

USB+Power Interconnect System

Product Description

USB+Power is the new interconnect system developed by FCI to meet the high power requirements of devices using the Universal Serial Bus. Its fully shielded power over signal design allows the use of the "A" style USB cable for standard applications requiring less than 1.5 amps. For more demanding applications, the USB+Power system can deliver an additional 3 amps to your device.

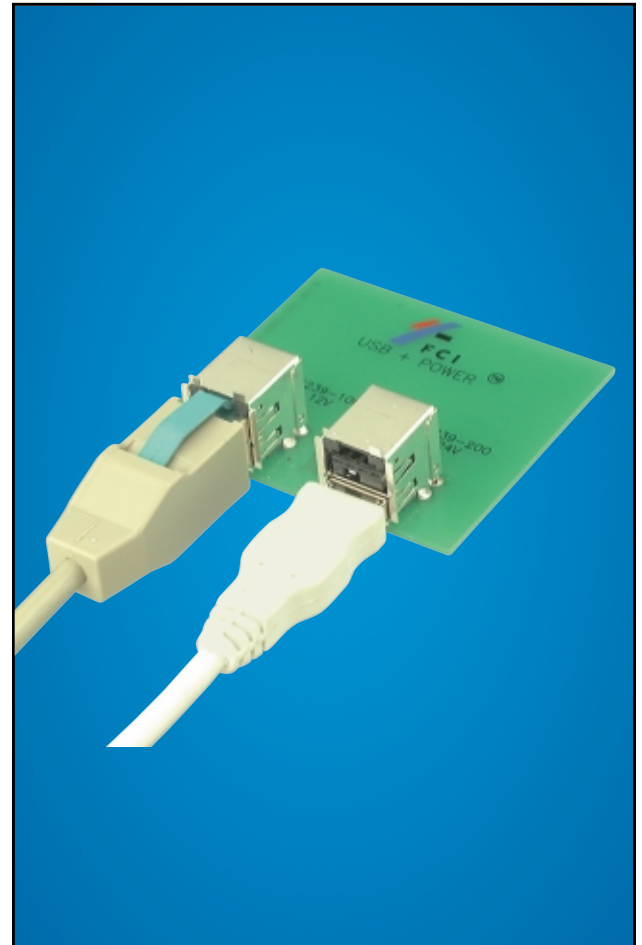
To ensure the system's integrity, USB+Power is available in two keyed versions for 12 volt and 24 volt applications. The plugs are also color coded to simplify its use.

Features & Benefits

- Power contacts are designed for 3 amps at 12 & 24 volts. Meets the requirements of today's high power devices.
- Power over signal design allows use of standard "A" USB cable or USB+Power cable for maximum system versatility.
- Keyed and color coded plugs for different voltages to protect the system.
- Positive latching mechanism ensures complete cable engagement and retention.
- Full shielding provides maximum EMI protection.

Target Markets

- Data
- Consumer
- Datacom/Telecom



Target Applications

- PC
- Point of sale
- Hubs
- Speakers
- High power devices

Materials

- Receptacles
 - Housinghigh temperature thermoplastic
UL94V-O rated
- Contactscopper alloy
- Shellcopper alloy
- Cables
 - Cable jacketPVC
 - Contactscopper alloy
 - Data conductors28 AWG twisted pair
 - Power conductorsnon-twisted pair
 - Shieldaluminized foil and 65% coverage tinned
copper braid

Mechanical Performance

- Meets USB standard
- Durability1,500 cycles

Part Numbers

| Base Part Number | USB Type | Description | |
|-------------------------|-----------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------|
| Receptacles | | | |
| 74239 | A Receptacle +Power | 4 pins USB, 4 additional power supply pins | 1.57 mm Board Thickness |
| Cable Assemblies | | | |
| 74911 | USB+Power 24V key to 1X8 position Latch-N-Lok | 24 V key 8 Conductor Cable | USB section pins 1 thru 4 and + Power section pins 5 thru 8 wired |
| 74912 | USB+Power 12V key to 1X4 position Latch-N-Lok | 12 V key 4 Conductor Cable | USB section pins 1 thru 4 wired |
| 74913 | USB+Power 12V key to 2X3 position Latch-N-Lok | 12 V key 6 Conductor Cable | USB section pins 1 thru 4 and + Power section pins 5 thru 6 wired |

- Kits shipped in bulk in tubes

Electrical Performance

- Operating Voltage
 - USB5Vdc
 - +Power12Vdc/24Vdc
- Withstanding voltage750 vac rms.
- Current rating
 - USB1 amp/contact
 - +Power3 amp/contact
- Low level contact resistance (LLCR)30mΩ max.
- Signal impedance90Ω +/- 15%

Specifications

- USB compliant
- FCI product specificationGES-12-130
- Agency approvalUL/CSA

Packaging

- Receptaclestubes
- Cablesone cable per bag

For options or additional product information, call your local FCI representative.



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