

DATA SHEET

MODULETEK: MTP/MPO Patchcord Cables

MTP/MPO Patchcord Cables Overview

Designed as a single cable terminated with MTP/MPO connectors, the MTP/MPO patchcord cable is used for 40G/100G/200G/400G data center cabling. With highly integrated design and manufacturing capability, MODULETEK provides customized MTP/MPO patch cables which are 100% tested to deliver optimal performance and reliability.

Product Features

- Available polarity: Type A, Type B, Type C
- Ultra low insertion loss
- Number of available fiber cores: 8, 12, 24
- MTP/MPO connector type: male, female, male and female
- Available fiber types: SM (G652D, G657A1, G657A2), MM (OM3, OM4)
- Available cable jacket types: OFNR, LSZH, OFNP
- Multi-fiber connector type: MTP, MPO, APC or PC polishing type
- Cable length: 1 to 999 meters
- Cable type is round, ribbon
- Improve and simplify fiber routing and reduce fiber management space

Applications

- Data Center Interconnect
- High-Density Cross Connect
- Backbone Installations
- Telecommunication Networks
- Broadband/CATV Networks
- Test Labs
- LAN/WAN

General Technical Specifications

Fiber Optic Performance

Item		Unit	Parameter			
Connector		–	SM(Standard)	SM(Elite/Low)	MM(Standard)	MM(Elite/Low)
Insertion Loss	Typical	dB	0.35	0.20	0.35	0.20
	Maximun	dB	0.75	0.35	0.60	0.35
Return Loss		dB	≥60 for APC (8 Angle Polish)		≥20 for PC	
		dB	≥50 for PC		–	
Male/Female		dB	Male: With Pins, Female: Without Pins			
Tensile Strength		dB	≤0.3(Max 66N)			
Vibration		dB	≤0.3(10-55Hz)			
Temperature Cycle		dB	≤0.3 (–40-75°C, 21Cycles)			

Geometric Parameter of Endface

名称	单位	参数	
		SM	MM
RX	mm	Min 2000	
RY	mm	Min 5	
Fiber Height	nm	1000-3500	
Max.Diff.Height All	nm	MAX: 500	
Max.Diff.Height Adj.	nm	MAX: 300	
X Axis Angle	°	–0.2-0.2	
Y Axis Angle	°	PC: –0.2-0.2 APC:7.8-8.2	–0.2-0.2
Core Dip	nm	N/A	–100-200

Ordering Information

MPO/APC – MPO/APC – F – A – 0 – 12 – Φ 3 – OM3 – LSZH – L – RJ

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Item	Unit	Parameter
① Connector Type 1#	–	MTP/APC, MTP/PC, MPO/APC, MPO/PC
② Connector Type 2#	–	MTP/APC, MTP/PC, MPO/APC, MPO/PC
③ Connector Type	–	M=Male, F=Female, H=Hybrid (Male to Female)
④ Polarity	–	A=Type-A (Straight), B=Type-B (Cross), C=Type-C (Pair Flip)
⑤ Insertion Loss Level	–	0=Standard, 1=Elite/Low Loss
⑥ Fiber Count	–	8, 12&24
⑦ Cable Diameter	mm	Φ 2, Φ 3, Φ 4
⑧ Fiber Mode	–	G652D, G657A1, G657A2, OM1, OM2, OM3, OM4
⑨ Cable Material	–	OFN, OFNR, OFNP, LSZH
⑩ Cable Length	M	L= 1, 2, 3, 4...
⑪ Cable Type	–	RJ:Jacket Ribbon Cable, RB:Bare Ribbon Cable, MIC: 250um mini round cable
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