1、Description

Mode-conditioning patch cords are designed for longwave(1310nm) Gigabit Ethernet applications over multimode fiber. They consist an offset connection of a SM fiber to a MM fiber. There are two MM fibers on one end and one MM and one SM fiber on the other. This patch cords is required with -LX or longwave Gigabit Ethernet transceivers that use both SM and MM fibers. When launching into a MM fiber, the transceivers can generate multiple signals that cause Differential Mode Delay (DMD) which can severely limit transmission distances. A mode conditioning patch cord removes these multiple signals, eliminating problems at the receiver end.

2、Features

- Low insertion loss，High return loss，Stricter than industry standards
- Good exchange ability and good durability，Stable optical properties
- Permanent displacement seal
- Other connection mode available according customer requirements
- Screen different value delay effection
- Standard connector，Various connector option: LC、SC、FC、ST etc.
- Compliant with IEC61754，GR-326，TIA/EIA 568 standard

3、Specification

Fiber Type	SM（9/125um）		MM（50/125um、62.5/125um）
Polish	UPC	APC	UPC
Insertion Loss	Light source direction	Testing Wavelength	Data
	A→B	850nm、1300nm	≤0.20dB
	B→A	850nm、1300nm	≤0.20dB
	C→D	850nm、1300nm	≤15.0dB（50/125） ≤18.0dB（62.5/125）
	C→D	1310nm、1550nm	≤2.1dB（50/125） ≤2.6dB（62.5/125）
	D→C	850nm、1300nm	≤0.20dB
Return Loss	SM/UPC≥50dB，APC≥60dB；MM/UPC≥20dB		
3D	Radius of Curvature :10-25mm(PC/UPC) ， 5-12mm(APC) Apex offset : 0-50um High fiber : ±100 nm Angle：8±0.2°(APC)		
Repeatability	1000 times typical change value ≤ 0.20dB		
Interchangeability	≤0.20dB		
Jacket Material(optional)	LSZH、OFNP、OFNR、PVC		
Fiber Moder(optional)	G652D, G657A, G657B, OM1, OM2, OM3, OM4		
Cable Diamete	2.0 / 3.0mm		
Operating Temperature	-20 ~ +70 ℃		
Storage Temperature	-40 ~ +85 ℃		

4、Application

- CATV，LANs，WANs
- Telecommunication networks
- Active device termination
- FTTx
- Building network access