or vehicle dashboard
- Uses Epson impact dot matrix or fixed head thermal head print mechanism
- Advanced software control
- Text and graphic printing capability
- Easy maintenance
- Data buffer and print spooling to speed up processing

**Specification:**
- W = 82 D = 158 H = 104

**Order Code**
- 101-3721

**Price Each**
- 222
Lifetime warranty and lifetime support

Bus: USB 2.0 low & full speeds (virtual com port creation)

Tx/Rx modes: point to point

Flow control: RTS/CTS DSR/DTR Xon/Xoff

Stop bits 1 or 2

Data bits 7 or 8

ExpressCard/34 socket size

Baud rates up to 921,600

One or two RS232 serial ports with 9 pin D connector

Low cost competitive range utilising USB technology

One or two RS422/485 serial ports with 9 pin D connector

ExpressCard Serial Cards

RS422/485

Low cost competitive range utilising USB technology

One or two RS422/485 serial ports with 9 pin D connector

Baud rates up to 921,600

ExpressCard/34 socket size

Data bits 5, 6, 7 or 8

Parity odd, even, none, mark or space

Stop bits 1 or 2

Tr/Rx modes: point to point

Drivers and manuals supplied on CD Rom complete with sample programs, test & terminal software- with source code

Microsoft signed drivers for Windows XP/Vista 32 & 64 bit editions

Drivers for Windows Server 2003 2008: 32 & 64 bit

Life time warranty and lifetime support

Order Code

List No.

Price Each

ExpressCard 1 Port RS232 VX-001 151-79490

ExpressCard 2 Port RS232 VX-012 209-80090

Replacement Cable VX-045 167-5340

32 to 54mm ExpressCard Adapter VX-056 175-63190

Portable Stand Alone Thermal Printer

- Low cost high specification stand alone thermal printer
- Eliminates the need for maintenance and ribbons
- Suits wide range of static and portable applications
- Max printing speed 52.5 characters per second on 112mm paper
- Both RS232 serial and centronics parallel interface built in as standard
- Low noise non impact printing
- Optional rechargeable Ni-MH battery pack offering 3000 lines of character printing
- Built in 28K Byte buffer memory reducing printer time
- Optional full portability and graphic printing feature
- Compact low weight. Dimensions 170 x 160 x 66.5mm

Description

Order Code

Thermal Roll

342-1272

Price Each

ExpressCard Serial Cards

RS232

- Low cost competitive range utilising USB technology
- One or two RS232 serial ports with 9 pin D connector
- FIFO: 128 byte Tx & 256 byte Rx with user definable trigger level (2 port) 384 byte Rx
- Baud rates up to 921,600
- ExpressCard/34 socket size
- Data bits 7 or 8
- Parity odd, even, none, mark or space
- Stop bits 1 or 2
- Flow control: RTS/CTS DSR/DTR Xon/Xoff
- Tr/Rx modes: point to point
- Bus: USB 2.0 low & full speeds (virtual com port creation)
- Drivers and manuals supplied on CD Rom complete with sample programs, test & terminal software- with source code
- Microsoft signed drivers for Windows XP/Vista 32 & 64 bit editions
- Drivers for Windows Server 2003, Server 2008: 32 & 64 bit
- Lifetime warranty and lifetime support

NB - A 34mm to 54mm adaptor is now available for laptops with a wider 54mm ExpressCard slot

- Drivers and manuals supplied on CD Rom complete with sample programs, test & terminal software- with source code
- Microsoft signed drivers for Windows XP/Vista 32 & 64 bit editions
- Drivers for Windows Server 2003, Server 2008: 32 & 64 bit
- Lifetime warranty and lifetime support

Order Code

List No.

Price Each

XG-157

189-1132

Serial ExpressCard

LPT

One port LPT with 25 pin parallel port D-sub female connector

FIFO: 256 byte Tx & 256 byte Rx

Baud rates up to 921,600

ExpressCard/34 socket size

Data bits 5, 6, 7 or 8

Parity odd, even, none, mark or space

Stop bits 1 or 2

Tr/Rx modes: point to point

Drivers and manuals supplied on CD Rom complete with sample programs, test & terminal software- with source code

Microsoft signed drivers for Windows XP/Vista 32 & 64 bit editions

Drivers for Windows Server 2003, Server 2008: 32 & 64 bit

Lifetime warranty and lifetime support

Order Code

List No.

