

# USB+ Power Interconnect System

## COMPACT, ROBUST AND VERSATILE CONNECTOR SYSTEM

Amphenol's USB+ Power Interconnect System was developed to enable additional power to be delivered to peripheral devices connected using USB 2.0 cable links.

- Includes four additional contacts for power delivery
- Rated at 5A/contact, to supplement the connector's current-carrying capability.
- Eliminates the requirement for a separate power source
- Mates with a standard USB 'A' plug
- Individually keyed and color coded for 5V, 12V, and 24V



### TARGET MARKETS



### FEATURES

- Four additional contacts provide up to 5A/contact of additional current-carrying capacity
- Thermoplastic UL94V-0 rated
- Keyed and color coded for different voltages
- Positive latching
- Fully shielded providing USB 2.0 data performance
- Meets USB 2.0 standard
- Ideal for data, Point-of-Sales, hubs and speakers
- Up to 1,500 mating cycles

### BENEFITS

- Eliminates the need for an external power supply in most peripheral device
- High temperature resistance
- Ensures easy identification
- Ensures proper mating and retention
- Ensures high performance
- Compatible with USB 2.0
- Suitable for various application
- Enhanced durability

## TECHNICAL INFORMATION

### MATERIAL

- Receptacles
  - Housing: High Temperature Thermoplastic UL94V-0 rated
  - Contacts: Copper Alloy
  - Shell: Copper Alloy
- Cables
  - Cable jacket: PVC
  - Contacts: Copper Alloy
  - Data conductors: 28AWG twisted pair
  - Power conductors: Non-twisted pair
  - Shield: Aluminized foil and 65% coverage Tinned Copper Braid

### MECHANICAL PERFORMANCE

- Meets USB 2.0 standard
- Durability: 1,500 mating cycles

### PACKAGING

- Receptacles: Tubes
- Cables: One per bag

### ELECTRICAL PERFORMANCE

- Operating voltage: 12V/24V/24VDC
- Withstanding Voltage: 750VAC min.
- Current rating
  - USB contacts: 1.5A/contact min.
  - Power contacts: 5.0A/contact min.
- Contact resistance: 30m $\Omega$  max.
- Signal impedance: 90 $\Omega$   $\pm$  15%

### SPECIFICATIONS

- USB 2.0 compliant
- Product specification: GS-12-130
- Agency approval: UL/CSA

### TARGET MARKETS/APPLICATIONS



Datacom & Telecom



Speaker



Hub  
Personal Computer



Point-of-Sale Equipment

## PART NUMBERS

Connector Description	Base Part Numbers	
	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	Connector Cable End 1	Connector Cable End 2	Cable Color	Cable Length	Part Numbers
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

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