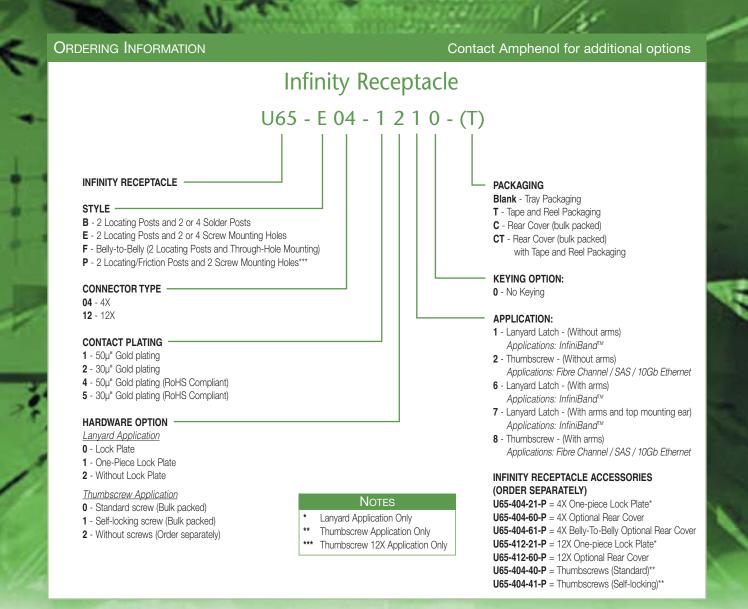
### **INFINITY** Amphenol Data/Telecom's High Speed INFINITY (4X/12X) series of connectors facilitate data speeds up to 75 Gbps total bandwidth, as required by InfiniBand<sup>™</sup>, Fibre Channel and Serial Attached SCSI Trade Associations, with superior EMI performance. INFINITY connectors are highdensity, 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<sup>™</sup>
- 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



## www.infinityconnectors.com

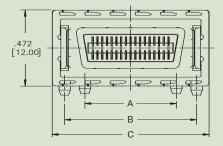
### MATERIAL SPECIFICATIONS

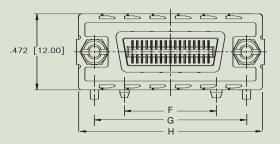
Plastic InsertHigh temperature resistant nylon; Flammability rating – UL94V-0ContactsPhosphor bronze; 50μ" [1.27μm] or 30μ" [0.76μm] gold plating over nickel<br/>on mating area and tin-lead plating over nickel (standard) or 2μ" [0.05μm] gold plating<br/>over nickel (RoHS compliant) on PCB terminationsShieldDie cast; Nickel plated

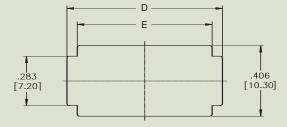
### ELECTRICAL AND ENVIRONMENTAL SPECIFICATIONS

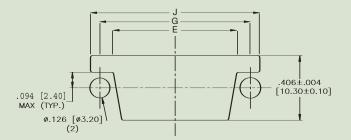
Current Rating	0.5 Amps maximum/contact	DWV	30 VAC
Contact Resistance	$80m\Omega$ maximum initial	Operating Temperature	-40°C to +85°C
Insulation Resistance	1000M $\Omega$ minimum	Durability	250 mating cycles