Price Each

XC-157

189-1132
### Universal PCI LPT Cards
- Microsoft signed drivers for Windows 2000, 32 & 64 bit
- Universal PCI – operates in both 5V and the newer 3.3V standard
- Up to 115200 baud
- Drivers and manuals supplied on CD Rom complete with sample programs, test & terminal software – with source code
- Lifetime warranty and lifetime support
- Windows 95/98/ME/NT and Linux

### Universal Single/Dual Port RS232 Cards
- Series of 1 or 2 port, PCI. Serial cards
- The single port card is also available in a low profile version
- Full PCI bus – auto configuration of interrupts and addresses
- Brainboxes B16PC958 UART with 128 byte FIFO
- Comprehensive manuals supplied on CD-ROM
- Universal PCI – works with both 5V and 3.3V standards
- PCI 3.0 compliant
- Windows 95/98/ME/NT and Linux
- Lifetime warranty

### Universal PCI Low Profile 1+1xPort RS232 / 1+1xRS232 + LPT
- 2 cards with 2xRS232 with option for additional LPT parallel port
- Low profile
- Brainboxes B16PC1985 UART with 128 Byte FIFO
- Universal PCI. Operates in both 5V and the newer 3.3V PCI standard
- Up to 115200 baud
- Windows 95/98/ME/NT and Linux
- Designed for small form factor, space constrained PCs
- 3.0 PCI Compliant
- Lifetime warranty
- Contents: Card, adapter cable, CD with drivers, sample programs and manuals

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**TROUBLESHOOTING TIPS**

Chat online to one of our technical engineers at farnell.com

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Complete cost control, reduced administration time, visibility of your spend, flexibility and personalised to your company’s needs.

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Universal PCI 4 Port RS232 With CTS & RTS Lines

- Universal PCI providing RS232 with Opto Isolation on Tx, Rx, CTS & RTS lines
- 4 port RS232 and PCI 3.0 with DB9 male connector
- FIFO: 128 byte Tx & 128 byte Rx
- Baud rates up to 921,600
- Lifetime warranty and lifetime support
- Data bits 5, 6, 7 or 8
- Parity odd, even, none, mark or space
- Stop bits 1, 1.5 or 2
- Tx/Rx modes: point to point
- Drivers and manuals supplied on CD Rom complete with sample programs, test & terminal software- with source code
- Microsoft signed drivers for Windows XP/Vista 32 & 64 bit editions
- Drivers for Windows Server 2003, Server 2008: 32 & 64 bit

Universal PCI 4 Port RS232 Cards

- Brainboxes B16PCI958 UART with 64 byte FIFO (up to 115200 baud)
- Works with both 5V and 3.3V standards
- Full PCI bus - auto configuration of interrupts and addresses
- Windows 95/98/ME/NT and Linux
- Fully moulded cable with 4 x 9 or 4 x 25 way male D’ connectors

Universal PCI 4 Port Opto Isolated Tx Rx RS232

- Brainboxes B16PCI958 UART with 32 byte FIFO (up to 115200 baud)
- Works with 5V and the newer 3.3V standards
- Full PCI bus - auto configuration of interrupts and addresses
- Windows 95/98/ME/NT and Linux
- Fully moulded cable with 8x9 way male D’ connectors

Universal PCI 1/2 Port Velocity RS422/485

- Works with both 5V and 3.3V standards
- Brainboxes B16PCI958 UART, 128 byte FIFO
- PCI 3.0 compliant
- Lifetime warranty

- Single and dual port cards with 9 pin ‘D’ connectors
- Low profile version available for single port card
- Opto isolated version available for dual port card
- Microsoft signed drivers for Windows 2000, 32&64 bit XP/Vista/server 2003
- RS 422/485 port has on board termination resistors with fail safe protection
- R x Dz/T x Dz: multiples jumpers for RS485
- Auto gating, automatically detects start/stop of data transmission

Universal PCI 4 Port RS232 & RS422/485 Card

- PCI x1 RS232 and 1 x RS422/485 Card
- Half size card provides one RS232 and 1 RS422/485 serial port with 9 pin D connectors
- PCI 3.0 compliant
- Plug and play PCI interface
- Brainboxes B16PCI958 UART
- 128 byte FIFO buffer
- Autogating for efficient use in RS485 half duplex mode under multi-tasking operating systems
- Informative manuals and sample programs are supplied with full source code on CD

- Supports both 5V and the newer 3.3V standards
- Windows 95/98/ME/NT and Linux
- Lifetime warranty

