

# 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

## 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 |

### 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

#### Disclaimer

Please note that the above information is subject to change without notice.