



## MTP/MPO Conversion Harness

### Description

The conversion harness converts the MTP/MPO backbone to those that matches the existing equipment. As the harness reduces one MTP/MPO connecting point in the links, it is a low loss alternative of conversion modules.

As we all know, 12-core connector is utilized by 40G/SR4 transceiver, and 24-core connector is for 100G/SR10 transceiver.

The conversion harness allows the user to combine two 12-core backbone cables into one 24-core connection to reach 100G data rate, or divide one 24-core backbone fiber to into two 12-core connections as well, which offers good flexibility and guarantees the transmission loss.

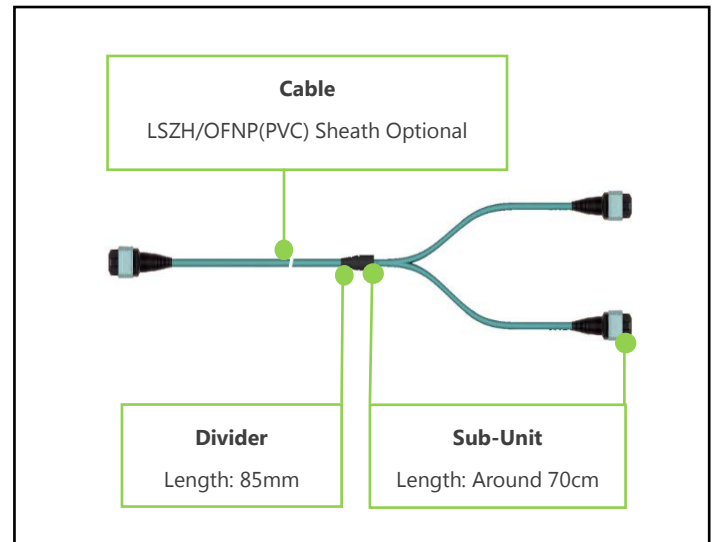
### Features & Benefits

- Color-coded connectors, boots and cable sheaths
- Low loss
- Small diameter
- Compact size of cable and divider
- Conversion between 12-core and 24-core backbone cables
- SM, OM3, OM4, OM5 fiber available

### Compliance & Standards

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

### Drawing



### Applications

- Data Center
- Telecommunication Infrastructure



MTP/MPO Conversion Harness

Product Specifications

Structure	Indoor Non-metallic OFC-Aramid Yarn, Double-sheath		
Cable Diameter	Sub-unit	8 Cores	2.8mm
		12 Cores	2.8mm
		24 Cores	3.0mm
	Backbone Cable with Double Sheaths	24 Cores	4.5mm
Sheath Color	Single Mode		Yellow
	OM3		Aqua
	OM4		Violet
	OM5		Lemon Green
Sheath Material	LSZH, PVC(OFNP)		
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	8 Cores	12 Cores	24 Cores
Max Tensile Strength of Divider (N)	IEC60794-1-2 E1	Installation	150	150	150
Max Tensile Strength (N)	IEC60794-1-2 E1	Installation	500	500	500
		Operation	5000	5000	5000
Crush Resistance (N/dm)	IEC60794-1-2 E3	Short Term	1000	1000	1000
		Long Term	20	20	20
Min Bending Radius (mm)	IEC60794-1-2 E11	Installation	10	10	10
		Operation			

Ordering Information

Part No.	Description	
VR-A/C/E+B/D/F-G-24-H-I-J	MTP/MPO Conversion Harness	
A	Connector	MPO 24, MTP 24
B	Connector	MPO 8, MPO 12, MTP 8, MTP 12
C, D	Connector Type	PC, APC
E, F	Connector Gender	M=Male, F=Female
G	Fiber Type	SM, OM3, OM4, OM5
24	Fiber Core	24
H	Cable Length	001-999m
I	Outer Sheath	None=LSZH, P=OFNP
J	Insertion Loss	None=Standard, U=ULL

Example: VR-MPO24/PC/F+MPO8/PC/F-OM3-24-010

Product Name: Conversion Harness, MPO 24 Female to MPO 8 Female, 24 Cores, OM3, Double Sheaths, 10 Meters