- PCI Dual Port
- PCI Dual Port, Opto Isolated
- PCI Single Port
- PCI Single Port, Low Profile

- Microsoft signed drivers for Windows XP/Vista 32 & 64 bit editions
- Drivers for Windows Server 2003, Server 2008: 32 & 64 bit

- Half size card provides one RS232 and 1 RS422/485 serial port with 9 pin D connectors
- PCI 3.0 compliant
- Plug and play PCI interface
- Brainboxes B16PCI958 UART
- 128 byte FIFO buffer
- Autogating for efficient use in RS485 half duplex mode under multi-tasking operating systems
- Informative manuals and sample programs are supplied with full source code on CD

- Supports both 5V and the newer 3.3V standards
- Lifetime warranty

- Dual port cards with 9 pin ‘D’ connectors
- Low profile version available for single port card
- Opto isolated version available for dual port card
- Microsoft signed drivers for Windows 2000, 32&64 bit XP/Vista/server 2003
- RS 422/485 port has on board termination resistors with fail safe protection
- R x Dz/T x Dz: multiples jumpers for RS485
- Auto gating, automatically detects start/stop of data transmission
Universal PCI 4 Port Velocity Card RS422/485

- PCI 4 port velocity RS422/485 card
- This half size card provides four serial ports independently configurable as RS422 with and without handshaking, or RS485 full or half duplex, with opto isolation on all RS422/485 lines
- PCI 3.0 compliant
- Plug and play PCI interface
- Opto-isolated to ±1500V DC / 1000 V AC
- Auto-configuration of interrupts and addresses
- Brainboxes B16PC958 UART with a 64 byte FIFO
- Shared interrupt by default
- Autogating for efficient use in RS485 half duplex mode under multi-tasking operating systems
- Informative manuals and sample programs are supplied with full source code on CD
- Windows 95/98/ME/NT and Linux
- Works with both 5V and the newer 3.3V standards
- Lifetime warranty

<table>
<thead>
<tr>
<th>Description</th>
<th>List No.</th>
<th>Mftrs.</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCI 4 Port Velocity RS422/485</td>
<td>UC-346</td>
<td>120-3528</td>
<td>1+ 3+</td>
</tr>
</tbody>
</table>

Universal PCI 4 Port Opto Velocity Card RS422/485

- Half size card provides four serial ports independently configurable as RS422 with and without handshaking, or RS485 full or half duplex, with opto isolation on all RS422/485 lines
- PCI 3.0 compliant
- Plug and play PCI interface
- Opto-isolated to ±1500V DC / 1000 V AC
- Auto-configuration of interrupts and addresses
- Brainboxes B16PC958 UART with a 64 byte FIFO
- Shared interrupt by default
- Autogating for efficient use in RS485 half duplex mode under multi-tasking operating systems
- Informative manuals and sample programs are supplied with full source code on CD
- Windows 95/98/ME/NT and Linux
- Works with both 5V and the newer 3.3V standards
- Lifetime warranty

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<tr>
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<th>Mftrs.</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCI 4 Port Opto Velocity RS422/485</td>
<td>UC-366</td>
<td>120-3529</td>
<td>1+ 3+</td>
</tr>
</tbody>
</table>

RS422/485 Dual 15/18Mbps

- 2 RS422/485 serial ports running at up to 15 Mbaud or 18 Mbaud
- 128 byte FIFO on each port
- On-board zener diodes giving transient spike protection to inputs
- Ideal for multitasking applications
- On-board terminating resistors
- Full PCI bus with Plug and Play
- Full and Half Duplex Autogating
- Windows 95/98/ME/NT and Linux
- Lifetime warranty

<table>
<thead>
<tr>
<th>Description</th>
<th>List No.</th>
<th>Mftrs.</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 Mbaud RS422/485</td>
<td>CC-530</td>
<td>120-3554</td>
<td>1+ 3+</td>
</tr>
</tbody>
</table>

The first online technical portal for design engineers
Log on, research, refine and design
PCI Express 8xRS232

- 8 port RS232 serial card PCIe
- Fully moulded cable with standard 9 or 25 pin D connectors
- Boardboxes 16PC1958 Uart
- Installs in x1,x2, x4, x8 & x16 lane slots
- Sample Programs, Test & Terminal software
- Microsoft signed drivers for Windows 2003, 2008, XP, Vista, 32 & 64 bit, Windows 7
- Sample Programs, Test & Terminal software
- Lifetime Warranty

