

# Amphenol<sup>®</sup>

## 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

- Conforms 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 M $\Omega$
Capacitance:	2 pF maximum
Contact Resistance:	30 m $\Omega$ maximum

### ENVIRONMENTAL CHARACTERISTICS

Temperature Rating:	-55 to 85 degrees C
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## APPLICATIONS

- P/C Laptop
- Router
- Switch
- Digital Camera
- Modem
- Game Console
- MP3 Player
- Printer
- Set-Top Box

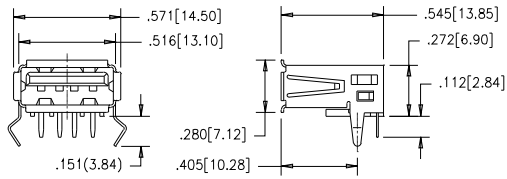
## CONTACT REEL SIZE

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

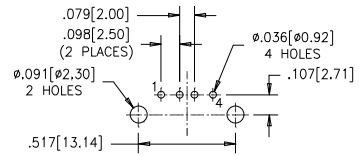
## TOOLING

- Hand crimp tool part number 357-1002 (For crimp contacts only)

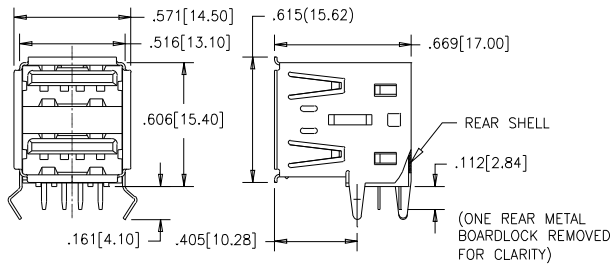
## TYPE A RECEPTACLE



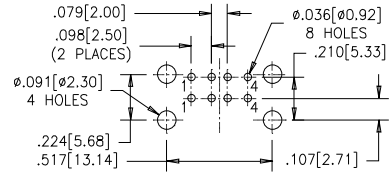
UE27-ACX4-XXX



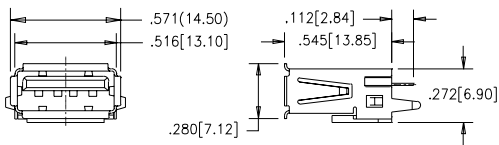
RECOMMENDED P.C.B. LAYOUT  
(COMPONENT SIDE OF BOARD)



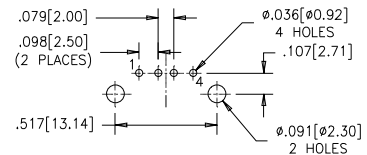
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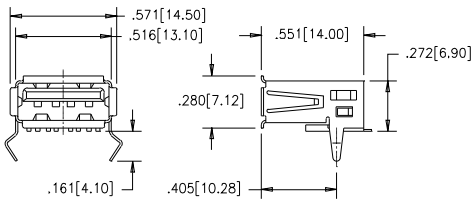
RECOMMENDED P.C.B. LAYOUT  
(COMPONENT SIDE OF BOARD)



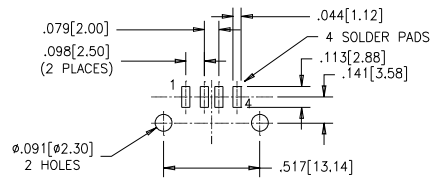
UE27-AEX4-XOX



RECOMMENDED P.C.B. LAYOUT  
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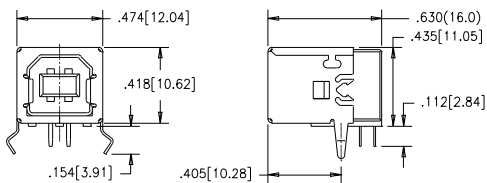


UE27-AMX4-XOH

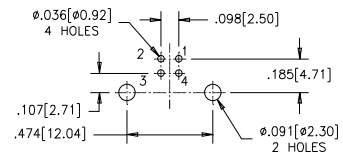


RECOMMENDED P.C.B. LAYOUT  
(COMPONENT SIDE OF BOARD)

## TYPE B RECEPTACLE

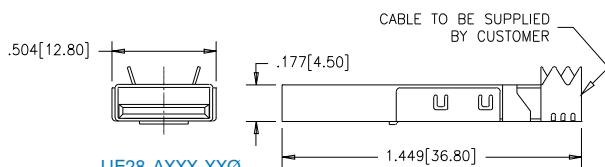


UE27-BCX4-XXX



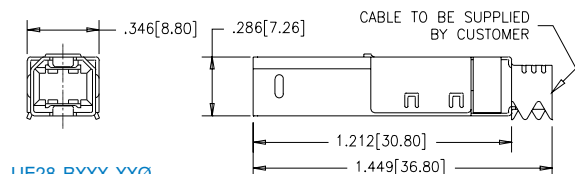
RECOMMENDED P.C.B. LAYOUT  
(COMPONENT SIDE OF BOARD)

