

DATA SHEET

MODULETEK: MTP/MPO Harness Cables

MTP/MPO Harness Cables Overview

Cable assemblies for 40G (4x10G), 100G (2x50G or 4x25G), 120G (3x40G), 200G (2x100G or 4x50G or 8x25G) and 400G (2x200G or 4x100G or 8x50G) branch data center interconnects. It is fully configurable and offers a variety of cable and connector combinations including connector type, breakout configurations and jacket material.

Product Features

- Ultra low insertion loss
- Available fiber cores: 8, 12 and 24
- Available MTP/MPO connector types: male, female
- Available fiber types: SM (G652D, G657A1, G657A2), MM (OM3, OM4)
- Available cable jacket types: OFNR, LSZH, OFNP
- Fanout length is 0.5m, 1m, etc.
- Multi-fiber connector type, MTP, MPO, APC or PC polishing type
- Single fiber connector type, LC, SC, APC or UPC polishing type
- Overall cable length: 1 to 999 meters
- High density, Saving space

Applications

- Data Center Interconnect
- Backbone Installations
- Telecommunication Networks
- Broadband/CATV Networks
- 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, 21Cycle)			

Geometric Parameter of Endface

Item	Unit	Parameter	
		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 – LC – F – 0 – 12 – Φ 3 – OM3 – LSZH – L/L1 – 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, FC, SC, ST, MU, LC
③ Connector Type	–	M=Male, F=Female, H=Hybrid (Male to Female)
④ Insertion Loss Level	–	0=Standard, 1=Elite/Low Loss
⑤ Fiber Count	–	8, 12&24
⑥ Cable Diameter	mm	Φ 2, Φ 3, Φ 4
⑦ Fiber Mode	–	G652D, G657A1, G657A2, OM1, OM2, OM3, OM4
⑧ Cable Material	–	OFN, OFNR, OFNP, LSZH
⑨ Cable Length	M	L= 1, 2, 3, 4...
⑩ Pigtail Length	M	L1=0.5, 0.6, 1.0
⑪ Cable Type	–	RJ:Jacket Ribbon Cable, RB:Bare Ribbon Cable, MIC:250um mini round cable
For More Information: ModuleTek Limited Web: www.moduletek.com Email: sales@moduletek.com		