DESCRIPTION

The Amphenol U27 and U28 Series is a complete system of interconnection technology designed in accordance with Universal Serial Bus Specification Version 2.0. This type of connector is designed to replace all the various input output interfaces used on personal computers, providing a single interface for all of your peripherals. The USB system of connectors is being supported by a consortium of peripheral and computer manufacturers which will make it a standard on the next generation of computers and their peripherals.
FEATURES

• Confirms to universal serial bus specification version 2.00
• Supports hot pluggability removing the need to shut down your system to make modifications
• Metal shell for 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
• Plug and Play capability
• Outer power contact positions accept 20-24 AWG wire
• Signal contact positions accept 26-28 AWG wire
• High temperature material (<260º C) is available on select versions

SPECIFICATIONS

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

MECHANICAL CHARACTERISTICS
Durability: 1500 mating cycles
Mating Force: 35 Newtons maximum
Unmating Force: 10 Newtons minimum

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 MΩ
Capacitance: 2 pF maximum
Contact Resistance: 30 mΩ maximum

ENVIRONMENTAL CHARACTERISTICS
Temperature Rating: -55 to 85 degrees C

APPLICATIONS
• Personal Computer
• Computer Peripheral
• Keyboard
• Mouse
• Modem
• Printer
• Joystick
• Game Port
• Speaker

CONTACT REEL SIZE
• Crimp 20-24 AWG: 10,000 contacts
• Crimp 26-28 AWG: 20,000 contacts

TOOLING
• Hand crimp tool part number 357-1002 (For crimping contacts only)
### How to Order Receptacle

**Series:** U27 - Receptacle

**Type:**
- A = Series A
- B = Series B

**Style:**
- C = Right Angle PCB (Series A & B)
- S = Stacked Right Angle PCB (Series A)
- E = Straight PCB (Vertical) (Series A)
- M = Right Angle SMT (Series A)
- D = Vertical Right Angle with Rear Shield (Series A)

**Contact Plating:**
- 1 = 30 µ" Gold/Tin Lead Tails
- 3 = Gold Flash

**Modifier:**
- 0 = Standard Product (Not for M Style)
- H = High Temp Material (+260°F) (Choose for M Style)

**Rear Shielding:**
- 0 = No Shield (Standard)
- 3 = Rear Shield (Available for Style S and Style C in Series B Only)

**Colour:**
- 1 = Black
- 2 = Beige

**Number of Contacts:**
- 4

### How to Order Plug & Contacts

**Series:** U28 - Plug

**Type:**
- A = Series A (Crimp & Preloaded Solder Cup Versions)
- B = Series B (Crimp & Preloaded Solder Cup Versions)
- C = Contacts (Crimp Only)

**Contact Type/Housing:**
- M = Solder Cup (Preloaded Contacts in Housing)
- K = Crimp 26-28 AWG (Contacts Only, Housing to be Ordered Separately)
- L = Crimp 20-24 AWG (Contacts Only, Housing to be Ordered Separately)
- P = Housing Kit Only for Crimp Contacts (Contacts Ordered Separately)

**Contact Plating:**
- 0 = Housing for Crimp Contacts Only (Contacts to be Ordered Separately)
- 1 = 30 µ" Gold/Tin Lead Tails
- 3 = Gold Flash Over Ni (3µ" Gold)

**Modifier:**
- 0 = Standard

**Housing Colour:**
- 0 = Contacts
- 1 = Black (Standard)
- 2 = Beige

**Housing/Contacts:**
- 0 = Crimp Contacts Only
- 1 = Crimp Contact Housing Only (Contacts to be Ordered Separately)
- 4 = Solder Cup Contact & Housing with 4 Contacts Preloaded

(Series A Only)

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