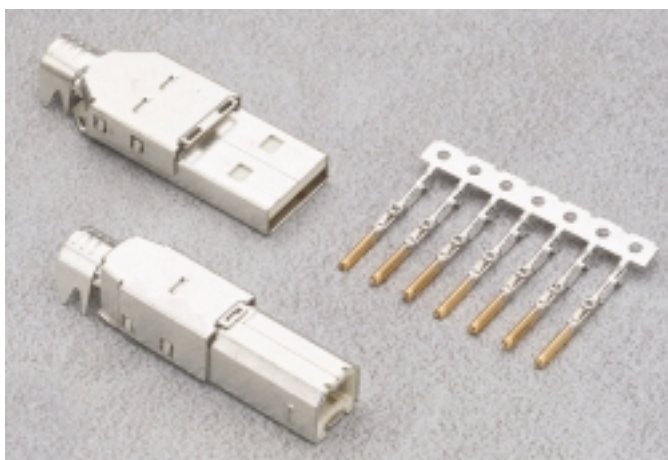
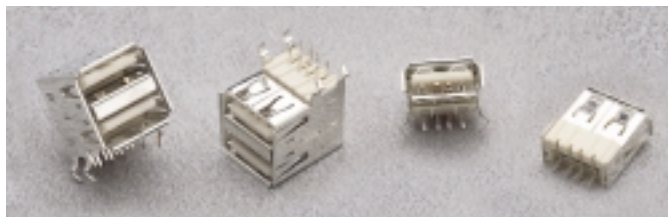


### UNIVERSAL SERIAL BUS CONNECTORS



### 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          |

### 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

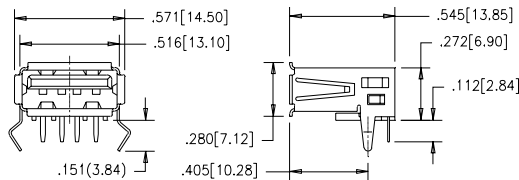
- PC/ Laptop
- Digital Camera
- MP3 Player
- Router
- Modem
- Printer
- Switch
- Car/ Home Audio
- Set-Top Box

## CONTACT REEL SIZE

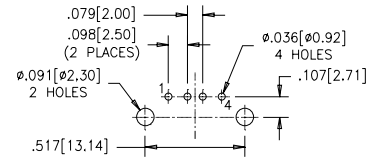
- Crimp 20-24 AWG: 10,000 contacts
- Crimp 26-28 AWG: 20,000 contacts

## CRIMP CONTACTS ARE NO LONGER AVAILABLE

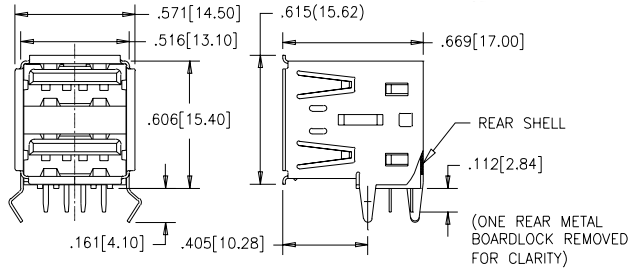
## TYPE A RECEPTACLE



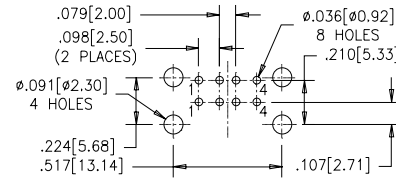
UE27-ACX4-XXX



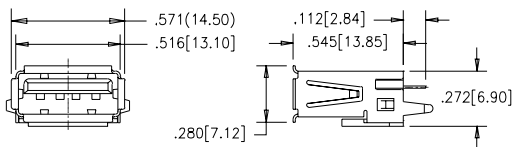
RECOMMENDED P.C.B. LAYOUT  
(COMPONENT SIDE OF BOARD)



