

FCI EyeMax® - InfiniBand™ 4X Cable Assemblies



The EyeMax 4X cable assemblies provide 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. FCI's EyeMax cable assembly technology enables high-speed data transfers at >2.5Gb/s per link/channel for cable lengths up to 10 meters. In addition, the EyeMax technology offers <4% cross talk performance.

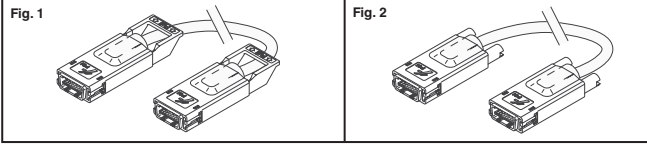
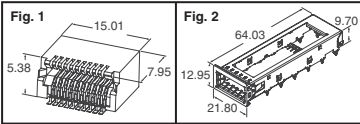


Fig.	Description	Digi-Key Part No.	Price Each		FCI Part No.
			1	25	
26 AWG					
1	Latch Style, .5M Cable	609-3183-ND	72.75	58.88	10007290-N0050CULF
	Latch Style, 1M Cable	609-3109-ND	69.56	56.30	10007290-N0100CULF
	Latch Style, 2M Cable	609-3110-ND	81.35	65.83	10007290-N0200CULF
	Latch Style, 3M Cable	609-3111-ND	91.52	75.37	10007290-N0300CULF
2	Thumbscrew Style, .5M Cable	609-3188-ND	76.39	61.83	10018960-N0050AULF
	Thumbscrew Style, 1M Cable	609-3112-ND	73.04	59.11	10018960-N0100AULF
	Thumbscrew Style, 2M Cable	609-3113-ND	85.41	69.13	10018960-N0200AULF
	Thumbscrew Style, 3M Cable	609-3114-ND	96.09	79.14	10018960-N0300AULF
28 AWG					
1	Latch Style, .5M Cable	609-3184-ND	69.11	55.93	10007290-P0050CULF
	Latch Style, 1M Cable	609-3185-ND	80.56	65.20	10007290-P0100CULF
	Latch Style, 2M Cable	609-3186-ND	92.59	76.26	10007290-P0200CULF
	Latch Style, 3M Cable	609-3187-ND	106.01	85.75	10007290-P0300CULF
2	Thumbscrew Style, .5M Cable	609-3189-ND	72.56	58.72	10018960-P0050AULF
	Thumbscrew Style, 1M Cable	609-3190-ND	84.59	68.46	10018960-P0100AULF
	Thumbscrew Style, 2M Cable	609-3191-ND	97.22	80.07	10018960-P0200AULF
	Thumbscrew Style, 3M Cable	609-3192-ND	108.04	90.04	10018960-P0300AULF



molex Z-Axis Pluggable Host Connectors



The host connector enables the use of gigabit-speed hot-pluggable transceiver modules for horizontal front-panel access. The connector is typically used in conjunction with an XFP cage, flange and EMI gasket assembly, along with a heat sink and attachment clip, to attach an optical LC duplex or electrical XFP transceiver module to the host board. **Features:** • Card entry slot accepts 1.00mm (.039") thick integrated circuit board • Alignment posts provide stability for PCB placement • Coplanarity of solder terminals within 0.10mm (.004") for processing reliability • SMT receptacle provides option for placement on either side of PCB • Circuits: 30 • Pitch: 0.85mm (.031") • PCB Mounting: Surface Mount • UL File No.: E29179 • CSA File No.: 1310648 **Electrical:** • Voltage: 30V • Current: 0.5A **Physical:** • Housing: Black high temperature thermoplastic, UL94V-0 • Plating: Contact Area: Gold over Nickel; Solder Area: Tin over Nickel

Fig.	Plating	No. of Circuits	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing	Molex Part No.
				1	10	100		480	
Receptacles, Right Angle, SMT									
1	25µ" Au 30µ" Au	30	WM1698CT-ND	5.90	5.41	4.92	WM1698TR-ND	1650.05	74441-0007
			WM1642CT-ND	4.77	4.49	4.10	WM1642TR-ND	1543.56	74441-0017

