Fortifying Designs for Critical Applications in Extreme Conditions

bulgin

Bulgin's *600 Series of Ethernet Buccaneer Connectors* deliver dependable connectivity, replacing standard ethernet connectors more at risk for damage in extreme conditions. Supplied with a 100% transversely sealed IP68 rating, the 600 series connectors protect against dust, moisture, water, vibrations, and severe temperatures. These connectors are available in jam nut, flange mount, inline plug, and plug options with EMI shielded and unshielded versions. With an aluminum body, stainless steel hardware, and silicone seals, reliable ethernet connectivity is available across various settings, including industrial, defense, and outdoor.

Applications

- Industrial Process Control
- Communication Systems
- Mobile Equipment Transit Cases
- Data Acquisition and Control
- Radar Systems
- Telecommunications
- Outdoor Broadcast

Product Options

- Transversely Sealed Inline Plug
- Plug with Cap
- Plug
- Jam Nut with Cap
- Jam Nut
- Transversely Sealed Flange Mount
- Flange Mount with Cap & Mounting Hardware
- Flange Mount with Mounting Hardware
- Flange Mount

Key Features

- Cat 5e & Cat 6a Compliant
- Supports 10, 100 & 1,000 Mbps Data Transmissions
- POE, POE+ & POE++
- DATA, VOiP & IPTV in Harsh Environments
- Durability >500 Cycles
- Sealing Cap Option is Available
- Operating Temperature -40°C to +100°
- Screw Coupling
- IP68-Rated
- EMI Shielded & Unshielded Versions
- Transversely Sealed IP68 when Mated & Unmated

Product Specifications

Electrical

- Operating Temperature Range: -40°C – 100°C
- Shock Resistance: 6ms
- Humidity: 98%
- Insertion Loss: 1000 BASE-T
- Hi-Pot High-Voltage Test: 600VAC-60Hz, 900uA
- Shell-to-Shell Conductivity: 1A @ 1.5VDC, 100hrs
- Electromagnetic Shielding Effectiveness: 20kHz, 150kHz, 14MHz, 400MHz, 600MHz, 1GHz, 2GHz, 8GHz, 10GHz, Vert. and Horz., <-60dB

Mechanical

- Cycles: >500
- Sealing: IP68
- Termination: Crimp Terminals
- Salt Spray: 500hr
- Mechanical Shock: 100G (6ms)
- Dust Test: 20mBARS Air Pressure, 8hrs
- Water Submersion: 1M Depth, 48hr
- Flammability: Compliant to VO, V1, 10 Sec Each
- Panel Mount Thickness: 1.5-5mm
- Panel Mount Nut Torque: 1.6-1.7Nm