**Lifetime Warranty**

<table>
<thead>
<tr>
<th>Description</th>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 Port RS232, 089 connector</td>
<td>PX-279</td>
<td>127-41769</td>
<td></td>
</tr>
</tbody>
</table>

PCI Express LPT + RS232 Port

- 1 x LPT + 1 x RS232
- PCI Express x1, x2, x4, x8 & x16 lane slots socket size
- 256 Byte Tx and 256 Byte Rx FIFOs
- Up to 921,600 Baud
- DB9 connector (9 Pin Male)
- Drivers for all popular operating systems
- Microsoft signed drivers for Windows 2003, 2008, XP, Vista, 32 & 64 Bit, Windows 7
- Sample Programs, Test & Terminal software
- Lifetime Support
- Lifetime Warranty (registration required)

**Lifetime Warranty**

<table>
<thead>
<tr>
<th>Description</th>
<th>Mfrs. List No.</th>
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<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCI-E, LPT + RS232</td>
<td>PX-475</td>
<td>176-28679</td>
<td></td>
</tr>
</tbody>
</table>

PCI Express - 1 or 2 Ports RS422/485

- 1 x RS422/485 Port
- 2 x RS422/485 Port

**Description List No.**

1 Port PCMCIA Card (PM-143)
120-3547
2 Port PCMCIA Card (PM-132)
120-3546
1 Port PCMCIA Card (PM-036)
120-3532
2 Port PCMCIA Card (PM-010) 120-3533

**Serial Cards - PCMCIA**

<table>
<thead>
<tr>
<th>Description</th>
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<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Port PCMCIA Card</td>
<td>PM-143</td>
<td>120-3547</td>
<td></td>
</tr>
<tr>
<td>2 Port PCMCIA Card</td>
<td>PM-132</td>
<td>120-3546</td>
<td></td>
</tr>
<tr>
<td>1 Port PCMCIA Card</td>
<td>PM-036</td>
<td>120-3532</td>
<td></td>
</tr>
<tr>
<td>2 Port PCMCIA Card</td>
<td>PM-010</td>
<td>120-3533</td>
<td></td>
</tr>
</tbody>
</table>

**PCI Express - Opto Isolated RS422/485**

- Standard and low profile versions available
- 1 port RS422/485
- Opto Isolation +1500VDC / 1000VAC
- PCI Express x1, x2, x4, x8 & x16 lane slots socket size
- 128 Byte Tx and 128 Byte Rx FIFOs
- Up to 921,600 Baud
- DB9 connector (9 Pin Male)
- Microsoft signed drivers for Windows 2003, 2008, XP, Vista, 32 & 64 Bit, Windows 7
- Sample Programs, Test & Terminal software
- Lifetime Support
- Lifetime Warranty (registration required)

**Lifetime Warranty**

<table>
<thead>
<tr>
<th>Description</th>
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<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCI-E, Opto Isolated RS422/485, Lane Profile</td>
<td>PX-376</td>
<td>175-63139</td>
<td></td>
</tr>
<tr>
<td>PCI-E, Opto Isolated RS422/485</td>
<td>PX-387</td>
<td>175-63140</td>
<td></td>
</tr>
</tbody>
</table>

**PCI Express RS422/485**

- PCI-E 4 Port 422/485 Standard Height available with or without Opto Isolation
- Opto Isolated version provides +1500 volts DC / 1000 volts AC
- Supplied with 4x9 pin Cable Assembly
- 128 Byte FIFO
- Up to 961,600 Baud
- Data Bits: 5, 6, 7 & 8
- Parity: Odd, Even, None, Mark & Space
- Drivers, sample programs on CD-ROM
- Lifetime Warranty
- Drivers

**Description List No.**

4 Port RS422/485 120-3547
4 Port RS422/485 Opto 120-3546

**Serial Cards - RS232**

- One or two RS232 serial ports with 9 pin male ‘D’ connectors
- Ruggedised versions, PM-143 & PM-132, is achieved by locking the cable to the card in manufacture
- Fast performance with 128 byte FIFOs and 1MBit line drivers allowing baud rates up to 921,600 (up to 115,200 baud for Win CE)
- Shared interrupts for all ports
- Data bits: 5, 6, 7, 8
- Stop bits: 1 or 2
- Parity: Odd, even, none, mark or space
- Sample programs, test and terminal software supplied
- Microsoft signed drivers Windows 2000, 32 & 64 bit XP & Vista & Windows 7
- PCMCIA bus (Type II) - fully Plug and Play
- Drivers, software and manuals supplied on CD-ROM
- Lifetime warranty

