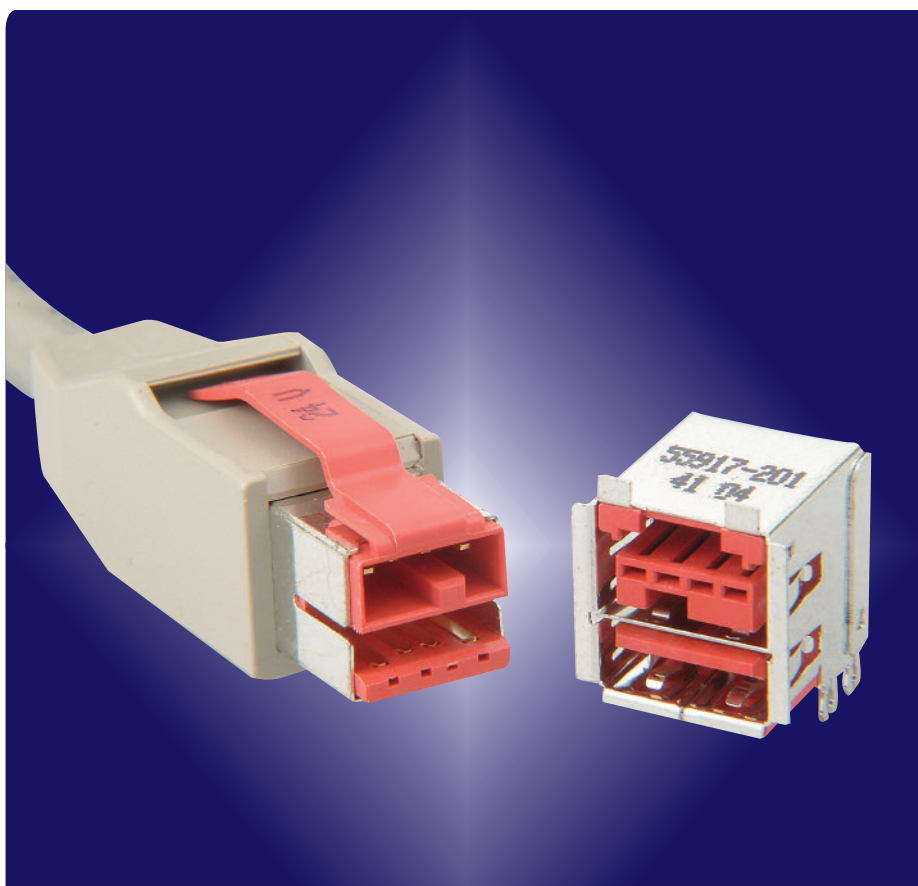# USB+POWER

DESCRIPTION

The USB+Power interconnect system was developed by FCI to address higher power requirements of devices using USB signaling. USB+Power adds 4 power contacts to the interface providing a total of 5 amps of additional current carrying capability compared to 1 amp for standard USB. For many devices, this eliminates the requirement for a separate power source reducing the number of cables required. For peripherals not requiring the additional current, the USB+Power receptacle will mate with a standard USB 'A' plug.

To insure proper mating, USB+Power is individually keyed and color coded for 5V, 12V, and 24V.

FEATURES & BENEFITS

- Provides up to 5 amps of current carrying capacity eliminating the need for an external power supply in most peripheral devices
- Receptacle mates with standard USB 'A' plug
- Keyed and color coded for different voltages
- Positive latching insures proper mating and retention
- Fully shielded providing USB 2.0 data performance
- Hot plugging capability

TARGET MARKETS / APPLICATIONS

- Data
- Consumer
- Datacom/Telecom
- PC
- Point of sale
- Hubs
- Speakers

MATERIALS

◤ Receptacles
  • Housing: high temperature thermoplastic UL94V-O rated
  • Contacts: Copper Alloy
  • Shell: Copper Alloy
◤ Cables
  • Cable jacket: PVC
  • Contacts: Copper Alloy
  • Data conductors: 28 AWG twisted pair
  • Power conductors: non-twisted pair
  • Shield: aluminized foil and 65% coverage tinned copper braid

ELECTRICAL PERFORMANCE

◤ Operating Voltage
  • USB: 5Vdc
  • +Power: 12Vdc/24Vdc
  • Withstanding voltage: 750 vac rms.
◤ Current rating
  • USB: 1 amp/contact
  • +Power: 3 amp/contact
  • Low level contact resistance (LLCR): 30mΩ max.
  • Signal impedance: 90Ω +/- 15%

MECHANICAL PERFORMANCE

◤ Meets USB standard
◤ Durability: 1,500 cycles

SPECIFICATIONS

◤ USB Compliant
◤ Product Specification: GES-12-130
◤ Agency Approval: UL/CSA

PACKAGING

◤ Receptacles: tubes
◤ Cables: one per bag

PACKAGING

Description	Base Part Number PCB Receptacle	Base Part Number Mating Plug Kit
Standard A Plus Power	55917	74233
Slimline A Plus Power	57489	57496
Slimline A Plus Power - mid board mount receptacle	10011029	57496
Slimline A Plus Power - under board mount receptacle	10063583	57496

FCI - Americas : 1 (800) 237 2374 - Europe : 33 1 39 49 21 83 - Asia/Pacific : 65 6549 6666

www.fciconnect.com