## TYPE A PLUG



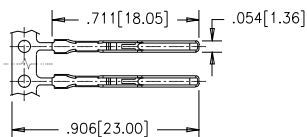
UE28-AXXX-XX0

## TYPE B PLUG

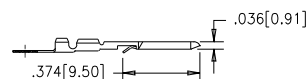


UE28-BXXX-XX0

## CONTACTS (CRIMP)

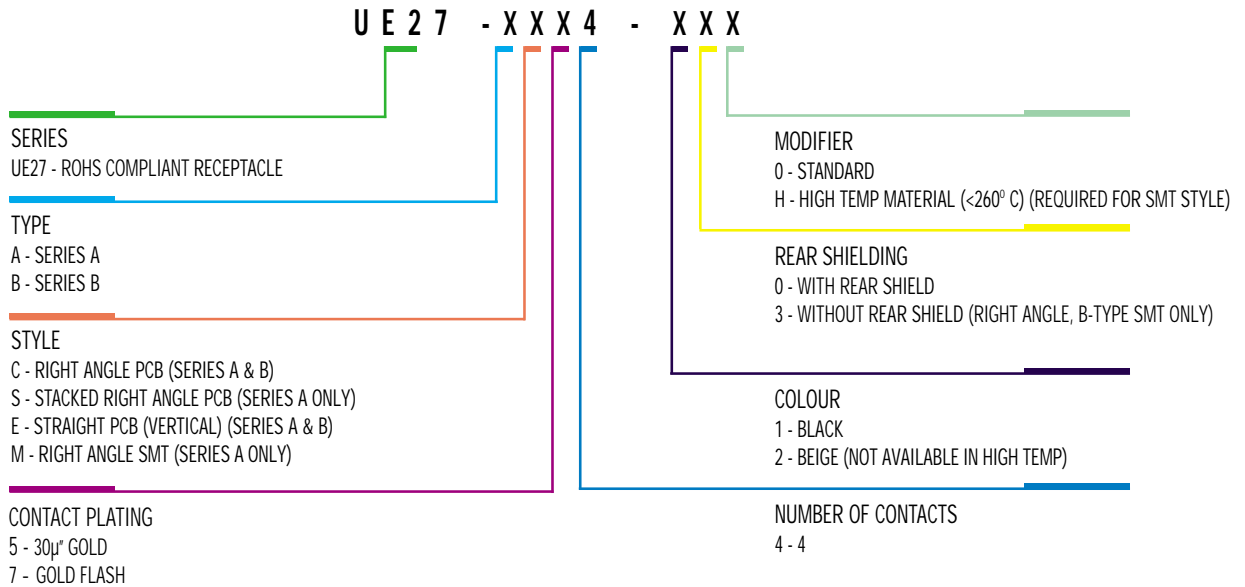


UE28-CKX0-000



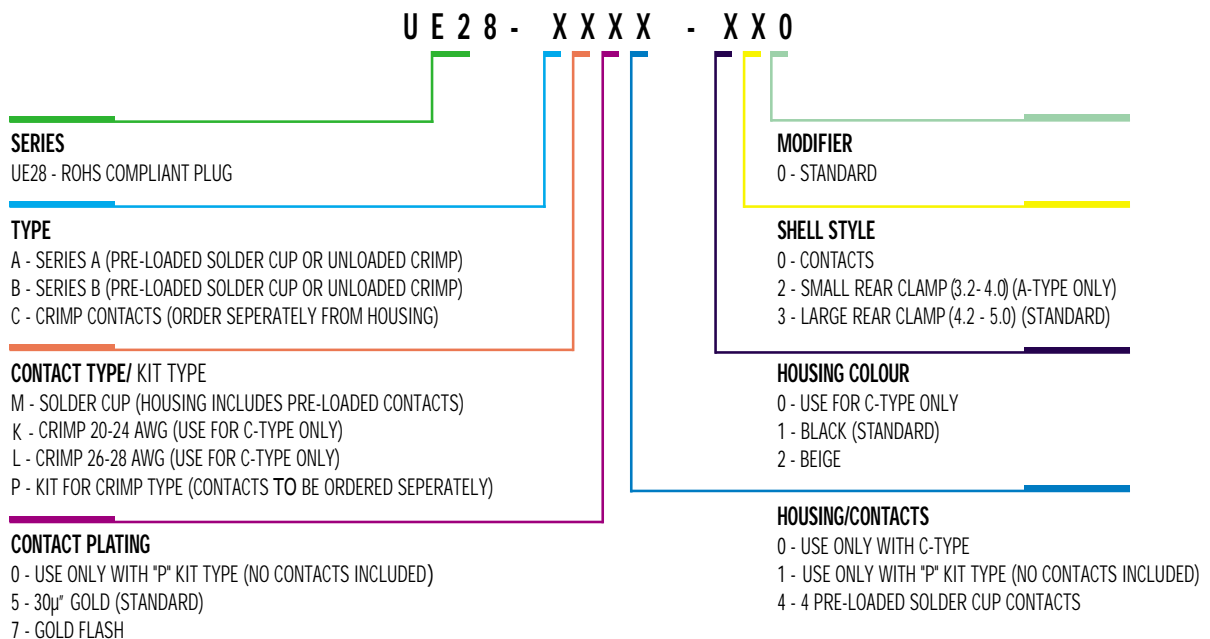
## HOW TO ORDER

## RECEPTACLE



## HOW TO ORDER

## PLUG & CONTACTS



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