

# 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

### 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

**NEW**



### TARGET MARKETS



### 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

### ELECTRICAL PERFORMANCE

- Current Rating: 1.5A per pin at 57VDC
- Overvoltage Resistivity: up to 2500V
- Insertion Loss: -0.0082 at 100MHz (Typical)
- Return Loss: -37db at 100MHz (Typical)
- NEXT Crosstalk: -60db at 100Mhz (Typical)
- Dielectric Withstanding Voltage: 2000V

### MECHANICAL PERFORMANCE

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

### ENVIRONMENTAL

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

### APPROVALS & CERTIFICATION

- UL pending

### SPECIFICATIONS

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

### 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



Telecom  
Base Station/Ethernet Radio



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



Router  
Thin Client Workstations  
BlueTooth Access Points  
Network



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



Imaging  
Monitoring  
Analyzers

- 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-M0200YLF

INOBOLTRACK1016EA4

#### Disclaimer

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