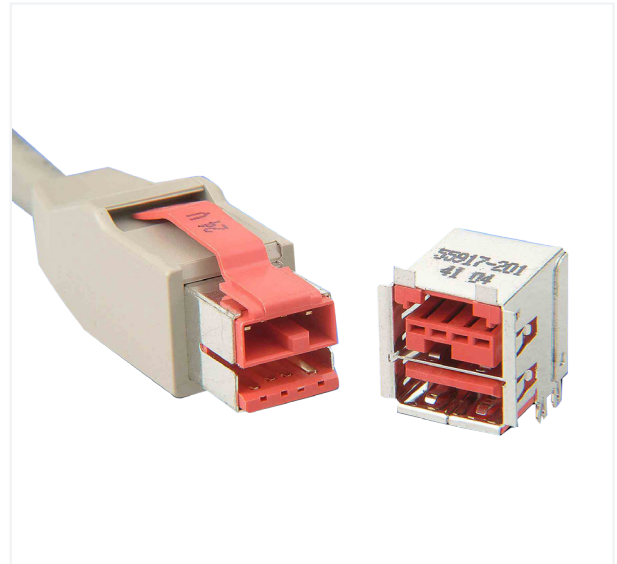**FCI**

USB+POWER INTERCONNECT SYSTEM

OVERVIEW

The USB+Power interconnect system was developed by FCI to enable additional power to be delivered to peripheral devices connected using USB 2.0 cable links. When compared to a standard USB connector, the USB+Power connector interface includes four additional contacts for power delivery, each rated at 5A/contact, to supplement the connector's current–carrying capability.

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

FEATURES & BENEFITS

- Four additional contacts provide up to 5A/contact of additional current–carrying capacity eliminating the need for an external power supply in most peripheral device

- Receptacle mates with standard USB 'A' plug

- Keyed and color coded for different voltages

- Positive latching insures propermating 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

USB+POWER
INTERCONNECT SYSTEM

TECHNICAL INFORMATION

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: 12V/24V/24V DC

- Withstanding voltage: 750V AC min.

- Current rating
  - USB contacts: 1.5A/contact min.
  - Power contacts: 5.0A/contact min.

- Contact resistance: 30mΩ max.

- Signal impedance: 90Ω +/– 15%

MECHANICAL PERFORMANCE

- Meets USB 2.0 standard

- Durability: 1,500 cycles

SPECIFICATIONS

- USB 2.0 compliant

- Product specification: GS–12–130

- Agency approval: UL/CSA

PACKAGING

- Receptacles: Tubes

- Cables: One per bag

Connector Description	Base Part Number	
	PCB Receptacle	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

Cable Termination	ConnectorCable End 1	Connector Cable End 2	Cable Color	Cable Length	Part Number
Single–ended	USB+Power 12V	none	Black	1.0m	10084088–Z0100YYLF
Single–ended	USB+Power 12V	none	Black	3.0m	10084088–Z0300YYLF
Single–ended	USB+Power 24V	none	Black	1.0m	10084089–Z0100YYLF
Single–ended	USB+Power 24V	none	Black	3.0m	10084089–Z0300YYLF
Double–ended	USB+Power 12V	2x4 Latch–n–Lok™ receptacle	Black	1.0m	10089745–Z0100YYLF
Double–ended	USB+Power 12V	2x4 Latch–n–Lok™ receptacle	Black	3.0m	10089745–Z0300YYLF
Double–ended	USB+Power 24V	2x4 Latch–n–Lok™ receptacle	Black	1.0m	10089743–Z0100YYLF
Double–ended	USB+Power 24V	2x4 Latch–n–Lok™ receptacle	Black	3.0m	10089743–Z0300YYLF
Double–ended	USB+Power 24V	1x8 Latch–n–Lok™ receptacle	Black	1.0m	10083511–Z0100YYLF
Double–ended	USB+Power 24V	1x8 Latch–n–Lok™ receptacle	Black	3.0m	10083511–Z0300YYLF
Double–ended	USB+Power 12V	2x3 Latch–n–Lok™ receptacle	Black	1.0m	10083512–Z0100YYLF
Double–ended	USB+Power 12V	2x3 Latch–n–Lok™ receptacle	Black	3.0m	10083512–Z0300YYLF

For more information,
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Disclaimer
Please note that the above information is subject to change without notice.