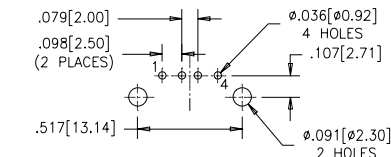
UE27-ASX4-XXX



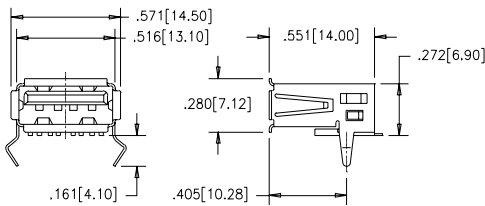
RECOMMENDED P.C.B. LAYOUT  
(COMPONENT SIDE OF BOARD)



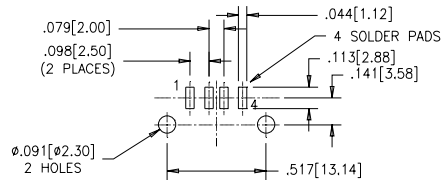
UE27-AEX4-X0X



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

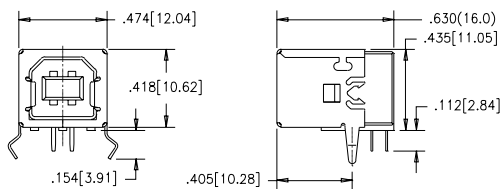


UE27-AMX4-X0H

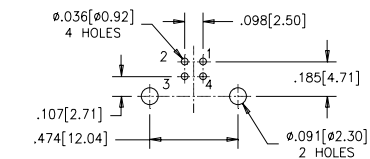


RECOMMENDED P.C.B. LAYOUT  
(COMPONENT SIDE OF BOARD)

## TYPE B RECEPTACLE

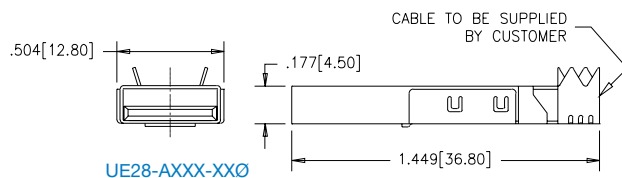


UE27-BCX4-XXX



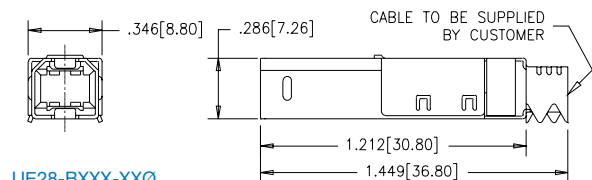
RECOMMENDED P.C.B. LAYOUT  
(COMPONENT SIDE OF BOARD)

