

Indoor Pre-Terminated Fiber Trunk Assemblies

48F - 576F



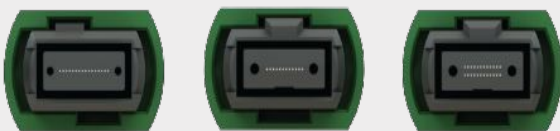
Product Details

STL Indoor Pre-terminated Trunks are designed for high-density MMC, MPO, and LC terminations, meeting the stringent requirements of ANSI/ICEA S-83-596 and UL OFNP, Thermoplastic Plenum or OFNR, Thermoplastic Riser cable standards. The cables utilize STL's patented IBR, rollable ribbon fibers, resulting in smaller overall cable diameters. The cable assemblies are 100% tested to STL's stringent optical performance specifications.

Features & Benefits:

- Ideal for use in Data Centers
- Offered in Plenum (OFNP) or Riser (OFNR) jacket ratings
- Offered standard with Single-mode G.657.A2 200 μm or 250 μm fiber or Multimode Fiber OM4 250 μm fiber, enabling operation in confined spaces with tight routing and reduced bend radius.
- STL's Celesta Intermittently Bonded Ribbon (IBR) Cable's innovative bond design results in dense fiber packing and smaller cable diameter
- Supports 40-1600GB/s Ethernet and InfiniBand applications
- Offered in Base-8, Base-12, Base-16 and Base-24 options
- Utilizes MMC, MTP and MPO Connectors

MPO



1x16

1x12

2x12

MMC



1x16

1x12

2x12

Product Specifications

Fiber Types	OS2 G.657.A2, OS2 G.657.A1, OM4
Fiber Count	48-576F
Jacket Color	OS2: Yellow, OM4: Aqua
Length Tolerance	Connector tip-to-tip: 0 to 30m: -0/+300mm; 30 to 300m: -0/+400mm
Outer Jacket Material	OFNP, OFNR
Connector Housing	SM: Green, OM4: Aqua
Connector Boot	Black

Optical Specifications

MMC/MPO/LC Performance		Max IL (dB)	Min RL(dB)
Connector	Performance Level	@1310/1550nm	@1310/1550nm
SM MMC16/APC SM MMC24/APC	Ultra Low Loss	≤ 0.35	$\geq 65\text{dB}$
SM MPO/APC	Low Loss	≤ 0.35	$\geq 60\text{dB}$
	Ultra Low Loss	≤ 0.30	
MM MPO/PC	Low Loss	≤ 0.30	$\geq 25\text{dB}$
	Ultra Low Loss	≤ 0.25	
MM MPO/APC	Low Loss	≤ 0.35	$\geq 60\text{dB}$
	Ultra Low Loss	≤ 0.30	
LC/UPC	Low Loss	≤ 0.25	$\geq 55\text{dB}$
LC/APC			$\geq 60\text{dB}$

Optical Fiber Characteristics

Parameter	Single-Mode Fiber		Multimode Fiber
Fiber Type	ITU-T G.657.A2 250 μm	ITU-T G.657.A2 200 μm	OM4 250 μm
Operating Wavelengths (nm)	1310/1383/ 1550	1310/1383/ 1550	850 / 1300
Maximum Attenuation (dB/km)	0.4 / 0.4 / 0.3	0.4 / 0.4 / 0.3	3.0 / 1.0

For additional information please contact your sales representative.

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Mechanical Specifications

Cable Mechanical & Environmental Characteristics		
Cable Characteristics	Cable Performance	Testing Standard Method
Tensile Strength - Short Term	660N	ICEA S-83-596 FOTP-33
Tensile Strength - Long Term	220N	ICEA S-83-596 FOTP-33
Crush	1000 N/100mm	ICEA S-83-596 FOTP-41
Impact	2.94 Nm	ICEA S-83-596 FOTP-25
Cable Bend Radius - Short Term / Dynamic	15 x Cable OD (outer diameter)	ICEA S-83-596 FOTP-88
Cable Bend Radius - Long Term / Static	10 x Cable OD (outer diameter)	ICEA S-83-596 FOTP-88
Temperature Performance		ICEA S-83-596 FOTP-3
Installation	0° C to +60° C	
Operation	-10° C to +70° C	
Storage	-40° C to +70° C	

Fiber Count	Cable Nominal OD mm (Inches)	Min Bend Radius (Long Term)	Min Bend Radius (Short Term)	Cable Weight Kg/km (lbs/Kft)
48	5.8 (0.23)	58 (2.3)	87 (3.5)	35 (0.024)
72	6.4 (0.25)	64 (2.5)	96 (3.8)	40 (0.027)
96	6.8 (0.27)	68 (2.7)	102 (4.1)	45 (0.030)
144	9.0 (0.35)	90 (3.5)	135 (5.3)	95 (0.064)
192	9.4 (0.37)	94 (3.7)	141 (5.5)	100 (0.067)
288	10.2 (0.40)	102 (4.0)	153 (6.0)	120 (0.080)
432	11.4 (0.45)	114 (4.5)	171 (6.8)	140 (0.094)
576	12.2 (0.48)	122 (4.8)	183 (7.2)	160 (0.108)

