USB

Amphenol®

UNIVERSAL SERIAL BUS CONNECTORS

D E S C R I P T I O N

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 (<260º 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 MΩ
Capacitance:	2 pF maximum
Contact Resistance:	30 mΩ 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

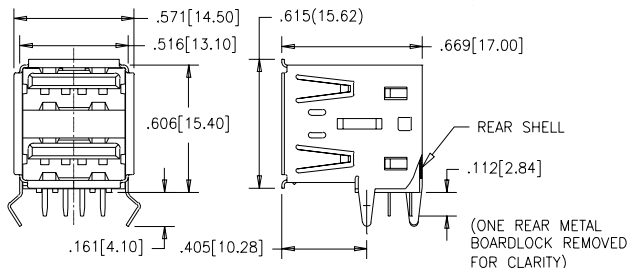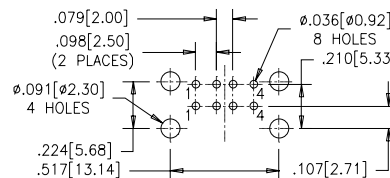## CRIMP CONTACTS ARE NO LONGER AVAILABLE

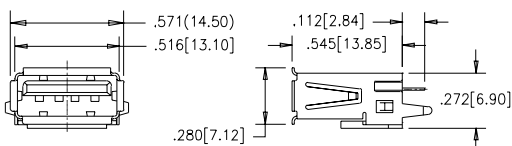## TYPE A RECEPTACLE

UE27-ACX4-XXX

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

UE27-ASX4-XXX

(ONE REAR METAL BOARDLOCK REMOVED FOR CLARITY)
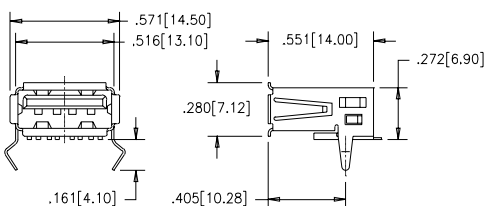REAR SHELL

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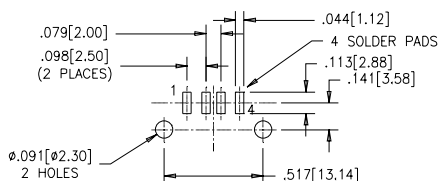(COMPONENT SIDE OF BOARD)

UE27-AEX4-X0X

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

UE27-AMX4-X0H

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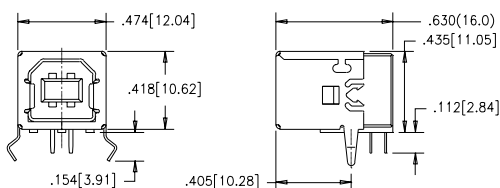
RECOMMENDED P.C.B. LAYOUT
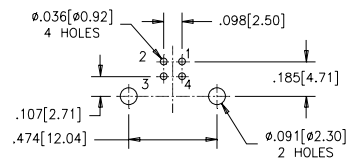(COMPONENT SIDE OF BOARD)

TYPE B RECEPTACLE

UE27-BCX4-XXX

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

TYPE A PLUG

CABLE TO BE SUPPLIED BY CUSTOMER
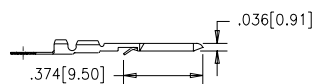
UE28-AXXX-XXØ

TYPE B PLUG

CABLE TO BE SUPPLIED BY CUSTOMER
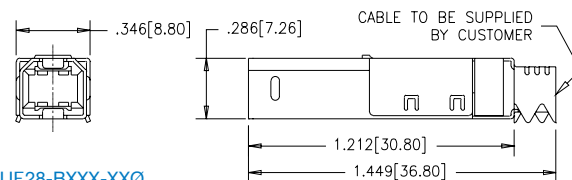
UE28-BXXX-XXØ

CONTACTS (CRIMP) No Longer Available

UE28-CKXØ-ØØØ

Amphenol® Canada Corp.   Telephone: (416) 754-5656   Facsimile: (416) 754-8668

U E 2 7 - X X X 4 - X X X

SERIES
UE27 - ROHS COMPLIANT RECEPTACLE

TYPE
A - SERIES A
B - SERIES B

STYLE
C - RIGHT ANGLE PCB (SERIES A & B)
S - STACKED RIGHT ANGLE PCB (SERIES A ONLY)
E - STRAIGHT PCB (VERTICAL) (SERIES A & B)
M - RIGHT ANGLE SMT (SERIES A ONLY)

CONTACT PLATING
5 - 30µ" GOLD
7 - GOLD FLASH

MODIFIER
0 - STANDARD
H - HIGH TEMP MATERIAL (<260° C) (REQUIRED FOR SMT STYLE)

REAR SHIELDING
0 - WITHOUT REAR SHIELD
3 - WITH REAR SHIELD (A & B-TYPE RIGHT ANGLE, B-TYPE SMT ONLY)

COLOUR
1 - BLACK
2 - BEIGE (NOT AVAILABLE IN HIGH TEMP)

NUMBER OF CONTACTS
4 - 4

U E 2 8 - X M X 4 - X X 0

SERIES
UE28 - ROHS COMPLIANT PLUG KIT

TYPE
A - SERIES A (PRE-LOADED SOLDER CUP OR UNLOADED CRIMP)
B - SERIES B (PRE-LOADED SOLDER CUP OR UNLOADED CRIMP)

CONTACT TYPE/ KIT TYPE
M - SOLDER CUP (HOUSING INCLUDES PRE-LOADED CONTACTS)

CONTACT PLATING
5 - 30µ" GOLD (STANDARD)
7 - GOLD FLASH

MODIFIER
0 - STANDARD

SHELL STYLE
2 - SMALL REAR CLAMP (3.2-4.0)(A-TYPE ONLY)
3 - LARGE REAR CLAMP (4.2- 5.0) (STANDARD)

HOUSING COLOUR
1 - BLACK (STANDARD)
2 - BEIGE

HOUSING/CONTACTS
4 - 4 PRE-LOADED SOLDER CUP CONTACTS

Amphenol®

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