## TYPE A PLUG



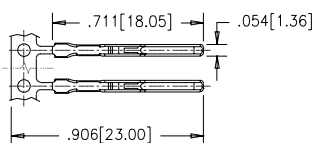
UE28-AXXX-XXØ

## TYPE B PLUG

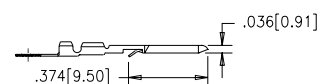


UE28-BXXX-XXØ

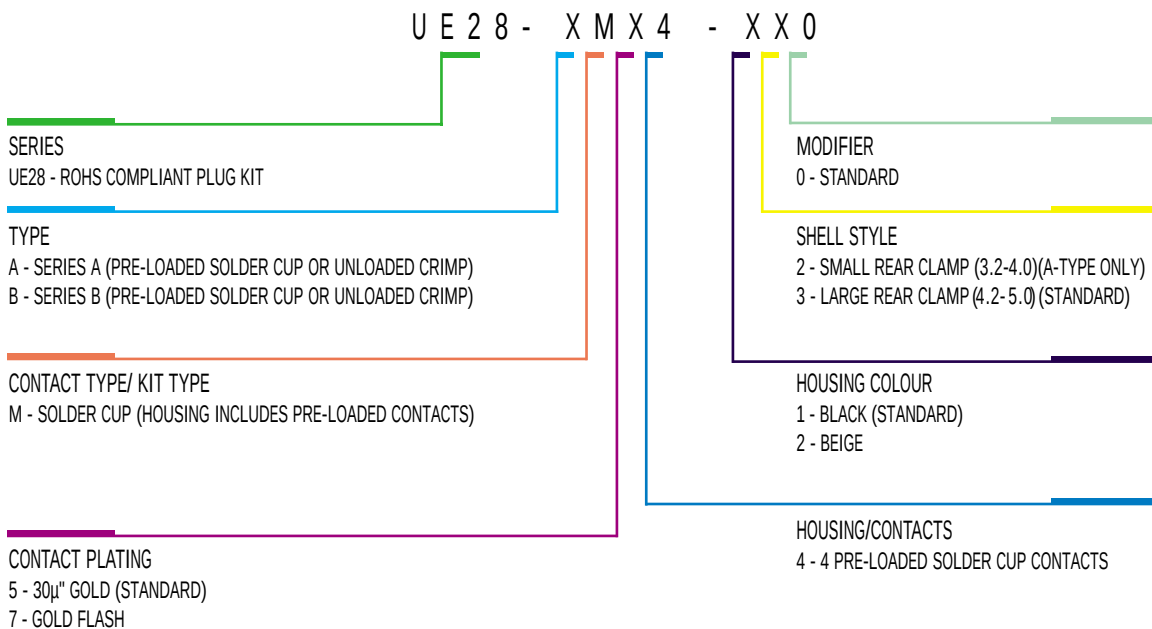
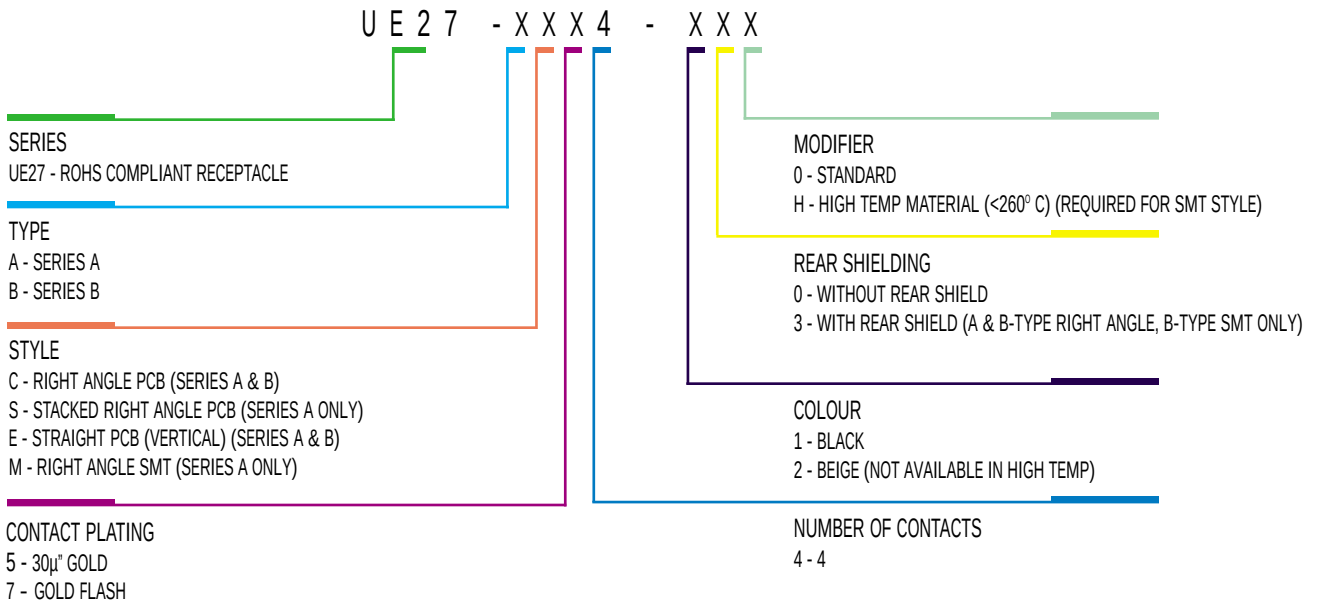
## CONTACTS (CRIMP) No Longer Available



UE28-CKXØ-ØØØ



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



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Specifications subject to change without notice.  
Printed in Canada 08/98 (Electronically modified 04/07)

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