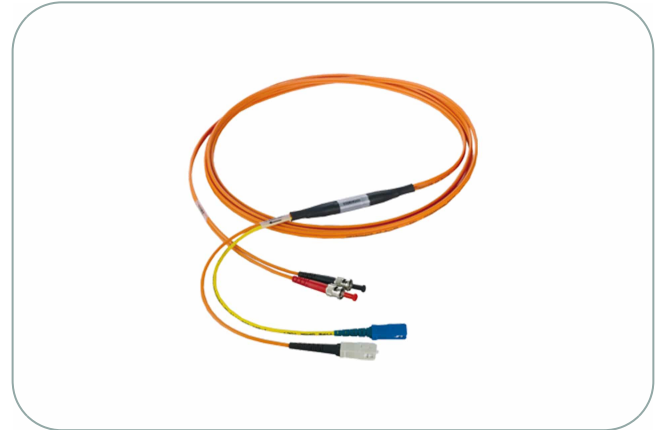


Mode Conditioning Patch Cords

Our Mode Conditioning Patchcords provide an effective launch platform for 1310 nm Laser switches being used in multimode cabling systems. Mode conditioned patch cords can allow a much higher operational bandwidth by precisely aligning a single mode termination at the laser transmitter and providing an off-center launch into the multimode fiber core. This is essential for networks using legacy 62.5/125 and 50/125 multimode optical fiber and may be specified for current multimode networks depending upon the system requirements.



Features

- Increased transmission bandwidth by as much as 4 times
- Reduced modal noise
- Low insertion loss (< 1dB)
- Easy installation
- Various connector options

Specifications

DESCRIPTION	62.5/125 μm MMF	50/125 μm MMF
Operating wavelength	1310 nm	
Maximum insertion loss	0.5 dB	
Coupled power ratio (CPR)	28 to 40 dB	12 to 20 dB
Back reflection S/M channel	30 dB	
Back reflection M/M channel	20 dB	
Connector finish	PC or APC	
Ferrule radius of curvature	10 to 25 mm	
Fiber height	-50 to 50 nm	
Maximum angular offset	1°	
Sheath color	Orange (yellow for SM leg)	Orange (yellow for SM leg)

DESCRIPTION	
Temperature Cycling	(IEC 61300-2-22) -40 to +75 °C, 40 cycles =0.2 dB Change
Damp Heat	(IEC 61300-2-19) 60°C at 95 % RH, 96 hours =0. 2dB Change
Vibration (Mated Pair)	(IEC 61300-2-1) 10-55 Hz, 1.5 mm Peak to Peak =0.3 dB Change
Mating Durability	(IEC 61300-2-2) 1000 mating cycles Clean every 25 < 0.2 dB Change
Operating Temperature	(IEC 61300-2-22) -20 °C to +60 °C

Patch cord Specification

SPECIFICATION	
Connectors available	Types: FC, ST, SC, LC
Product Packaging	Each patch cord is packaged individually and individually identified for traceability, test certification is supplied for each assembly.
Length	2000 mm ± 10 mm Other lengths available to order

Ordering Information

Code	Fibre Type	Code	End A	End B	Code	Unit	Length
P	1 OM1	AQ2L2E	A LC	A LC	-0032- Mode Con end A	M Meters	1 1
	2 OM2		D SC	D SC	-0033- Mode Con end B	F Feet	2 2
			H FC	H FC			3 3
			K ST	K ST			5 5
							10 10
							XX Specify

Legacy ordering information

Connector End A		Connector End B		Mode		Gigabit	Cable Length	
FC	FC	FC	FC	62	OM1		1	1 meter
SC	SC	SC	SC	50	OM2		2	2 meter
LC	LC	LC	LC				3	3 meter
ST	ST	ST	ST				5	5 meter
							10	10 meter
							xx	Specify

Example Part Number

FC	SC	50	GIGABIT	2
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This part number has created a 2 meter FC to SC OM2 mode conditioning patch cord.