

UNIVERSAL SERIAL BUS CONNECTORS



DESCRIPTION

The Amphenol UE27 and UE28 Series is a complete RoHS compliant interconnect solution designed in accordance with Universal Serial Bus Specification Version 2.0. USB is a suitable alternative for the various input/output interfaces used on personal computers and other consumer electronics, providing a single interface for all of your peripherals with the convenience of plug-and-play.

FEATURES

- Designed to USB specification version 2.0
- Plug-and-play eliminates the need to shut down the system to make modifications
- Metal shell for EMI shielding
- 4 position connector with 2mm centerline signal and 2.5mm centerline power contacts
- Connector is polarized for proper termination
- Can be used with asynchronous and isochronous data transfer methods, supports data rates up to 480 Mbps
- RoHS compliant
- Outer power contact positions accept 20-24 AWG wire
- Signal contact positions accept 26-28 AWG wire
- High temperature material (<260° C) is available on select versions

SPECIFICATIONS

PHYSICAL CHARACTERISTICS

| | |
|------------------------------|--------------------------|
| Housing Flammability Rating: | UL 94V-0 |
| Housing Material: | Thermoplastic |
| Shell Plating: | Nickel over Copper alloy |
| Shell Material: | Copper alloy |
| Solder Tail Plating: | Tin over Nickel |

ELECTRICAL CHARACTERISTICS

| | |
|----------------------------------|---------------------------|
| Voltage Rating: | 30 Vac (rms) |
| Current Rating: | 1 Amp maximum per contact |
| Dielectric Withstanding Voltage: | 750 VAC at sea level |
| Insulation Resistance: | 1000 M Ω |
| Capacitance: | 2 pF maximum |
| Contact Resistance: | 30 m Ω maximum |

MECHANICAL CHARACTERISTICS

| | |
|-----------------|--------------------|
| Durability: | 1500 mating cycles |
| Mating Force: | 35 Newtons maximum |
| Unmating Force: | 10 Newtons minimum |

ENVIRONMENTAL CHARACTERISTICS

| | |
|---------------------|---------------------|
| Temperature Rating: | -55 to 85 degrees C |
|---------------------|---------------------|

APPLICATIONS

- PC/ Laptop
- Digital Camera
- MP3 Player
- Router
- Modem
- Printer
- Switch
- Car/ Home Audio
- Set-Top Box

CONTACT REEL SIZE

- Crimp 20-24 AWG: 10,000 contacts
- Crimp 26-28 AWG: 20,000 contacts

CRIMP CONTACTS ARE NO LONGER AVAILABLE

TYPE A RECEPTACLE



UE27-ACX4-XXX



RECOMMENDED P.C.B. LAYOUT
(COMPONENT SIDE OF BOARD)



UE27-ASX4-XXX



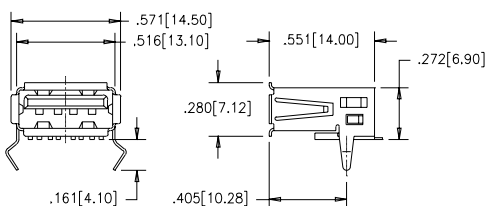
RECOMMENDED P.C.B. LAYOUT
(COMPONENT SIDE OF BOARD)



UE27-AEX4-XOX



RECOMMENDED P.C.B. LAYOUT
(COMPONENT SIDE OF BOARD)



UE27-AMX4-XOH



RECOMMENDED P.C.B. LAYOUT
(COMPONENT SIDE OF BOARD)

TYPE B RECEPTACLE



UE27-BCX4-XXX



RECOMMENDED P.C.B. LAYOUT
(COMPONENT SIDE OF BOARD)

TYPE A PLUG



UE28-AXXX-XXØ

TYPE B PLUG



UE28-BXXX-XXØ

CONTACTS (CRIMP) No Longer Available



UE28-CKXØ-ØØØ



Specifications subject to change without notice. Contact factory for latest specifications