



MTP / MPO Backbone Cable

Description

The MTP/MPO backbone optical fiber cables are high-density and multi-core cables with various fiber counts up to 144 cores, which combine multiple sub-units into one cable to reduce the overall diameter of cable and the installation time, and optimize the space utilization of cabling while keeping the strength and toughness of cables. 12 fibers sub-unit and 24 fibers sub-unit are available to meet different MTP/MPO connection requirements.

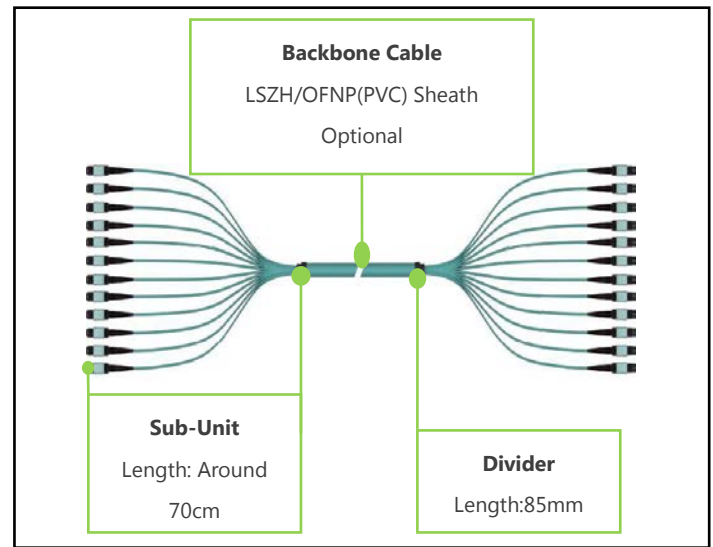
Features & Benefits

- 12-core and 24-core sub-units are available
- SM(G657A2), OM3, OM4, OM5 fibers available
- Small diameter for space saving and management
- 40G and 100G applications
- Customized fan-out cable length
- Bend-optimized fibers as standard optical fiber
- Faster than traditional fusion splicing
- Color coded sheath for easy identification of fiber types

Compliance & Standards

- ISO/IEC 24764
- ISO/IEC 11801-5
- ANSI/TIA-942-A/B
- EN 50173-5

Drawing



Applications

- Data Center
- Telecommunication Infrastructure



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Product Specifications

Structure	Indoor Non-metallic OFC-Aramid Yarn	
Cable Diameter	Sub-unit	12 Fibers 2.8mm
		24 Fibers 3.0mm
	Backbone Cable With Double Sheaths	12 Fibers / 24 Fibers 4.5mm
		48 Fibers 8.5mm
		72 Fibers 10.4mm
		144 Fibers 13.5mm
Sheath Color	Single Mode Yellow	
	OM3	Aqua
	OM4 Violet	
	OM5	Lemon Green
Sheath Material	LSZH, OFNP(PVC)	
Tensile	50N	
Operating Temperature (°C)	-10-60	
Durability	≥100 times	
Density	MPO Insertion Loss (dB)	Return Loss (dB)
Single Mode APC	Std<0.7, ULL<0.35	>50(Length: >3m)
OM3	Std<0.35, ULL<0.25	>20(Length: >3m)
OM4	Std<0.35, ULL<0.25	>20(Length:>3m)
OM5	Std<0.35, ULL<0.25	>20(Length: >3m)



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Mechanical Performance

Mechanical Data	Test Standard	Condition	24 Cores (2 X 12 Cores Sub-unit)	48 Cores (4 X 12 Cores Sub-unit)	72 Cores (6 X 12 Cores Sub-unit)	144 Cores (12 X 12 Cores Sub-unit)
Divider Diameter(mm)			10			
Max Tensile Strength(N)	IEC60794-1-2 E1	Installation	500	800	1000	1200
		Operation	200	400	500	600
Crush Resistance(N/dm)	IEC60794-1-2 E3	Short Term	5000	15000	15000	15000
		Long Term	1000	2000	2000	2000
Min Bending Radius(mm)	IEC60794-1-2 E11	Installation	10	130	100	190
		Operation	20	90	150	200
Tensile Strength of Adaptor(N)	IEC60794-1-2 E1		50	50	50	50

Ordering Information

Part No.	Description	
VR-A/C/E+B/D/F-G-H-I-L-J-K	MTP/MPO Backbone Cable	
A, B	Connector	MPO 12, MPO 24, MTP 12, MTP 24
C, D	Connector Type	PC, APC
E, F	Connector Gender	M=Male, F=Female
G	Fiber Type	SM, OM3, OM4, OM5
H	Polarity	A, B, C
I	Fiber Core	12, 24, 48, 72, 144
L	Length	XXX=X m (001=1m)
J	Outer Sheath	None=LSZH, P=OFNP
K	Insertion Loss	None=Standard, U=ULL

Example: VR -MPO24/PC/M+MPO24/PC/M-OM3-B-24-010

Product Name: MPO Backbone Cable, MPO 24 Male to MPO 24 Male, 24 Cores, OM3, B Polarity, Double LSZH Sheath, 10 Meters