INFINITY

INFINITY Amphenol Data/Telecom's High Speed INFINITY (4X/12X) series of connectors facilitate data speeds up to 75 Gbps total bandwidth, as required by InfiniBand™, Fibre Channel and Serial Attached SCSI Trade Associations, with superior EMI performance. INFINITY connectors are high-density, hot pluggable and meet SFF-8470 specifications. A variety of receptacles are available that will fit multiple connectors into a 1U form factor and PCI bracket. All receptacles are available with standard or RoHS compliant materials.

RECEPTACLE

- InfiniBand™
- Fibre Channel
- 10Gb Ethernet
- SAS, External (Serial Attached SCSI)
- SFF-8470
- CX4

APPLICATIONS

- Datacom Devices
- HCAs (Host Controller Adapters)
- High Speed Routers and Switches
- Storage Devices
- SANs (Storage Area Networks)
- Servers
- RAID
- XAUI

Ordering Information Infinity Receptacle U65 - E 04 - 1 2 1 0 - (T) INFINITY RECEPTACLE B - 2 Locating Posts and 2 or 4 Solder Posts E - 2 Locating Posts and 2 or 4 Screw Mounting Holes F - Belly-to-Belly (2 Locating Posts and Through-Hole Mounting) P - 2 Locating/Friction Posts and 2 Screw Mounting Holes*** **CONNECTOR TYPE** -**04** - 4X **12** - 12X **CONTACT PLATING** 1 - 50µ" Gold plating 2 - 30µ" Gold plating 4 - 50µ" Gold plating (RoHS Compliant) 5 - 30µ" Gold plating (RoHS Compliant) HARDWARE OPTION Lanyard Application 0 - Lock Plate

Contact Amphenol for additional options

PACKAGING
Blank - Tray Packaging

- T Tape and Reel Packaging
- C Rear Cover (bulk packed)
- CT Rear Cover (bulk packed)
 with Tape and Reel Packaging

KEYING OPTION:

0 - No Keying

APPLICATION:

- Lanyard Latch (Without arms)
 Applications: InfiniBand™
- 2 Thumbscrew (Without arms) Applications: Fibre Channel / SAS / 10Gb Ethernet
- **6** Lanyard Latch (With arms) Applications: InfiniBand™
- **7** Lanyard Latch (With arms and top mounting ear)

 Applications: InfiniBand™
- 8 Thumbscrew (With arms)

 Applications: Fibre Channel / SAS / 10Gb Ethernet

INFINITY RECEPTACLE ACCESSORIES (ORDER SEPARATELY)

U65-404-21-P = 4X One-piece Lock Plate*

U65-404-60-P = 4X Optional Rear Cover

U65-404-61-P = 4X Belly-To-Belly Optional Rear Cover

U65-412-21-P = 12X One-piece Lock Plate*

U65-412-60-P = 12X Optional Rear Cover

U65-404-40-P = Thumbscrews (Standard)**

U65-404-41-P = Thumbscrews (Self-locking)**

www.infinityconnectors.com

Notes

*** Thumbscrew 12X Application Only

Lanyard Application Only

** Thumbscrew Application Only

1 - One-Piece Lock Plate 2 - Without Lock Plate

Thumbscrew Application

O - Standard screw (Bulk packed)

1 - Self-locking screw (Bulk packed)

2 - Without screws (Order separately)



MATERIAL SPECIFICATIONS

Plastic Insert High temperature resistant nylon; Flammability rating – UL94V-0

Contacts Phosphor bronze; 50μ" [1.27μm] or 30μ" [0.76μm] gold plating over nickel

on mating area and tin-lead plating over nickel (standard) or 2µ" [0.05µm] gold plating

over nickel (RoHS compliant) on PCB terminations

Shield Die cast; Nickel plated

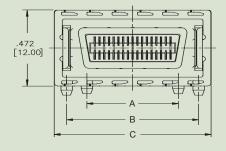
ELECTRICAL AND ENVIRONMENTAL SPECIFICATIONS

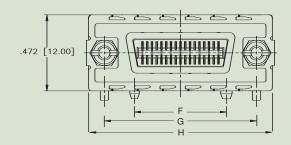
Current Rating 0.5 Amps maximum/contact DWV 30 VAC

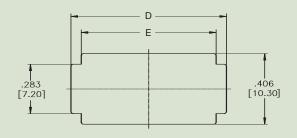
Contact Resistance 80mΩ maximum initial **Operating Temperature** -40°C to +85°C

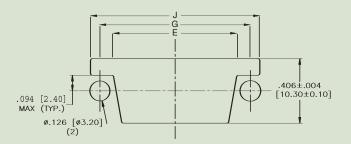
Insulation Resistance 1000M Ω minimum Durability 250 mating cycles

