

Uniboot Polarity Switchable Patch Cords

Application

Opticonx Uniboot Polarity Switchable Patch Cords feature high density, small form factor LC connectors mated to 2.0 mm round duplex cable. They are used to connect switches or network devices in fiber networks directly or interconnect structured cabling systems in a fiber network. Polarity changes can be made in the field quickly, without the use of tools, to the correct fiber mapping polarity.



Specifications

Multimode patch cords shall have an optical return loss of -25dB or better per mated pair, and Single Mode shall have an optical return loss of -55 dB or better for UPC polish. Insertion loss shall not exceed 0.15 dB per mated pair for multimode Xtreme Low Loss(XL) and 0.25 for Low Loss(LL) Performance. Insertion loss for Single Mode shall not exceed 0.25 dB for Xtreme Low Loss(XL) and 0.35 for Low Loss(LL) performance. All patch cords shall be compliant with ANSI/TIA-568-C.3.

Features

- True Uniboot (one boot) design
- Easily switch polarity (A/B, A/A) with out tools or damage to fiber
- 2.0 mini round cable design
- Flexible plenum rated jacket for all plenum and riser applications
- Bend insensitive fiber on all Multimode fibers, optional for Single Mode fibers
- Fiber options: OM3, OM4, and OS2
- 100% optical testing and reporting
- Xtreme Low Loss (XL) and Low Loss (LL) performance options
- Custom lengths, jacket colors and labeling options



Standards Compliance

Designed to meet the requirements of ANSI/TIA-568-c.3

Country of Origin

United States of America





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TRANSMISSION SPECIFICATIONS											
Fiber Performance											
Fiber Type	Maximum Attenuation (dB/km)				Bandwidth (MHz*km)		Transmission Distance (meters)				
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	100Mb	1GbE	10GbE	40GbE	100GbE
Single Mode (OS2)	N/A	N/A	0.4	0.4	N/A	N/A	5,000 @ 1310 nm		5,000 @ 1310 nm	N/A	N/A
50/125 LOMF (OM3)	2.8	1.0	N/A	N/A	2,000	500	300/2,000 @ 850/130nm	1,000/600 @ 850/1300nm	300/300 @ 850/1300nm	100 @ 850 nm	100 @ 850nm
50/125 LOMF (OM4)	2.8	1.0	N/A	N/A	4,700	500	300/2,000 @ 850/130nm	1,040/600 @ 850/1300nm	550/300 @ 850/1300nm	150 @ 850nm	150 @ 850 nm

PHYSICAL SPECIFICATIONS									
Cable Performance									
Fiber Type	Fiber Count	Nominal Diameter	Weight	Pull Strength		Bend Radius Inches (CM)		Temperature Range	
		Inches (mm)	LBS/1000ft (kg/km)	LBS/1000FT (kg/km)		Installation	Long Term	Operating/ Installation	Storage
Mini Round	2	0.08 (2.0)	5 (7)	22 (100)	7 (30)	1.2 (3.0)	0.80 (2.2)	0 ⁰ C to +70 ⁰ C	-40 ⁰ C to +75 ⁰ C

CONNECTER SPECIFICATIONS				
	Multimode		Single Mode	
	Xtreme Low Loss (XL)	Low Loss (LL)	Xtreme Low Loss (XL)	Low Loss (LL)
Insertion Loss	0.15 dB Maximum		0.25 dB Maximum	
Return Loss	> - 25 dB Minimum		> -55 dB UPC/ > -65 dB APC	
Durability	500 Matings		500 Matings	
Repeatability	< 0.20 dB		< 0.20 dB	
Operating Environment	- 40 ⁰ C to 75 ⁰ C		- 40 ⁰ C to 75 ⁰ C	
Cable Retention	20 lbs / 88 Newtons		20 lbs / 88 Newtons	
Rohs	Rohs Compliant		Rohs Compliant	

ORDERING INFORMATION		
Description	Xtreme Low Loss Performance	Low Loss Performance
OM3, 2-fiber, Plenum Rated, A/B Polarity, Bend Insensitive Fiber, Aqua Jacket, Aqua Connector	P3XJCB14XM LLL*	P3XJCB14LM LLL*
OM4, 2-fiber, Plenum Rated, A/B Polarity Bend Insensitive Fiber, Aqua Jacket, Aqua Connector	P3XJDB14XM LLL*	P3XJDB14LM LLL*
OS2, 2-fiber, Plenum Rated, A/B Polarity, Yellow Jacket, Blue Connector (LC-UPC)	P3XJAA15XM LLL*	P3XJAA15LM LLL*
OS2, 2-fiber, Plenum Rated, A/B Polarity Bend Insensitive Fiber, Yellow Jacket, Blue Connector, (LC-UPC)	P3XJBA15XM LLL*	P3XJBA15LM LLL*
OS2, 2-fiber, Plenum Rated, A/B Polarity, Yellow Jacket, Green Connector, (LC-APC)	P3XJAA31XM LLL*	P3XJAA31LM LLL*
OS2, 2-fiber, Plenum Rated, A/B Polarity Bend Insensitive Fiber, Yellow Jacket, Green Connector, (LC-APC)	P3XJBA31XM LLL*	P3XJBA31LM LLL*

* Replace LLL with length in meters. Standard stock lengths are 1, 2, 3, 5, 7, 10 meters.