# Infinity Receptacle





Amphenol's INFINITY (4x/12x) series of connectors facilitate data speeds up to 60 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. They are capable of data rates beyond 5.0 Gbps per channel. 4x and 12x versions of receptacles are available with lanyard latch or screw lock styles.

### **Specification Highlights**

The Infinity interconnect system is comprised of a 0.8 mm pitch SMT receptacle complying with SFF-8470.

#### **Mechanical Characteristics**

- Co-planarity specification: 0.1 mm
- Connector insertion force: 55.5 N max (4x version)
- Connector withdrawal force: 6.1 N typical (4x version)
- Durability: 250 mating cycles minimum

#### **Electrical Characteristics**

- Differential impedance: 100  $\Omega$  +/- 10  $\Omega$
- DWV: 300 V AC
- Insulation resistance: 10 G $\Omega$  min
- Contact resistance: 80 mΩ max
- Rise time for impedance measurement: 70 ps
- Within pair skew: 5 ps

#### **Options**

- Number of channels
  - 4x 12x
- Mating style
  - Screw lock style
  - Lanyard latch style
- Mounting style
- Screw mount
- Solder post
- Extended arms

#### **Materials**

- Shell
  - · Base material: zinc alloy
  - · Plating: nickel
  - · Rear cover: stainless steel
  - · Jack screw: steel with nickel plating
  - · Gasket: stainless steel
  - Locking plate: stainless steel
- Connector
  - Contact base material: copper alloy
  - Contact plating: gold on mating area; tin or tin-lead on termination
  - Housings: glass reinforced, lead-free solder reflow process compatible thermoplastic, UL94V-0 rated

#### **Temperature Rating**

- Operating temperature: -40 °C to +85 °C
- Storage temperature: -40 °C to +85 °C

### **Packaging**

- Tape and reel packaging
- Tray packaging



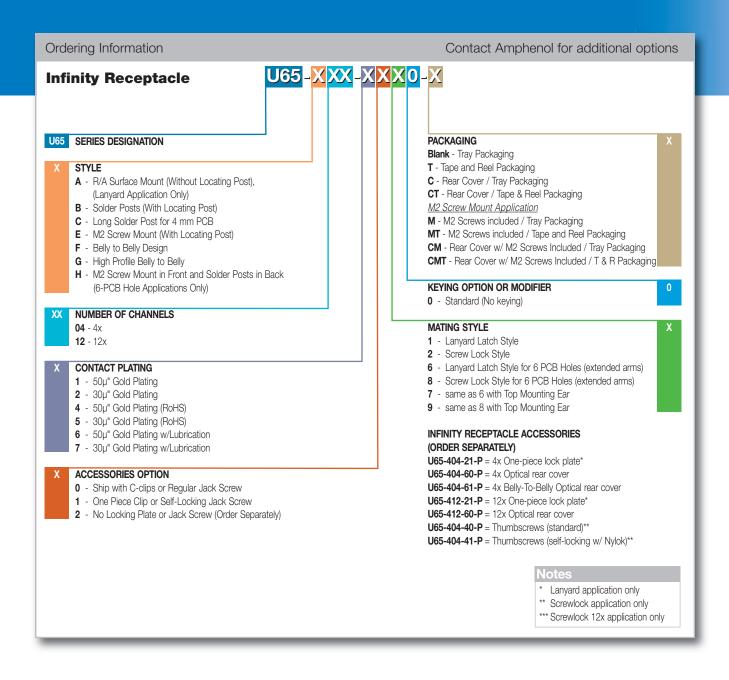
Lanyard latch with rear arms and solder posts U65-B04-40C0-T



Lanyard latch with rear arms, screw mount U65-E04-2010



Lanyard latch with top mounting, rear arms U65-H04-40D0-T



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<u>U65B047220T U65E124464T U65B045010CT U65E044220 U65B045110 U65B044060T U65B045170T U65E045220 U65E124120 U65B044110T U65B045120 U65E124460T U65B045120T U65B045320T U65B044210 U65C044170T U65B044210T U65E045120 U65B044220T U65B045220 U65B045280T U65F044460T U65B045020 U65B044010CT U65E044120T U65B044160T U65E124360T U65E045020</u>