Fig.	Description	Digi-Key Part No.	Price Each			Molex Part No.
			1	10	100	
XFP Cage for Small Frame Solder-Tail Post						
2	Without Heatsink or Clip	WM1638-ND	16.54	15.60	14.18	74736-0220
	With PCI Heatsink	WM1639-ND	31.09	29.32	26.66	74736-0221
	With SAN Heatsink	WM1640-ND	31.09	29.32	26.66	74736-0222
	With Tall Heatsink	WM1641-ND	31.09	29.32	26.66	74736-0223
	Heat Sink Clip for XFP Cage	WM1699-ND	1.41	1.26	1.10	74736-0230

HSSDC Connectors and Assemblies

Features: Standard High Speed Serial Data 2 connector for InfiniBand™ and Fibre Channel SFF Copper meets electrical and mechanical requirements set forth by these protocols. Positive locking interface to prevent accidental disengagement, with keying options to mating plug connector for polarization and to eliminate mismatching. Six chassis ground locations, six PCB ground/retention contacts, and four plug-to-receptacle grounding points to minimize EMI /RFI.

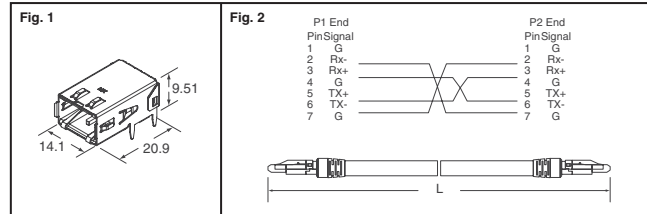


Fig.	Circuits	Dim. L Meters	Digi-Key Part No.	Price Each			Molex Part No.
				1	25	100	
Receptacle, Right Angle Shielded InfiniBand Keyed							
1	7	—	WM5976-ND	8.55	8.05	7.81	74703-0007
			WM5977-ND	8.27	7.79	7.55	74703-0107
Copper Cable Assemblies, Plug-to-Plug, Unequalized, 3.0m							
2	7	1.0	WM2497-ND	31.49	29.69	28.79	73939-1002
		3.0	WM2498-ND	48.42	45.66	44.28	73939-1004

InfiniBand™



Features: • Die cast frame with unitary latch posts and screw attach to PCB. Provides the best available strain relief of cable to socket and isolating cable leads from SMT tails. **Applications:** • Telecommunication Equipment • Data Communication Equipment • Internet Working Equipment • Storage Area Network (SAN) Switches • Redundant Array of Inexpensive Disks (RAID) Devices • Servers • Computers • Storage Devices

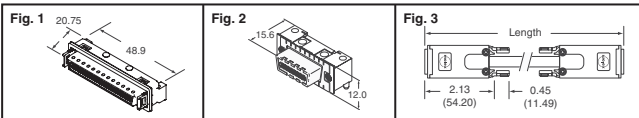
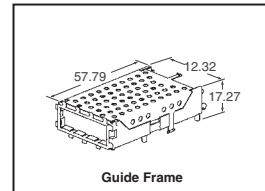


Fig.	No. of Lanes	Pitch	Cable Length Meters	Digi-Key Part No.	Price Each				Molex Part No.
					1	25	50	100	
1	12	0.5mm	—	WM7310-ND	17.44	15.95	15.45	14.95	91525-1210
				WM1130-ND	9.73	8.90	8.63	8.35	91803-0415
2	4	0.5mm	—	WM7318-ND	9.70	8.87	8.60	8.32	91804-0411
				WM2067-ND	102.64	93.85	90.91	87.98	74506-3001
3	4	0.5mm	1.0	WM2068-ND	108.59	99.29	96.18	93.08	74506-3002
			3.0	WM2069-ND	132.32	120.98	117.20	113.42	74506-3003

Gigabit Interface Converter (GBIC)