**Serial Cards - RS422/485**

<table>
<thead>
<tr>
<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1 Port RS232 Card</td>
<td>PM-143</td>
<td>120-3547</td>
<td></td>
</tr>
<tr>
<td>2 Port RS232 Card</td>
<td>PM-132</td>
<td>120-3546</td>
<td></td>
</tr>
<tr>
<td>1 Port RS232 Card</td>
<td>PM-036</td>
<td>120-3532</td>
<td></td>
</tr>
<tr>
<td>2 Port RS232 Card</td>
<td>PM-010</td>
<td>120-3533</td>
<td></td>
</tr>
<tr>
<td>Replacement cable (for standard cards)</td>
<td></td>
<td>167-5940</td>
<td></td>
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</tbody>
</table>
RS-232 to RS-422 interface converter

The 485-ISO interface converter allows operation in compliance with RS-485 or RS-422 equipment and RS-232. When operating as HALF duplex (2 wire or multi-drop, switch is set to T-RTS/R-RTS position) or FULL duplex multi-drop (4 wire, switch is set to T-RTS R-ON position), the 485-ISO detect the control signal (RTS or CTS) from the host or external power supply. It has tri-state outputs for up to 32 devices and full duplex line drivers. The 485-ISO can be configured to control its data flow when RTS signal is applied from the RS-232 port. An I/O selection switch allows accommodating both DTE and DCE devices. It is a very convenient for the RS-232 long distance communication.

### Specifications

- **Max baud of 230,400**
- **10/100 base TX Ethernet port**
- **Max baud of 230,400 through the RS-485 line.**
- **Up to 230,400 Baud**
- **6 diagnostic LED’s**
- **1500V RMS isolation**
- **Tri-state outputs, up to 64 devices**
- **Wide operating temperature range**
- **Solderless screw terminals**
- **Powerful performance**
- **High bandwidth**
- **Industrial grade quality**

### Dimensions

- **Height**: 26, **Width**: 56, **Depth**: 173

### Power Supply

- **EUR power supply PW-600**
- **Server 2003, Vista & XP 32 & 64 bit, Windows7**
- **175-6309**
- **175-6311**
- **175-6316**
- **175-6312**

### Executive Summary

- **Complete optical isolation**
- **Industrial surge protection devices**
- **Built-in DCE/DCT switch**
- **Host or external power supply**
- **Built-in DCE/DCT switch**

### Price

<table>
<thead>
<tr>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>LDM405</td>
<td>076-635</td>
<td>175-635</td>
</tr>
</tbody>
</table>

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**Ruggedised & Standard PCMCIA RS422/485 Serial Cards - continued**

- **Programs, test and terminal software supplied**
- **Microsoft signed drivers Windows 2000, 32&64 bit XP, Vista & Windows 7**
- **PCMCIA bus (Type II) - fully Plug and Play**
- **Drivers, software and manuals supplied on CD-ROM**
- **Lifetime warranty**

### Table

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>ES-701</td>
<td>209-6363</td>
<td>528182</td>
</tr>
<tr>
<td>ES-702</td>
<td>209-6361</td>
<td>528182</td>
</tr>
<tr>
<td>ES-279</td>
<td>209-6364</td>
<td>528182</td>
</tr>
</tbody>
</table>

### Detailed Specifications

- **Max. Capacitance Imbalance**: 500pF
- **Max. Loop Resistance (20°C)**: 97.8Ω/km
- **Max. Conductor Resistance (20°C)**: 50Ω/ft
- **Typical Transmission Distance**: 2km (dependant on cable properties)
- **Baud Rate**: 75 to 1200 2400 4800 9600 19200

### Ruggedised Cards

- **Order Code**: 120-3540
- **List No.**: 120-3548

### Standard Cards

- **Order Code**: 120-3534
- **List No.**: 120-3536

---

**Ethernet Converters RS422/485 and RS232**

- **Ethernet to Serial device server providing access to either 4 or 8 RS422/485 serial ports or 4 or 8 RS232 ports.**
- **Max baud of 230,400 through the RS-485 line.**
- **Web configuration and RFC2217 compliant interface for non-Network users.**
- **Provides configuration to most asynchronous RS232 equipment without special crossover wiring configurations in cables.**
- **Full duplex line driver**
- **Operates up to 2 km over twisted pair cable**
- **Data only mode (two twisted pairs) and Data and handshake mode (four twisted pairs).**
- **DTE/DCE switch allows configuration to**
- **Industrial surge protection device**
- **Complete optical isolation**
- **Host or external power supply**
- **Built-in DCE/DCT switch**

