

FCI High Speed Cable Assemblies



EYEMAX® 4X HIGH-SPEED SERIAL I/O LINKS

RoHS Compliant This page of product is compliant.

For Infiniband®, 10G Fibre Channel, 10G Base-CX4 Ethernet (IEEE 802.3ak), and SFF-8470 Multilane SATA/SAS.

The EyeMax® 4X cable assembly, right-angle PCB receptacle, and plug kit offering from FCI enables high-speed, serial copper links for industry-standard applications. The EyeMax® link solution is designed to provide a continuous flow of serial data and eliminate data traffic congestion, which can occur among hardware devices that use a parallel bus structure.

Features:

- Robust pull-to-release latching or thumbscrew cable-lock hardware
- High-speed data rates:
 - Infiniband SDR: 2.5Gb/s per channel
 - Infiniband DDR: 5.0Gb/s per channel
 - Ethernet CX4: 3.125Gb/s per channel
- Die-cast shells for enhanced EMI shielding performance
- RoHS compliant per FCI documentation
- Blind-mate keying features standardized
- Custom paddle-card design for improved crosstalk performance
- Standardized 24 to 30AWG cable offering
- Eight fully-shielded, differential pairs
- Impedance-controlled paddle card with capability to upgrade for passive equalization



RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	FCI Part No.	Fig.	Cable Length: m (ft)	Wire Gauge	Price Each	
					1	5
Pull Latch						
649-107290-R0100CULF	10007290-R0100CULF	A	1 (3.28)	30AWG	99.02	86.86
649-107290-R0300CULF	10007290-R0300CULF	A	3 (9.84)	30AWG	105.02	92.13
649-107290-M0300CULF	10007290-M0300CULF	A	3 (9.84)	24AWG	139.53	122.41
649-107290-N0500CULF	10007290-N0500CULF	A	5 (16.4)	26AWG	140.68	123.40
649-107290-N0100CULF	10007290-N0100CULF	A	10 (32.80)	26AWG	234.09	205.34
Thumb Screw						
649-118960-R0100AULF	10018960-R0100AULF	B	1 (3.28)	30AWG	99.85	87.58
649-118960-R0300AULF	10018960-R0300AULF	B	3 (9.84)	30AWG	105.67	92.68
649-118960-M0300AULF	10018960-M0300AULF	B	3 (9.84)	24AWG	140.34	123.11
649-118960-N0500AULF	10018960-N0500AULF	B	5 (16.4)	26AWG	141.36	124.00
649-118960-N0100AULF	10018960-N0100AULF	B	10 (32.80)	26AWG	234.78	205.94

DENSISHIELD™ I/O SYSTEM

High-Speed Cable Assemblies and Connectors

FCI's DensiShield™ I/O system is designed to support the transmission of high-speed, serial differential signals, while taking customers equipment packaging requirements into consideration. Combining high density, mechanical robustness, and ease of PCB assembly with excellent shielding and signal integrity performance means that system designers no longer have to compromise. The DensiShield™ connector is built around a wafer system employing a differential pair construction where each pair is shielded from the adjacent pair and the adjacent wafer. The 8-pair connector is ideally suited for 4 bi-directional channels working at >2.5Gb/s, similar to Infiniband or XAUI links, but can also perform at much higher data rates.

Features:

- 8-pair connectors can be mounted side by side on 12.5mm pitch enabling multiple I/O ports along a card edge
- Robust strain relief with short cable exit enables close spacing between chassis panel and cabinet door or wall
- Low vertical profile allows use in systems having 15mm pitch card slot spacing
- Crimp ferrule system reliably terminates EMC shield of cable to connector covers
- Signal ground is isolated from EMC ground
- RoHS compliant per FCI documentation
- Contacts: Copper alloy
- Insulators: High-temperature thermoplastic
- Shells: Die-cast zinc and copper alloy strip, tin plated
- Ground springs: Stainless steel
- Lock screw: Stainless steel
- Cable: LSZH (Low Smoke Zero Halogen) fully-shielded, 8 differential pairs



RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	FCI Part No.	Fig.	Cable Length: m (ft)	Wire Gauge	Price Each	
					1	5
649-154999-N0100AULF	10054999-N0100AULF	C	1 (3.28)	26AWG	98.23	86.17
649-154999-N0300AULF	10054999-N0300AULF	C	3 (9.84)	26AWG	145.48	127.60
649-154999-N0500AULF	10054999-N0500AULF	C	5 (16.4)	26AWG	200.04	175.48

PCB Mounted Header

For quantities of 25 and up, call for quote.

MOUSER STOCK NO.	FCI Part No.	Fig.	Price Each		
			1	5	10
649-1044471-121110LF	10044471-121110LF	D	13.19	12.44	11.58

MINI SAS/SATA EXTERNAL CABLE ASSEMBLIES

For High-Speed Serial Mini SAS or Mini SATA 4x Links

FCI's 26-position Mini SAS/SATA External cable assemblies enable Mini SAS (Serial Attached SCSI) or Mini SATA (SerialATA) 4x external cable links. These cable assemblies address the need for high-speed serial interfaces that are capable of meeting today's transmission speed requirements of 1.5Gb/s per channel to 6.0Gb/s per channel while possessing the capability to address higher bandwidth demands of 10 Gb/s per channel in future applications.

Features:

- Ruggedized 26-position cabling interconnect system is SFF-8088 (shielded—external) and SFF-8086 compatible
- Available options support Mini SAS and Mini SATA 4x external cable requirements
- Paddle card design is optimized for signal integrity and mechanical performance
- Low profile pull-to-release latching system provides secure connection and allows stacking
- RoHS compliant per FCI documentation
- Shells: Die-cast zinc - tin plated
- PCB: FR-4 laminate with gold plated contact pads
- Cable: 8 individually shielded differential pair cable with fully braided EMI shield & low smoke, zero halogen jacket
- Latch: Stainless steel
- Latch pull: Nylon resin



RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	FCI Part No.	Fig.	Cable Length: m (ft)	Wire Gauge	Price Each	
					1	5
649-184749-P010003LF	10084749-P010003LF	E	1 (3.28)	28AWG	73.66	64.61
649-184749-P030003LF	10084749-P030003LF	E	3 (9.84)	28AWG	121.96	106.98
649-184749-N050003LF	10084749-N050003LF	E	5 (16.4)	28AWG	186.82	163.88

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