

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

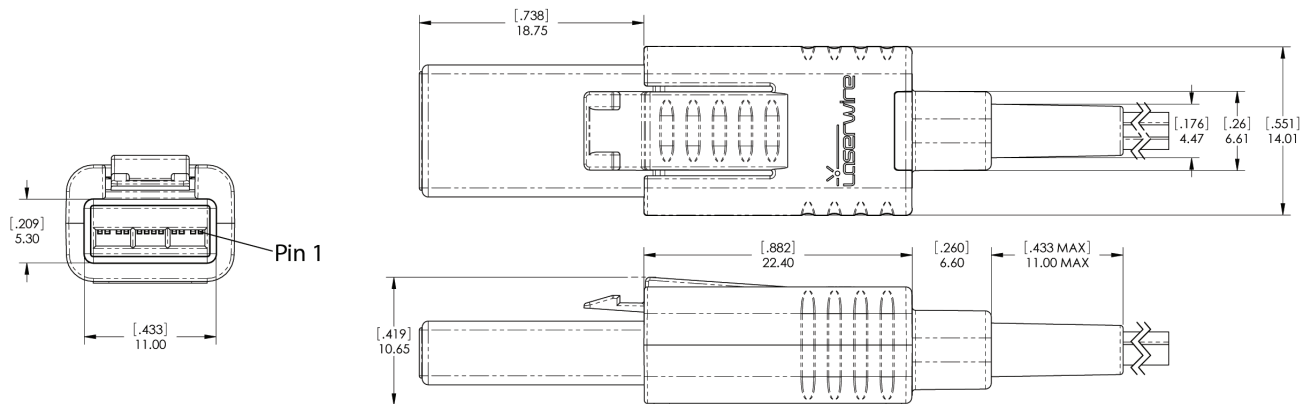
Laserwire™ is the next generation cable for low cost, high speed serial connectivity. Laserwire utilizes fiber optic technology for the transmission of data while reducing the weight, density and power consumption of copper interconnects.

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

Mouser Electronics

Authorized Distributor

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