ORTRONICS[®]

THE INTEGRATED HILOC SYSTEM. CONSERVE LOSS. ADD CONNECTIONS.







designed to be better.™

Hiloc: Harness in Lieu Of Cassette



The HiLOC harness is used as the interface from the trunk cable to the switch or other device, taking the place of the cassette.

No other media can provide more bandwidth in the data center for your high performance networks than optical fiber. Even so, the data center is being squeezed to produce more with less. System loss budgets are growing increasingly tighter and designing a fiber optic system has become a balancing act, with fiber loss having the greatest impact on the overall system performance. In order to help conserve this fiber loss, Legrand has created an alternative to the traditional MTP®-to-LC cassette: the Harness in Lieu Of Cassette, or the HiLOC[™] system. The Ortronics® HiLOC system harness is used as the interface from the trunk cable to the switch or other device, taking the place of the cassette.



THE HILOC SYSTEM

Traditionally, a trunk cable is plugged into an MTP®-to-LC cassette, and then LC-to-LC patch cords are connected from the cassette to the device. Installing an MTP-to-LC HiLOC[™] harness, instead of a cassette, allows a connector pair to be eliminated from the link. Not only does this conserve .75dB of 'loss', but eliminating this connector pair allows for an additional connection point to be used elsewhere in the system. This is the quintessential production of 'more with less'.

Using the HiLOC solution to eliminate a cassette and the accompanying fiber cords means that space is saved: A single 12-fiber 3mm microdistribution cable takes much less space (1/6th the space) than six separate patch cords. This creates a neater and cleaner installation, while saving space and maximizing air flow in the pathway.

HiLOC is a completely integrated system. It includes a configurable harness with a physical support mounting element, a mounting panel and a 2U enclosure designed to maximize the harness features.

A HiLOC harness directly interconnects MPO cassettes, panels or backbone assemblies with active equipment. This saves rack space, in addition to allowing better fiber management.

PART NUMBER	DESCRIPTION
OR-60401144	HiLOC multi-use panel, hold 4 HiLOC shells
OR-HC02U-P	Rack mount 2U enclosure, holds 24 HiLOC shells
OR-HDFP-MPA72LA	HD panel, 6 MPO aqua adapters, feed through multimode, Type A
OR-HDFP-MPA72CA	HD panel, 6 MPO green adapters, feed through, single mode, Type A



A twelve fiber cassette is attached at each end with LC patch cords to support six channels. An optional 24-fiber cassette can also be used.



For applications with high-density core switches where patching is not needed, one of the cassettes and its associated LC patch cords are replaced with a 12-fiber harness and an MPO adapter panel.





The HiLOC[™] pre-terminated harness is customizable and nearly infinitely configurable. It can be created to exactly

suit your installation. Customizable features include:

- The cable length from the MTP[®] connector to the HiLOC furcation shell
- The length of the breakout tube from the HiLOC shell to the LC connector
- The breakout legs can either be staggered or not to match the pitch of the switch port locations
- The MTP connector can be fitted with or without pins (male or female)
- The harness jacket can either be plenum-rated (OFNP) or a low smoke, zero halogen (LSZH) material

The harness is designed for strength and durability. The cable assembly is constructed with 3mm round, high-density distribution cable on the MTP side and 3 mm aramid fiber strengthened breakout tubes on the LC side.

HiLOC SHELL



One of the remarkable features about the HiLOC system is the breakout element – the HiLOC furcation shell. It organizes

and protects the cable as it transitions from the (typically) 12-fiber MTP cable to the duplex breakout legs. The HiLOC shell provides a physical support connector for the harness cables, relieving strain on the cables. The furcation shell is constructed with a foot so it can be toollessly mounted to a variety of Legrand cable management elements. It has been designed to integrate into other connectivity equipment by locking into the HiLOC Multi-Use Panel.

	Fiber Count & Polarity	Fiber Type	Jacket	Stagger Definition	Connector B
3	Т	F	М	Ν	А
	E = 8F, A-B Polarity	C = Single mode (OS2)	M = OFNP	A = 0.03m Duplex Stagger	A = LC/PC Duplex
	G = 8F, A-A Polarity	F = LOMF (OM3)	N = LSZH	B = Custom	B = SC/PC Clipped Duplex
	T = 12F, A-B Polarity	H = LOMF (OM4)		N = No Stagger	I = LC/APC Duplex
	U = 12F, A-A Polarity				J = SC/APC Clipped Duplex
					N = Reconfigurable LC/PC
					P = Reconfigurable LC/APC
					Q = Reconfigurable LC/UPC
					U = LC/UPC Duplex
					V = SC/UPC Clipped Duplex

HARNESS PART NUMBER FORMULA EXAMPLE PART NUMBER: [H3TFMNAZ7HYZ02F]



HILOC MULTI-USE PANEL



An additional element of the HiLOC[™] system is the Multi-Use Panel. The panel has female channels that are

designed to accept up to 4 HiLOC shells, providing strain relief for each harness. The Multi-Use Panel is designed to be an independent cable management element and can be locked into place onto a Mighty Mo® 10 cable management cage or in any Cablofil[®] cable tray product. It can also be attached through 4 pre-drilled holes. This array of flexibility creates the opportunity for a zero rack unit

harness mounting solution.



ENCLOSURE The HiLOC system allows you to manage the excess cable slack in an

The Ortronics[®] 2 Rack Unit Fiber Enclosure combines all of the standard features of our industry-leading FC-series of fiber enclosures with

the space to lock in 24 HiLOC shells. The 2U enclosure has a trav lock for security and a sliding drawer for easier access. There is ample room in the front of the enclosure to manage the MPO-to-harness cable slack, as well space provided in the rear of the enclosure to secure the backbone cables and routing cable slack.

The HiLOC solution creates a neater and cleaner installation, while saving space and maximizing air flow in the pathway.

END B			END A			
	Connector B	Length 1	Connector A	Connector A	Length 2	
	Z	7H	Y	Z	02F	
	Secure keying Call for information	Connector 1 to Breakout Junction	X = MTP-F APC	Secure keying Call for information	MTP (Connector 2) to Breakout Junction	
	Z = No keying	XM = X meters	Y = MTP-M APC	Z = No keying	XXM = XX meters	
		XF = X feet	0 = MTP-F (PC)		XXF = XX feet	
		XS = ½ meter interval	P = MTP-M (PC)		XXS = ½ meter interval	
Duplex		$XH = \frac{1}{2}$ foot interval			XXH = ½ foot interval	
Duplex		*X = length			*XX = length	
Duplex						



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