### Price

<table>
<thead>
<tr>
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<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES-357</td>
<td>175-6369</td>
<td>175-6369</td>
</tr>
<tr>
<td>KN-34A</td>
<td>170-4316</td>
<td>170-4316</td>
</tr>
<tr>
<td>PW-600</td>
<td>209-6366</td>
<td>209-6366</td>
</tr>
<tr>
<td>ES-020</td>
<td>214-2846</td>
<td>214-2846</td>
</tr>
</tbody>
</table>

### Serial Comms - Converter/Line Drivers

**RS232 to RS422 Converter**

- **Connectable up to 32 units in network mode**
- **Units have tri-state outputs controlled by DTR**
- **Full duplex operation over two-wire pairs with ground return**
- **Hardware handshake available over two separate wire pairs**
- **Connections to host interface via a 25 way ‘D’ connector socket and to transmission**
- **Built-in DCE/DCT switch**
- **Host or external power**
- **Operating temperature 0°C to +70°C**
- **Used to interconnect RS232 to RS422 devices; or for RS422 networking or expanding RS232 communication.**

### Price

<table>
<thead>
<tr>
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<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES-346</td>
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<tr>
<td>ES-442</td>
<td>209-6362</td>
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<td>ES-279</td>
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</tr>
<tr>
<td>ES-293</td>
<td>209-6366</td>
<td>175-6366</td>
</tr>
</tbody>
</table>

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**RS232-422 Converter/Line Driver**

- **Full duplex line driver**
- **Operates up to 2 km over twisted pair cable**
- **Data only mode (two twisted pairs) and Data and handshake mode (four twisted pairs).**
- **DTE/DCE switch allows configuration to**
- **Industrial surge protection device**
- **Complete optical isolation**
- **Built-in DCE/DCT switch**
- **Host or external power**
- **Operating temperature 0°C to +70°C**
- **Used to interconnect RS232 to RS422 devices; or for RS422 networking or expanding RS232 communication.**

### Price

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<td>214-2846</td>
<td>214-2846</td>
</tr>
</tbody>
</table>

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**RS232-485 Converters**

- **Complete optical isolation**
- **Industrial surge protection device**
- **Four LED diagnostic indicators**
- **200mA 1500V RMS isolation**
- **Used to interconnect RS232 to RS422 devices; or for RS422 networking or expanding RS232 communication.**

### Price

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>LDM405</td>
<td>221603</td>
<td>221548</td>
</tr>
<tr>
<td>DCP485</td>
<td>221548</td>
<td>221548</td>
</tr>
</tbody>
</table>
Serial Comms - Fibre Optic Line Drivers

RS232 Fibre Optic Line Driver

- Full duplex to 19200 baud
- Utilises up to 8 kilometres of 50/125um glass fibre
- Supports software handshaking (Xon/Xoff)
- Standard 25 way 'D' connector and ST connectors
- DTE and DCE configuration
- Transmitter at 25°C
- Wavelength: 850nm
- Life to Half brightness: -37db (at 850nm)
- Peak Coupled Power: -16db (at 850nm)
- Strom: 70 mA at 9V D.C.

GO232 Modem

For Low Cost Plastic Fibre

- Full duplex data to 19200 baud.
- Uses economical twin plastic fibre.
- Installs in seconds.
- Operates with up to 100m lengths of twin core 1mm plastic fibre
- Simple installation fibres are cut to length and held in place within the GO232 by a locking screw
- Supplied with an external UK power supply

Adaptors

Multi Desk Hub

- Designed to reduce work space clutter
- Slots into cable holes on most workstation desks
- Features 3 additional USB 2.0 sockets, memory card reader and audio in/out connections
- Card reader supports SD/MMC/MS/MSPD cards
- Connection cables come attached

USB 2.0 to VGA Adaptor

- Compliant with USB 2.0 specification
- Supports resolution up to 1680 x 1050
- Mirror, primary and extend desktop display
- Compatible with windows 2000, XP, Vista and Win7