Connector Options



MMC16/24/32



MPO12/16



MTP12/16/24



LC Unibody

Fiber & Cable Performance Standards

- Cable assemblies comply to the following standards: IEC 60793, IEC 60794, ANSI/ICEA S-83-596, ITU-T, RoHS, REACH, EIA/TIA-598C
- UL 1651/1666 Standards:
- OFNR - Optical Fiber Non-Conductive Riser
- OFNP - Optical Fiber Non-Conductive Plenum, Compliant with NEC Article 770

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Part Number Configurator

1	2	3	4	5	6	7	8	9	10	11	12
Product Type	Cable Type	Fiber Type	Fiber Count	Jacket Type	Polarity	Connector 1	Connector 2	Loss Type	Pulling Eye	Length Unit	Length
MT	J	6	K	P	T	25	25	L	1	F	50

1 Product Type	2 Cable Type	3 Fiber Type	4 Fiber Count	5 Jacket Type	6 Polarity
MT MC LC	MTP MMC LC	J L	6 2 9 4	R P	A B C T E J
	Indoor IBR	OS2 G657A2 200µm	48F	OFNR	Method A
	Indoor Micro Loose Tube	OS2 G657A2 250µm	72F	OFNP	Method B
		OS2 G657A1 250µm	96F		Method C
		OM4 250µm	144F		MMC Trunk
			192F		MMC Extender
			288F		MMC Jumper
			432F		
			576F		

For other parameters refer next page

Example Part Number

Example	Description
MCJ6KPT2525L1F0050	Fiber Trunk, 576F, SM A2 200, OFNP, MMC16 (Pinned) to MMC16 (Pinned), Trunk Polarity, Low Loss, Pulling Eye End 2, 50 ft long

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Part Number Configurator

Product Specification

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Connector 1

11	8F MTP Base-8 pinned
12	8F MTP Base-8 unpinned
13	12F MTP Base-12 pinned
14	12F MTP Base-12 unpinned
15	16F MTP Base-16 pinned
16	16F MTP Base-16 unpinned
17	24F MTP Base-24 pinned
18	24F MTP Base-24 unpinned
21	8F MMC Base-8 pinned
22	8F MMC Base-8 unpinned
23	12F MMC Base-12 pinned
24	12F MMC Base-12 unpinned
25	16F MMC Base-16 pinned
26	16F MMC Base-16 unpinned
27	24F MMC Base-24 pinned
28	24F MMC Base-24 unpinned
31	16F MPO Base-16 pinned
32	16F MPO Base-16 unpinned
33	8F MPO Base-8 pinned
34	8F MPO Base-8 unpinned
35	12F MPO Base-8 pinned
36	12F MPO Base-8 unpinned
37	LC Unibody/UPC
38	LC Unibody/APC
39	LC Duplex UPC
40	LC Duplex APC
UT	Unterminated (Blunt)

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Connector 2

11	8F MTP Base-8 pinned
12	8F MTP Base-8 unpinned
13	12F MTP Base-12 pinned
14	12F MTP Base-12 unpinned
15	16F MTP Base-16 pinned
16	16F MTP Base-16 unpinned
17	24F MTP Base-24 pinned
18	24F MTP Base-24 unpinned
21	8F MMC Base-8 pinned
22	8F MMC Base-8 unpinned
23	12F MMC Base-12 pinned
24	12F MMC Base-12 unpinned
25	16F MMC Base-16 pinned
26	16F MMC Base-16 unpinned
27	24F MMC Base-24 pinned
28	24F MMC Base-24 unpinned
31	16F MPO Base-16 pinned
32	16F MPO Base-16 unpinned
33	8F MPO Base-8 pinned
34	8F MPO Base-8 unpinned
35	12F MPO Base-8 pinned
36	12F MPO Base-8 unpinned
37	LC Unibody/UPC
38	LC Unibody/APC
39	LC Duplex UPC
40	LC Duplex APC
UT	Unterminated (Blunt)

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Loss Type

L	Low Loss
U	Ultra Low Loss

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Pulling Eye

0	No Pulling Eye
1	Pulling Eye, Connector 2 End
2	Pulling Eye, Both Ends
3	Pulling Eye, Connector 1 End

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Length Unit

M	Meter
F	Foot

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Length

0001	1M or F
9999	Max M or F

Packaging:
Under 35m: Coiled in box
Over 35m: On plastic/wooden spool



Pulling Eye

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