

PRODUCT BRIEF

KEY FEATURES

- ▶ Single 1.0 - 10.3125 Gb/s bi-directional link
- ▶ Lightweight
- ▶ Low power dissipation: <500mW typical per end
- ▶ Small cable bend radius
- ▶ Thin cable for large port count architectures and easy installations
- ▶ Small RJ-45 width connector
- ▶ Available lengths: 3m, 5m, 10m, and 30m
- ▶ Metal enclosure for low EMI
- ▶ Single 3.3V power supply
- ▶ Visible LED link indicator
- ▶ Operating temperature range: 0°C to 60°C
- ▶ RoHS compliant and Lead Free
- ▶ SFP+ and XFP adapter modules available for legacy connections

APPLICATIONS

- ▶ 1/10GbE
- ▶ LAN on Motherboard (LOM)
- ▶ 1/2/4/8x FC
- ▶ QDR x1
- ▶ Proprietary High Speed Interconnects
- ▶ SAS/SATA
- ▶ PCI-e
- ▶ HDMI
- ▶ DisplayPort

ACTIVE OPTICAL CABLE

OVERVIEW

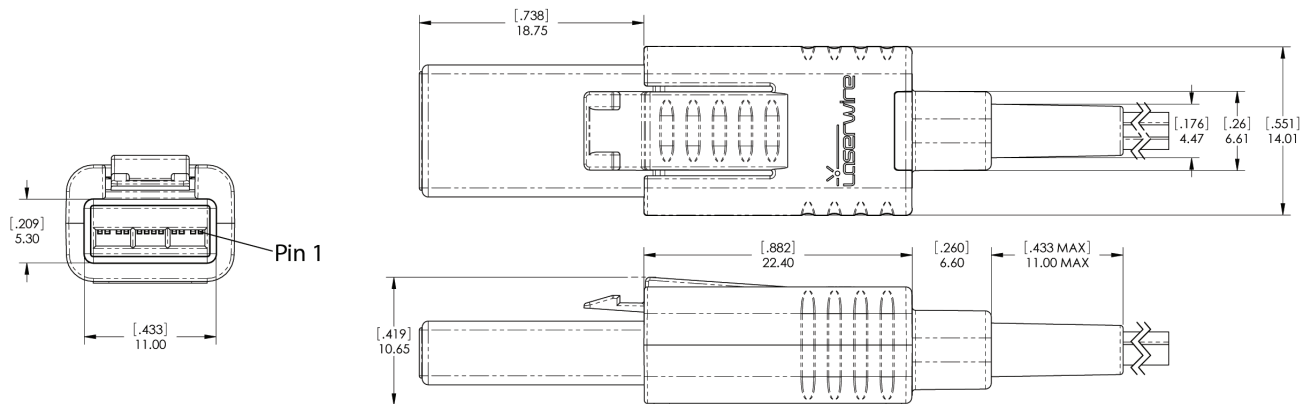
Laserwire™ is the next generation cable for low cost, high speed serial connectivity. Laserwire utilizes fiber optic technology for the transmission of data while reducing the weight, density and power consumption of copper interconnects.

KEY ADVANTAGES OVER COPPER

- ▶ Lowest weight for high port count architectures
- ▶ Small bend radius for easy installations
- ▶ Low power consumption enabling a greener datacenter
- ▶ Small Laserwire Jack enables compact host board designs
- ▶ Low cost solution for datacenters
- ▶ Integrated status LED for monitoring purposes
- ▶ First 'Plug and Play' solution for serial 10Gbps Interconnects



Laserwire™ ACTIVE OPTICAL CABLE



PIN DESCRIPTION

| Pin | Symbol | Name/Description |
|-----|---------|--|
| 1 | VEE | Ground |
| 2 | TX- | Transmitter Inverted DATA in |
| 3 | TX+ | Transmitter Non-Inverted DATA in |
| 4 | VEE | Ground |
| 5 | VCC | Power Supply (+3.3V ± 5%) |
| 6 | F | Fault signal |
| 7 | CAB-ABS | Cable absent, connected to Vee within cable plug |
| 8 | Res | NC |
| 9 | VEE | Ground |
| 10 | RX+ | Receiver Non-inverted DATA out |
| 11 | RX- | Receiver Inverted DATA out |
| 12 | VEE | Ground |



LASERWIRE JACK

INSERTION, EXTRACTION AND RETENTION FORCES

| | Min | Max | Units | Notes |
|---|------|-----|------------|------------------|
| Cable Tensile Load (Short Term) | | TBD | Newtons | |
| Cable Tensile Load (Long Term) | | 93 | Newtons | |
| Crush Resistance | | | Newtons/mm | FOTP-41 |
| Impact Resistance | 0.74 | | Newton*m | FOTP-25 |
| Flexing | 300 | | Cycles | FOTP-104 |
| Twist Bend | | | | Exceeds FOTP-85 |
| Cable to Host Connector Retention Force | 90 | 170 | Newtons | Same as SFP/SFP+ |
| Host Connector Retention | 180 | | Newtons | Same as SFP/SFP+ |



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PRODUCT SELECTION

| FCBP110LD1Lxx | | |
|---------------|----|----------------|
| xx | 03 | 3 meter cable |
| | 05 | 5 meter cable |
| | 10 | 10 meter cable |
| | 30 | 30 meter cable |