USB to RS-232 DB9 Serial Adaptor

- Provides USB connectivity to legacy or non-USB compliant devices via a DB9 male connector
- Data rates up to 460Kbps
- All modem control signals implemented
- Hot-swappable
- Powered by USB connector
- USB 1.1 compliant (USB 2.0 compatible)
- 1.2m cable length

Bluetooth RS232 Paired Devices

- Suitable for any device with serial port
- With option to power from pin 9
- Up to 30m range
- 9 pin male and female options
- Class 1.1 qualified Bluetooth device
- Integral antenna
- Lifetime warranty and lifetime support
- Baud rate up to 921,600
- Data bit 7 or 8
- Parity odd, even or none
- Stop bits 1 or 2

USB to Serial Adapters

- RS232 / RS422/485 Ports
- USB2.0 to Serial adaptors providing either 1 x RS232 or 1 x RS422/485 serial port
- 128 Byte Tx and 256 Byte Rx FIFO
- Up to 921,600 baud
- DB9 connector (9 Pin Male)
- Drivers for all popular operating systems. Microsoft signed drivers XP & Vista 32&64 bit, Windows 7
- Sample Programs, Test & Terminal software
- Drivers for all popular operating systems.
Adaptors - continued

USB to RS-232/422/485 DB9 Serial Adaptors

- Provides USB connectivity to legacy or non-USB compliant devices via DB9 male connectors
- Each port is individually configurable for RS-232, RS-422, or RS-485
- Data rates up to 921.6kbps
- Automatic RS-485 enable/disable
- Serial and USB activity LEDs
- Hot-swappable
- Powered by the USB connection

USB U601 Hub

USB to Serial providing RS422/485 serial port multiplexed 8 times for multi-bus applications. Up to 921,600 data transfer rates and the 128 byte deep transmit and 256 byte receive FIFOs, coupled with 1Mbit line drivers deliver uncompromising performance on your laptop/PC.

- 8 port RS422/485
- 128 byte Tx and 256 Byte Rx FIFOs
- Rugged metal enclosure (IP30 rated)
- Up to 920,600 baud

USB2 Serial 4xRS232 / 8xRS232

- 4 port RS232 or 8 port RS232 options
- 8 port version (US-279) supplied with power supply unit
- USB to Serial
- 128 Byte Tx and 384 Byte Rx FIFOs
- Up to 921,600 Baud
- 4xDB9 / 8xDB9 connector (9 Pin Male) Industrial high retension USB connector
- Drivers for all popular operating systems
- Microsoft signed drivers for Windows XP, Vista, 32 & 64 Bit, Windows 7
- Sample Programs, Test & Terminal software
- Lifetime Warranty (registration required)

USB To Serial Adaptor Lead

- For modern PDA, camera, serial printer
- Drivers for Windows 98/2000/XP
- Chipset Prolific Technology Inc
- Powered by USB host
- 30-cm cable included

USB 2.0 Active Repeaters

- Allows you to increase the distance between your computer and USB devices
- USB A plug to USB A socket
- USB bus powered
- Available in 10, 15, 20 and 25mtr lengths

USB 2.0 IDE Adaptor

- Allows connecting IDE 100/66/33 devices to a USB 2.0 slot
- Power switch
- Supports Win ME/2000/XP and Mac OS 9.3.3 or later
- 0.93m cable
- Contents: IDE/USB 2.0 Adapter, UK ac mains adapter, 2.5" HDD adaptor and user guide.

USB 2.0 to SATA Adaptor

- USB 2.0 to SATA adaptor (data & power)
- Fully compliant with SATA and SATA 2
- Supports 2.5" and 3.5" HDDs and 5.25" optical drives
- External power supply for 3.5" HDD and 5.25" optical drives
- High-speed USB 2.0
- Supports Win 2000/XP/Vista and Mac OS 9.2.2 or above
- 150mm cable
- Contents: Adaptor and power supply

USB Data Link Cable

- Plug in this adaptor cable to one USB port of your computer and you'll see the GDI Software suite on display: transfer, sharing, synchronization program. Then connect the other end to the other PC, you can begin now!
- Compatible with USB 2.0 480Mbps Plug & Play
- Fast transfer rate up to 16Mbps
- Compatible with Win 2k/XP/Vista/7
- Cable length : 1,80m

Parallel to USB Converter

This convertor will allow you to use most parallel/ECP/ECP1284 printers on a USB equipped computer. It should allow for faster printing because of the port speed differential (USB 12Mbps(parallel 150Kbps)).
- Bidirectional compatible
- USB 1.1 interface
- Plug and Play, no software required
- Supports Windows 98 or greater
- Length :1.8m
USB to 2 x PS2 PC99 converter

- USB adapter for 6-pin miniDin connector keyboard & mouse
- No drivers required, read as HID device
- Windows 98/ME/2000/XP and Mac OS 8.6 minimum compatible
- Powered by USB host

PS2 to USB Converter

- Allows both a mouse and keyboard to work at the same time
- USB bus powered - no external power supply required
- No software required
- Supports Win 98 or later
- Length is 250mm

Connect your PS2 mouse and keyboard to a USB port.

