

INTRODUCING METAL SHELL MICRO CIRCULAR CONNECTORS

- Meet the latest military and commercial aerospace signaling requirements with gigabit Ethernet, USB 2.0 and IEEE 1394 compatibility
- Save space and weight with lightweight materials



TE Connectivity (TE) introduces the metal-shell micro circular connectors, a complete line of small circular connectors ideal for rugged military and commercial applications. The versatile metal-shell micro circular connectors have been tested for harsh environments and offer multiple coupling styles, contacts and mounting options. New additions to the original product line include in-line receptacles, a new band strap for termination of braided metallic shielding and a new 30-position, size M22 shell. The product family is IEEE 1394 compatible and able to perform to the latest military and commercial signaling requirements including gigabit Ethernet and USB 2.0. Metal-shell micro circular connectors from TE provide rugged reliability to withstand vibration and shock, and feature excellent electrical performance, a high mating life cycle, and IP67 environmental sealing.

KEY BENEFITS

- Enable design flexibility with 7, 14, 19 and 30 position sizes and M11, M15, M14 and M22 shell sizes to meet all signaling and equipment space requirements
- Optimize high-speed data transmission and improve signal integrity through uniform cross talk cancellation
- Meet the latest military and commercial aerospace signaling requirements with gigabit Ethernet, USB 2.0 and IEEE 1394 compatibility
- Save space and weight with lightweight materials
- Offer versatility with three coupling styles: push-pull, bayonet and threaded
- Utilize for harsh environments with IP-67 sealing with individual O-rings on all contacts and 120 hours salt spray resistance

APPLICATIONS

- Radios
- Soldier Worn Equipment
- Commercial Aviation
- Helicopters and Jets
- Military Air Systems
- Military Ground Systems
- Military Communication and Computer Systems

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ELECTRICAL

- One Gigabit per second Ethernet compatible
- USB 2.0 compatible
- IEEE 1394 compatible
- Current Carrying: 2 amps max.
- Operating voltage: 200 VAC max.
- Termination Resistance: 30 milliohms max.

MECHANICAL

- Three coupling styles: Push-Pull, Bayonet and Threaded
- Two contact designs: Pin & Socket and Spring Probe
- Four position and shell sizes: 7 position (shell size M11), 14 position (shell size M15), 19 position (shell size M14) and 30 position (shell size M22)
- Multiple mounting options: PCB mount, Rear Panel mount, Solder cup wire termination
- IP-67 sealing qualified
- 120 hours salt spray qualified
- 2,000 mating cycles
- Operating temperature: -55°C to +150°C

MATERIALS

- Shell: Brass, black tin-nickel plated
- Insert: LCP
- Contacts: Brass, plated gold over nickel
- O-ring: Fluorosilicone