### **TECHNICAL SPECIFICATIONS**







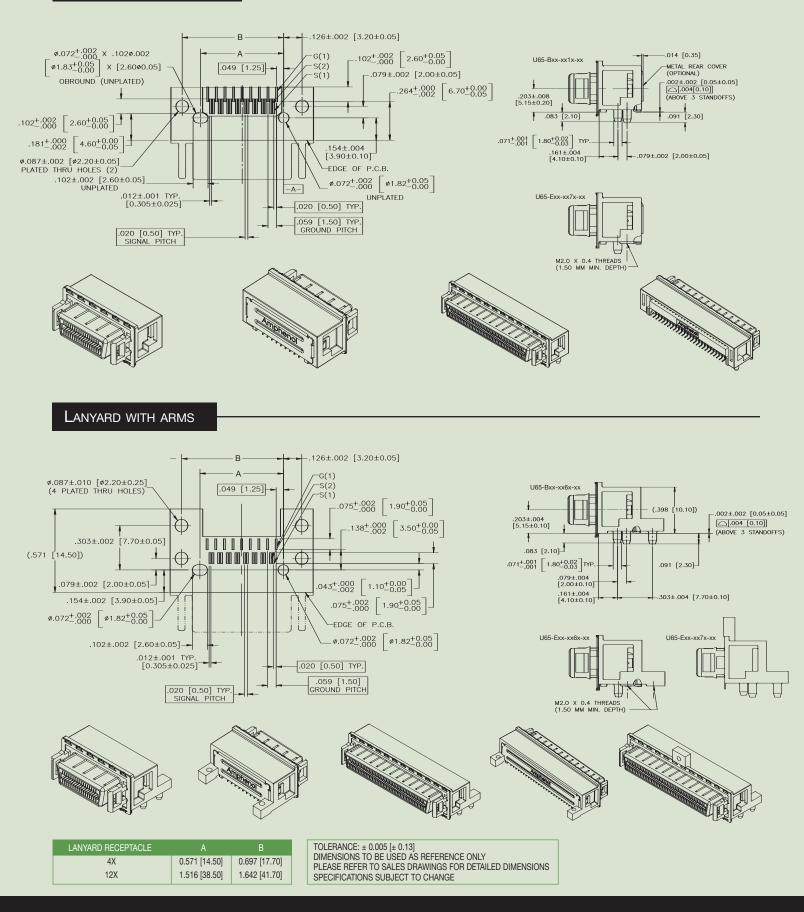


INFINITY RECEPTACLE	А	В	С	D	Е	F	G	Н	J
4X	0.571 [14.50]	0.823 [20.90]	0.978 [24.85]	0.894 [ 22.70]	0.776 [19.70]	0.571 [14.50]	0.945 [24.00]	1.169 [29.70]	1.063 [27.00]
12X	1.516 [38.50]	1.768 [44.90]	1.923 [48.85]	1.839 [46.70]	1.720 [43.70]	1.516 [38.50]	1.890 [48.00]	2.114 [53.70]	2.008 [51.00]
TOLERANCE: ± 0.005 [± 0.13] DIMENSIONS TO BE USED AS REFERENCE ONLY PLEASE REFER TO SALES DRAWINGS FOR DETAILED DIMENSIONS SPECIFICATIONS SUBJECT TO CHANGE									

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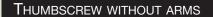
4

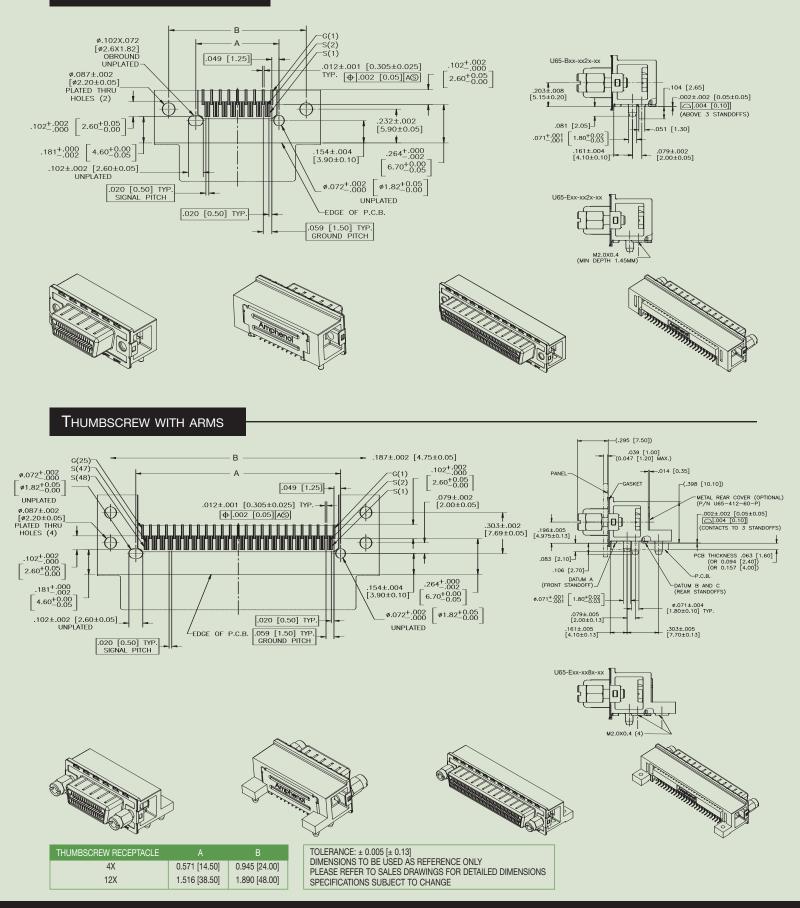




### RECEPTACLE

# INFINITY





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6

**INFINITY** Amphenol Data/Telecom's High Speed INFINITY (4X/12X) series of plugs facilitate data speeds up to 75 Gbps total bandwidth, as required by InfiniBand<sup>™</sup>, Fibre Channel and Serial Attached SCSI Trade Associations. INFINITY plug and connector systems are high-density, hot pluggable and meet SFF-8470 specifications. Plug kits are available with a variety of cable size options as well as a unique low profile version that will allow for connection to two receptacles – one on top of the other – in a 1U form factor chassis.

