MPO/MTP Trunkcable

Features

- Plug and Play for easy and fast installation
- Fan-out lengths from 0.5 up to 1.5 meters
- Delivered with optional pulling eye
- LSZH jacket material
- Bend-insensitive fiber for multi-mode and singlemode
- Test report supplied with each cable assembly

Technical data

Criteria	Date /value
Connector type(side A)	MTP / MPO quick-release (MPO-QR) – Male or female
Frame color connector (side A)	Turquoise (OM3), Violet (OM4), Lime green (OM5), Yellow (singlemode)
Polishing connector(side A)	PC (multimode), APC 8° (singlemode)
Fan-out length(side A)	no (single jacket, 1 connector) / 0.5m to 1.5m (Double jacket / single jacket > 1 connector)
Connector type(side B)	MTP / MPO quick-release (MPO-QR) – Male or female
Frame color connector (side B)	Turquoise (OM3), Violet (OM4), Lime green (OM5), Yellow (singlemode)
Polishing connector(side B)	PC (multimode), APC 8° (singlemode)
Fan-out length(side B)	no (single jacket, 1 connector) / 0.5m to 1.5m (Double jacket / single jacket > 1 connector)
Type of protection connector	IP20
Cable color	lime green (OM5), heather violet (OM4), turquoise (OM3), yellow (OS2)
Fiber class	MM G50/125µm OM5, MM G50/125µm OM4, MM G50/125µm OM3, SM E9/125µm
Cable type	Minicore cable, round (strength member: aramid yarn)

Optical performance

Optical performance	Multimode	Singlemode
	MPOQR/MTP	MPOQR/MTP
Insertion Loss* max.	≤0.30dB	≤0.30dB
Return Loss*	≥35dB	≥55dB

*The values stated were determined in accordance with the measurement procedures prescribed by IEC 61300-3-4, IEC 61300-3-6 respectively. If other measuring methods are used, deviating values may be obtained

Mechanical characteristics

Criteria	Date /value
Mating cycles	<1000

Environmental characteristics

Criteria	Date /value
Operating Temp.Connector [°C]	-40°C to +70°C
Operating Temp.Cable [°C]	-20°C to +60°C

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Fiber

	G652.D/G657A (OS2) Singlemode	OM3 Multimode	OM4 Multimode	OM5 Multimode
Wavelength [nm]	1310 / 1550	850 / 1300	850 / 1300	850 / 953 / 1300
Attenuation [dB/km]	G652.D: 0.39 / 0.25 G657.A: 0.40 / 0.25	≤ 3.0 / ≤ 1.0	≤ 3.0 / ≤ 1.0	≤ 2.5/≤ 1,8/≤ 0,6
Bandwidth OFL [MHz•km]	-	≥1500 / ≥500	≥3500/≥500	≥3500/≥1850/≥500
Effective Modal Bandwidth [MHz•km]	-	≥2000 / -	≥4700 / -	≥ 4700 / ≥ 2470 /

Cable

	Fiber	OFNP	OFNR	LSZH(Eca/Cca)
		Single / double jacket	Single / double jacket	Single / double jacket (only Eca version for double jacket)
Outer Diameter [mm]	12	3.0 / 4.5	3.0 / 4.5	3.0 / 4.5
	24	3.5 / 5.0	3.5 / 5.0	3.5 / 5.0
	36	- / 9.0	- / 9.0	- / 9.0
	48	- / 9.0	- / 9.0	- / 9.0
	72	- / 7.5	- / 7.5	- / 7.5
	144	- / 9.0	- / 9.0	- / 9.0
Weight [kg/km]	12	14.0 / 23.0	14.0 / 23.0	14.0 / 23.0
	24	30.0 / 52.0	30.0 / 52.0	30.0 / 52.0
	36	- / 81.0	- / 81.0	- / 81.0
	48	- / 91.0	- / 91.0	- / 91.0
	72	- / 50	- / 50	- / 50
	144	- / 70	- / 70	- / 70
Minimum Bending Radius [mm] (during installation)	12	60	60	60
	24	120	120	120
	36	180	180	180
	48	180	180	180
	72	50	50	50
	144	60	60	60
Minimum Bending Radius [mm] (installed)	12	30	30	30
	24	60	60	60
	36	90	90	90
	48	90	90	90
	72	112	112	112
	144	60	60	60
Maximum Tensile Force [N] (during installation)	12	200 / 400	200 / 400	200 / 400
	24	200 / 400	200 / 400	200 / 400
	36	- / 1000	- / 1000	- / 1000
	48	- / 1000	- / 1000	- / 1000
	72	- / 1000	- / 1000	- / 1000
	144	- / 1000	- / 1000	- / 1000
Maximum Tensile Force [N] (installed)	12	100 / 200	100 / 200	100 / 200
	24	100 / 200	100 / 200	100 / 200
	36	- / 300	- / 300	- / 300
	48	- / 300	- / 300	- / 300
	72	- / 300	- / 300	- / 300
	144	- / 300	- / 300	- / 300

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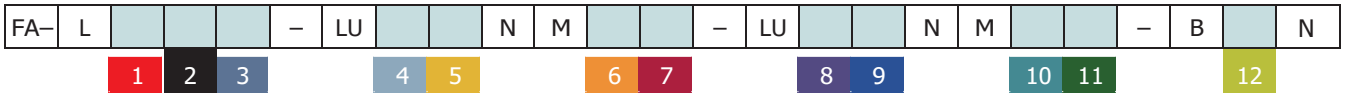
Standards

IEC 61754-7	Geometrical requirements MPO/MTP
IEC 61300-3-4	Insertion Loss (Method: against Reference)
IEC 61300-3-6	Return Loss

Ordering Information



1 Choose fiber count
12 = 12 fibers*
24 = 24 fibers*
36 = 36 fibers
48 = 48 fibers
72 = 72 fibers
144 = 144 fibers

2 Choose fiber type
S3Y = singlemode (OS2)
M3T = multimode (OM3)
M4H = multimode (OM4)
M5L = multimode (OM5)

3 Choose jacket type
S = standard jacket
D = ruggedized jacket

4 Choose polish angle
0 if multimode or singlemode PC
8 if singlemode APC

5 Choose grade for LC uniboot
A = Grade A_m if multimode
B = Grade B if singlemode
C = Grade C if singlemode

6 Choose staggering scheme
05 = fanout length 0.5 m
08 = fanout length 0.8 m
10 = fanout length 1.0 m
15 = fanout length 1.5 m
S1 = Suited for RCM

7 Choose grip scheme on end A
P = with grip
O = without grip

8 Choose polish angle
0 if multimode or singlemode PC
8 if singlemode APC

9 Choose grade for LC uniboot
A = Grade A_m if multimode
B = Grade B if singlemode
C = Grade C if singlemode

10 Choose staggering scheme
05 = fanout length 0.5 m
08 = fanout length 0.8 m
10 = fanout length 1.0 m
15 = fanout length 1.5 m
S1 = Suited for RCM

11 Choose grip scheme on end B
P = with grip
O = without grip

12 Choose cable length from endface to endface
1,1 – 150 m (standard jacket)
1,1 – 400 m (ruggedized jacket)

* OM5 with 12 and 24 fibers only