TECHNICAL SPECIFICATIONS







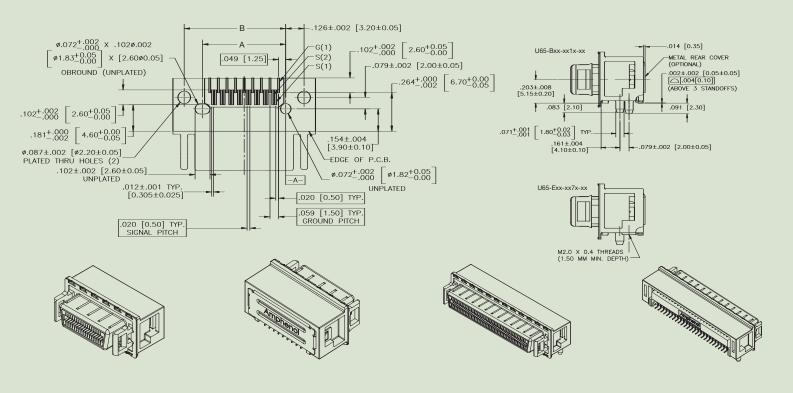


| | INFINITY RECEPTACLE | | | С | D | | | | | |
|---|---------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|
| 12X 1.516 [38.50] 1.768 [44.90] 1.923 [48.85] 1.839 [46.70] 1.720 [43.70] 1.516 [38.50] 1.890 [48.00] 2.114 [53.70] 2.008 [51.00] | 4X | 0.571 [14.50] | 0.823 [20.90] | 0.978 [24.85] | 0.894 [22.70] | 0.776 [19.70] | 0.571 [14.50] | 0.945 [24.00] | 1.169 [29.70] | 1.063 [27.00] |
| | 12X | 1.516 [38.50] | 1.768 [44.90] | 1.923 [48.85] | 1.839 [46.70] | 1.720 [43.70] | 1.516 [38.50] | 1.890 [48.00] | 2.114 [53.70] | 2.008 [51.00] |

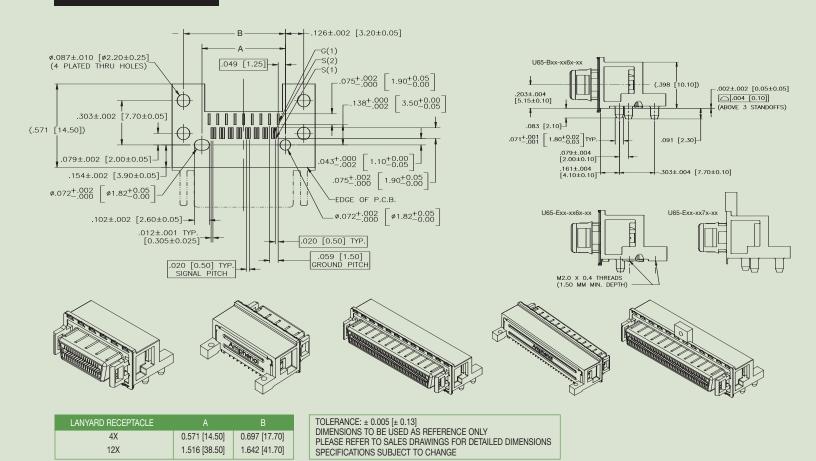
TOLERANCE: ± 0.005 [± 0.13] DIMENSIONS TO BE USED AS REFERENCE ONLY PLEASE REFER TO SALES DRAWINGS FOR DETAILED DIMENSIONS SPECIFICATIONS SUBJECT TO CHANGE

INFINITY

LANYARD WITHOUT ARMS

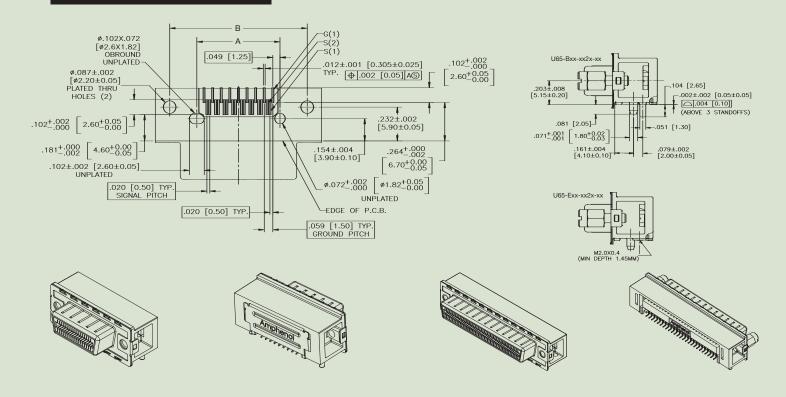


LANYARD WITH ARMS



INFINITY

THUMBSCREW WITHOUT ARMS



THUMBSCREW WITH ARMS