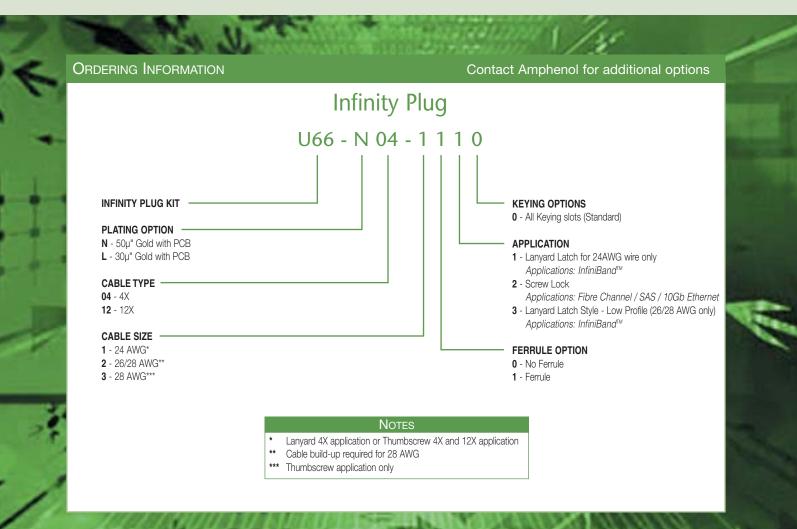
- and a
- InfiniBand™
- Fibre Channel
- 10Gb Ethernet
- SAS, External (Serial Attached SCSI)

PLUG

SFF-8470CX4

#### **A**PPLICATIONS

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



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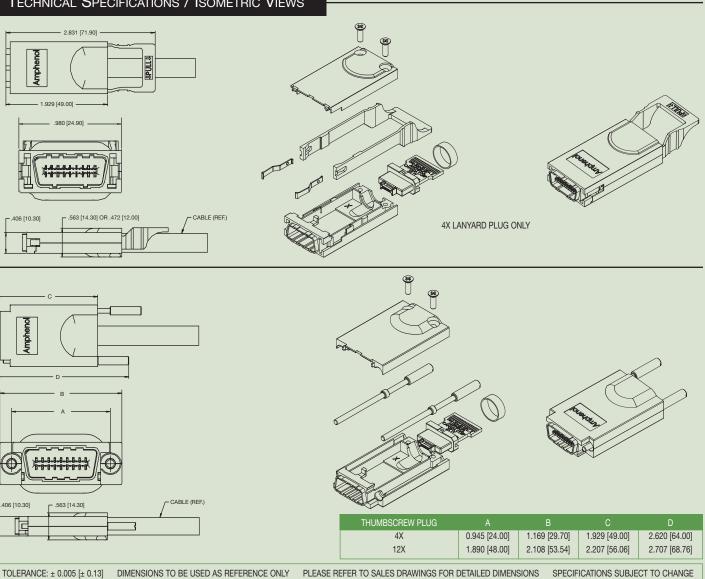
### MATERIAL SPECIFICATIONS

Plastic Insert	High temperature resistant nylon; Flammability rating – UL94V-0
Contacts	Phosphor bronze; $50\mu$ " [1.27 $\mu$ m] or $30\mu$ " [0.76 $\mu$ m] gold plating over nickel on contact mating area and tin-lead plating over nickel on termination area
Shield	Die cast; Nickel plated

### ELECTRICAL AND ENVIRONMENTAL SPECIFICATIONS

Current Rating	0.5 Amps maximum/contact	DWV	30 VAC
Contact Resistance	$80m\Omega$ maximum initial	Operating Temperature	-40°C to +85°C
Insulation Resistance	1000M $\Omega$ minimum	Durability	250 mating cycles

### **TECHNICAL SPECIFICATIONS / ISOMETRIC VIEWS**



8



For more information about INFINITY (4X/12X), HSSDC, VHDCI, SFP or other High Speed products, please contact your local Amphenol Sales Representative, or contact:

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