

Boltrack™ Connector

HIGH PERFORMANCE I/O FOR PoE & INDUSTRIAL

Boltrack™ connector is a robust and reliable interconnect solution. It features high power and signal performance, small form factor, field termination, EMI shielding, lightning protection and resistivity to over voltages. Boltrack™ connector comes in 4 pair right angle board and plug mating combination.

- High power delivery capability
- Superior signal integrity and resistivity to surge voltage
- LED, press-fit and pin-in-paste options for board connector
- Small form factor with 4 additional pins option
- Plug with dual beam contacts and 4 point IDC



TARGET MARKETS



FEATURES

- Meets Cat 5e, Cat 6 for signal integrity and ANSI requirement for clearance and creepage distance
- Small form factor interface and with 4 additional contacts loading option
- Dual beam plug connector contact
- Current rating of 1.5A/contact
- Board header with press-fit and pin-in-paste options
- Wrap around shields, LED option, high temperature resin
- Four point contacts for plug IDC termination
- Low cost and lightweight hand tool for IDC process

BENEFITS

- Superior signal integrity and surge resistivity
- Double the density of RJ45
- Reliability and no arcing damage on contact resting position
- Supports PoE+ and PoE++ standards
- Suitable for wide range of assembly process
- Ideal for wide range of applications and environments
- Ensures positive termination to cable
- Easy to handle field terminations

TECHNICAL INFORMATION

MATERIAL

- Housing:
 - Board Connector: LCP
 - Cable Connector: PBT for front, PC for rear, Sylcon for grommet
 - Contact & Shield: Copper Alloy

MECHANICAL PERFORMANCE

- Durability: 500 mating cycles
- Mating Connector Insertion Force: 6N max.
- Mating Connector Pull Retention Force: 50N min.

ELECTRICAL PERFORMANCE

- Current Rating: 1.5A per pin at 57VDC
- Overvoltage Resistivity: up to 2500V
- Insertion Loss: -0.1 at 100MHz (Typical)
- Return Loss: -35db at 100MHz (Typical)
- NEXT Crosstalk: -54db at 100Mhz (Typical)
- Dielectric Withstanding Voltage: 2000V

ENVIRONMENTAL

- Operating Temperature: -40°C to +125°C
- Storage Temperature: -65°C to +125°C

SPECIFICATIONS

- Telecordia CO, GR-1217-CORE
- IEC 61076-4-104
- ANSI
- UL1977

APPROVAL AND CERTIFICATION

- UL pending

PACKAGING

- Tube/Tray packaging for board connector
- Tray packaging for cable connector kit
- Plastic bags for patch cords

TOOLING INFORMATION (OPTIONAL)

- Hand Tool

TARGET MARKETS/APPLICATIONS



Base Station/Ethernet Radio
Telecom



Heated Cameras
POS Terminals
Security Cameras
Video Surveillance IP Cameras
Video Conferencing
Video IP Phones



BlueTooth Access Points
Network
Router
Thin Client Workstations



Access Control
Building Infrastructure
Door Interlock Systems
Digital Signage
Home Automation
Industrial
Lighting
Machine to Machine Interface



Analyzers
Imaging
Monitoring

- PoE
- IoT

PART NUMBERS

Description	Part Numbers
4 pair right angle board connector with shielding, without LED	10137391-100LF
4 pair cable connector field terminable kit with shielding	10138200-101LF
4 pair right angle board connector with shielding and LED	10137391-101LF
Double ended 4 pair shielded cable assembly, 200cm	10141442-M0200YYLF

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