Note: When used in DOS the 'backslash' key is unavailable.

Full Speed 1.1 USB Repeater cable

Overcomes the maximum 5m length up to 25m
- 1.5 or 12Mbps operation
- A Male/Female type

USB RJ45 Extension

- Extend USB devices past typical 5 metre range
- Compliant with the USB 1.1 specification
- Embedded USB Transceivers in each unit to prevent signal loss
- No external power needed
- No drivers needed
- Cable length: 30cm

USB Adaptors

A range of USB adaptors to allow interconnection of most USB cables.
USB Cables - continued

A selection of USB cables including A and B type connectors, plugs and sockets.

<table>
<thead>
<tr>
<th>Cable Description</th>
<th>Order Code</th>
<th>1+</th>
<th>10+</th>
</tr>
</thead>
<tbody>
<tr>
<td>A plug to A plug 1.8m</td>
<td>149-4729</td>
<td></td>
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<tr>
<td>A plug to A plug 3.0m</td>
<td>149-4730</td>
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<tr>
<td>A plug to A plug 5.0m</td>
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<tr>
<td>A plug to B plug 1.8m</td>
<td>149-4732</td>
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<td>A plug to B plug 3.0m</td>
<td>149-4733</td>
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<td>A plug to B plug 5.0m</td>
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<td>A plug to A socket 1.8m</td>
<td>149-4735</td>
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<tr>
<td>A plug to A socket 3.0m</td>
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Coloured USB 2.0 Cables

Coloured USB 2.0 cables

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>1+</th>
<th>5+</th>
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<tbody>
<tr>
<td>A Male to B Male</td>
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</tr>
<tr>
<td>Clear 2m</td>
<td>149-4737</td>
<td></td>
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</tr>
<tr>
<td>Black 2m</td>
<td>870-6794</td>
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<tr>
<td>White 2m</td>
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<tr>
<td>Red 2m</td>
<td>149-4742</td>
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<tr>
<td>Blue Transparent 2m</td>
<td>149-4738</td>
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<td></td>
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<tr>
<td>A Male to A Male</td>
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<td>Clear 2m</td>
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<tr>
<td>Black 2m</td>
<td>149-4747</td>
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<tr>
<td>White 2m</td>
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Coloured USB 2.0 Cables

Coloured USB 2.0 cables with A to B connections.

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<th>Order Code</th>
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<tbody>
<tr>
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<td>Black, 2m</td>
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USB2.0 AM-AM Lead

Black, 1M

Black USB cable supporting USB2.0 with AM-AM connections.

<table>
<thead>
<tr>
<th>Mfrs. List No.</th>
<th>Length</th>
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<tbody>
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USB3.0 Cable Assemblies

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Type A-B
- Choice of Type A-B or A-A USB3.0 cable assemblies
- Maximum transfer rate up to 5.0 Gbit/s

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<thead>
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</table>

Type A-A
- Choice of Type A-B or A-A USB3.0 cable assemblies
- Maximum transfer rate up to 5.0 Gbit/s

<table>
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<tr>
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High Speed USB 3.0 Cables A to B and A to A Connections

Superspeed USB 3.0 cables give raw throughput of 480mbs. Cable contains two wires for power and ground, two wires for non-SuperSpeed data and four wires for SuperSpeed mode.
- 10x faster than standard USB 2.0
- Manufactured using UL20276 USB 3.0 Cable
- 28AWG x 1 Pair with drain/aluminum/mylar, 1x 28AWG Pair, 2 Cores 28AWG
- Backwards compatible, however, for USB 3.0 speed total USB 3.0 system required
- Available in 1, 2 and 3m lengths with A to B or A to A connection

<table>
<thead>
<tr>
<th>Mfrs. Part No</th>
<th>Connector Type</th>
<th>Cable Length</th>
<th>Order Code</th>
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<tbody>
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RoHS Compliant
Non-compliant