

Universal Serial Bus Connectors



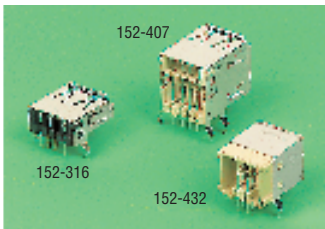
- A complete interconnection technology for I/O devices
- Accommodates the two differentially driven data wires that provide bi-directional simultaneous signals for full speed 12 Mbps, or for low speed 1.5 Mbps used in USB systems
- Hot pluggable, permits attaching or detaching of peripherals without power down or reboot

| | |
|------------------------------|--------------------------------------|
| Current rating | 1A/contact (Signal application only) |
| Voltage rating | 30V ac (rms) |
| Insulation resistance | 1000MΩ max |
| Dielectric withstand voltage | 750Vac (sea level) |
| Temperature range | -55° +85°C |

| | |
|------------------------|------------------------------|
| Speed | 12Mbps |
| Max no. of peripherals | 63 |
| Max. distance | 5 metres |
| Data Transfer | Asynchronous and Isochronous |
| Durability | 1500 cycles |

CS492

Receptacle



CS491

| No. of Ways | Mftrs. List No. | Order Code | 1+ | 100+ | 500+ | 1000+ |
|---|-----------------|----------------|----|------|------|-------|
| Right Angle Thru Hole - Series A | | | | | | |
| 4 Position | 787616-1 | 152-316 | | | | |
| 4 Position, stacked | 787617-1 | 152-407 | | | | |
| 4 Position, side stacked | 787779-1 | 152-419 | | | | |
| Right Angle Thru Hole - Series B | | | | | | |
| 4 Position | 787780-1 | 152-432 | | | | |

Cable Assemblies



CS493

| Cable Length (m) | Mftrs. List No. | Order Code | 1+ | 100+ | 500+ | 1000+ |
|-----------------------------------|-----------------|----------------|----|------|------|-------|
| Shielded - Series A to B | | | | | | |
| 1 | 621773-1 | 152-456 | | | | |
| 2 | 621774-2 | 152-468 | | | | |
| 4 | 621776-2 | 152-500 | | | | |
| 5 | 621776-3 | 152-511 | | | | |
| Shielded - Series A to F/E | | | | | | |
| 0.83 | 621745-1 | 152-547 | | | | |
| 1 | 621746-2 | 152-614 | | | | |
| 2 | 621747-1 | 152-626 | | | | |

Receptacles



- 4 and 5 pin receptacles available
 - Through-hole and SMT
 - With or without back shielding
 - A and B types
 - A type in single and double deck
 - UL approved
- | | | | |
|-----------------------|---------------------|-------------------|--------------------------------------|
| Insulation resistance | 1000MΩ min. initial | Housing | Phosphor-bronze tin-lead plated |
| Withstanding voltage | 750V ac (rms), 60Hz | Insulator | Moulded plastic (UL94V-0) |
| Current rating | 1A max. | Plating (contact) | 0.76µm (30uin) PaNi Contact |
| Contact resistance | 30mΩ max. initial | Plating (tails) | 2.54µm (100uin) tin-lead Solder tail |
| Contact capacitance | 2pF max. | | |
| Temperature range | 0 to +40°C | | |

CS490

| No. of Ways | Mftrs. List No. | Order Code | 1+ | 100+ | 500+ | 1000+ |
|--------------------------------|-----------------|--------------------|----|------|------|-------|
| Thru Mount - Style A | | | | | | |
| 4 position, single deck | 87520-0010B | 152-638 | | | | |
| 4 position double deck | 72309-0030B | 152-640 | | | | |
| Surface Mount - Style A | | | | | | |
| 4 position, single deck | 87583-0010 | SMD 152-687 | | | | |
| Thru Mount - Style B | | | | | | |
| 4 position, single deck | 61729-0010B | 152-754 | | | | |

Cable Assemblies



CS489

| Cable Length (m) | Order Code | 1+ | 100+ | 500+ | 1000+ |
|-----------------------------|----------------|----|------|------|-------|
| 2.0 Cable assembly 'A' to B | 152-766 | | | | |
| 2.0 Cable assembly 'A' to A | 152-778 | | | | |

Receptacle



- Board mount connectors and cable assemblies
- Provides a single shielded interconnection system for computer peripherals
- Rear shield on receptacles
- One piece shielded design for cost effective assembly and reliability
- Allows peripherals to be added or removed without computer reboot
- UL, CSA approved

Receptacle

| | | | |
|-----------------------|----------------------|------------------|---|
| Current rating | 1A | Housing | Copper alloy, tin over copper plating |
| Insulation resistance | ≥1 10 ⁹ Ω | Insulator | Glass filled Thermoplastic UL94V-0 in termination area |
| Dielectric strength | 1000Vrms | Contact Material | tin/lead over nickel plating in termination area |
| Temperature range | -55°C to +125°C | Jacket Material | PVC |
| Cable | | Shielding | Aluminium foil with tin copper braid |
| Impedance | 90+/- 15%Ω @ 1MHz | | |
| Capacitance | 65pF/m @ 1Mhz | | |
| Propagation delay | 6 n/s/m Max | | |
| Temperature range | -40°C to +75°C | | |

CS514

Receptacles



153-485 153-497

CS515

| Order Multiple=5 | No. of Ways | Mftrs. List No. | Order Code | 5+ | 50+ | 100+ | 250+ | 500+ |
|--|-------------|-----------------|----------------|----|-----|------|------|------|
| Right Angle Thru Mount – Type A | | | | | | | | |
| 4 Position | | USBS-ARPCB | 153-485 | | | | | |
| 4 Position stacked | | USBS-A2RPCB | 153-497 | | | | | |
| Right Angle Thru Mount – Type B | | | | | | | | |
| 4 Position | | USBS-BRPCB | 153-503 | | | | | |

Cable Assemblies



CS516

| Cable Length (m) | Mftrs. List No. | Order Code | 1+ | 10+ | 50+ | 100+ | 250+ |
|---------------------------------|-----------------|----------------|----|-----|-----|------|------|
| Shielded – Type A to B | | | | | | | |
| 1 | USB-AB1611-M010 | 153-539 | | | | | |
| 2 | USB-AB1411-M020 | 153-527 | | | | | |
| Shielded – Type A to F/E | | | | | | | |
| 2 | USB-A1411-M020 | 153-515 | | | | | |