Features and Benefits: • Rugged blind-mate guide ears with +/-2.00mm (0.079") misalignment tolerance • Shielded for improved EMI protection with ESD ground contacts • Staggered "hot-plug" first-mate, last-break contacts on 1.27mm (.050") pitch spacing



Electrical: • Voltage: 30V • Current: 1.0A • Contact Resistance: 20mΩ • Dielectric Withstanding Voltage: 500V • Insulation Resistance: 1000MΩ

GBIC Guide Frame: • All metal construction • Plated die cast body • EMI gasket provides 360 degrees of contact to the chassis • Compatible with the industry standard footprint

Description	Digi-Key Part No.	Price Each			Molex Part No.
		1	25	50	
Guide Frame for GBIC	WM1631-ND	9.67	8.85	8.57	73847-0001-TR12
Adapter without Serial ID, Cooper GBIC to DB9 Female	WM1632-ND	53.95	49.33	47.79	73086-0001-TR12

◆ RoHS Compliant

Ultra+™ VHDCI Connectors and Assemblies

High Density Cable Interconnect, which has been defined as the next generation of physical SCSI (Small Computer Systems Interface) interfaces. VHDCI offers a reduced size, increased robustness, improved electrical performance, and higher density versus the previous SCSI connectors. **Features:** • Conforms to EIA/SFF specifications to ensure intermateability with conforming products • Shield design can dominate reflow solder ground connection • UL File No.: E29179 • CSA File No.:

LR 19980-520 **Electrical:** • Voltage: 30V • Current: .5A • Contact Resistance: 50mΩ maximum • Dielectric Withstanding Voltage: 250V • Insulation Resistance: 500MΩ minimum **Mechanical:** • Mating Force: .54N (55g) • Unmating Force: .15N (15g) • Durability: 500 cycles maximum **Physical:** • Housing: Black high temperature thermoplastic, UL94V-0 • Contact: Phosphor Bronze • Plating: Gold Flash over palladium nickel • Operating Temperature: -55°C - 85°C

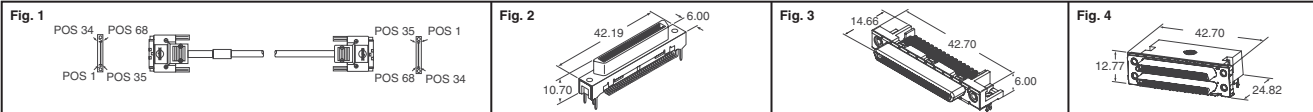


Fig.	Description	Digi-Key Part No.	Price Each			Molex Part No.
			1	10	100	
1	Ultra+ VHDCI to Ultra+ VHDCI Cable Assembly	WM7300-ND	35.03	30.66	23.19	79918-0080
2	Ultra+ VHDCI Receptacle	WM7304-ND	15.93	15.03	13.66	73776-0201
3	Ultra+ VHDCI Receptacle with Screw Locks	WM7302-ND	11.24	10.60	9.64	71430-0006
	Ultra+ VHDCI Receptacle with Enhanced Shield	WM7303-ND	9.77	9.22	8.38	71430-0008
	Ultra+ VHDCI Receptacle with Enhanced Shield	WM7320-ND	9.77	9.22	8.38	71430-0004

Fig.	Description	Digi-Key Part No.	Price Each			Molex Part No.
			1	10	100	
3	Ultra+ VHDCI Receptacle	WM7321-ND	9.77	9.22	8.38	71430-0268
4	Ultra+ VHDCI Dual Stacked Receptacle	WM7305-ND	25.40	23.95	21.78	74337-0051
	Ultra+ VHDCI Dual Stacked Receptacle	WM7322-ND	28.64	26.95	24.60	74337-0015
—	VHDCI Female Jack Screw	WM7323-ND	.54	.51	.47	71433-0002

◆ RoHS Compliant † Includes Jack Screw ‡ Includes Cover

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Free shipping on orders over £50! All prices are in British pound sterling and include duties.

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