

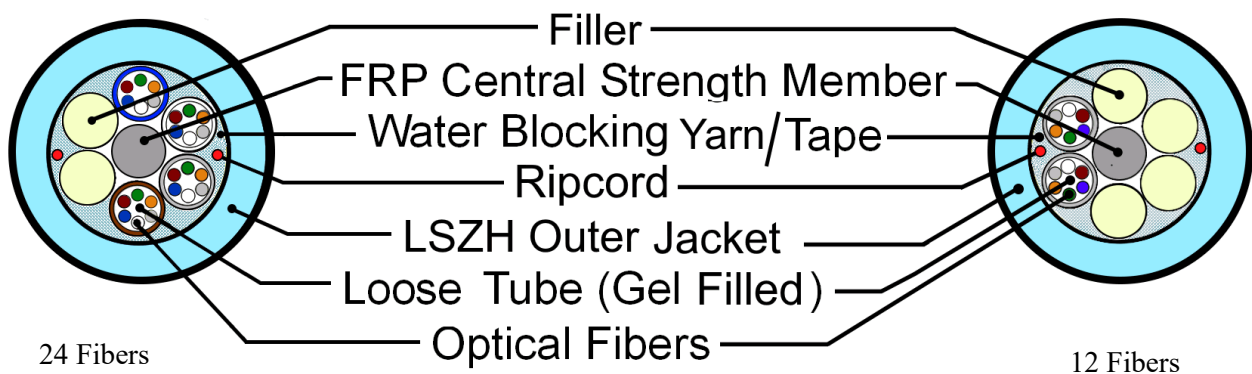


Xlight F/O Indoor MLT, LSZH, IEC 60332-3-24

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Cable Cross Section



Features

- Color Coded Optical fibers are housed in loose tubes that are made of high-modulus plastic and filled with waterproof compounds.
- The tubes (and fillers) are stranded around the central strength member to form a cable core.
- An all-dielectric design makes this suitable for areas prone to lightning.
- LSZH outer jacket complies with fire standards IEC 60332-3-24 (3C), IEC 60754, IEC 61034
- Accurate process control ensures good mechanical and temperature performance.
- High quality raw material guarantees the long service life of cable.
- Other Standards: EIA/TIA 568-C.3, IEC 11801, ITU-T G.652D/G.657, TIA-492AAAF, IEC 60793, IEC 60794, RoHS Compliant



Specifications

Properties for Optical Fiber

Multi-Mode OM3 / OM4 Bend Insensitive

Items	Values
Attenuation at 850 nm	≤ 2.4 dB/km
Attenuation at 1300 nm	≤ 0.6 dB/km
Core diameter	50 ± 2.5 μ m
Core/Clad concentricity error	≤ 1.0 μ m
Cladding diameter	125 ± 1.0 μ m
Cladding non-circularity	$\leq 1.0\%$
Primary Coating diameter	245 ± 7 μ m
OFL Bandwidth @850nm	≥ 3500 MHz.km
OFL Bandwidth @1300nm	≥ 500 MHz.km
Macro-bend induced attenuation 15mm radius, 2 turns 37.5mm radius, 100 turns	$\Delta \leq 1.0$ dB/km @1300 nm $\Delta \leq 0.5$ dB/km @1300 nm

Single-Mode G652D/ G657

Items	Values
Attenuation at 1310 nm	≤ 0.35 dB/km
Attenuation at 1383 nm	≤ 0.35 dB/km
Attenuation at 1460 nm	≤ 0.25 dB/km
Attenuation at 1490 nm	≤ 0.23 dB/km
Attenuation at 1550 nm	≤ 0.21 dB/km
Attenuation at 1625 nm	≤ 0.23 dB/km
Cable cut-off wavelength	≤ 1260 nm
Zero-dispersion wavelength	1300 ~ 1324 nm
Zero-dispersion slope	≤ 0.091 ps/(nm ² .km)
Mode field diameter	@ 1310 nm 8.7~9.5 μ m
Core/Clad concentricity error	≤ 0.6 μ m
Cladding diameter	125 ± 1.0 μ m
Cladding non-circularity	$\leq 1.0\%$
Primary Coating diameter	245 ± 7 μ m
Macro-bend induced attenuation 16 mm radius, 1 turn 25mm radius, 100 turns 30mm radius , 100 turns	$\Delta \leq 0.05$ dB @1550nm $\Delta \leq 0.05$ dB @1550nm $\Delta \leq 0.05$ dB @1625nm



Specifications

Fiber & Loose Tubes Identification

The color code of fibers and loosed tubes will be in accordance with the following color sequence, other sequence also is available.

1	2	3	4	5	6	7	8	9	10	11	12
blue	orange	green	brown	slate	white	red	black	yellow	violet	pink	aqua

Cable Dimensions and Constructions

Items		Descriptions		
Optical fiber	Fiber counts	6	12	24
Loose tube	Material	PBT		
	Number	1	2	4
	Diameter(mm) Approx.	2.4 mm		
	Water blocking	Jelly compound		
	Fibers per tube	6		
Central strength member	Material	FRP		
Water Blocking	Material	Water blocking yarns/tape		
Ripcord	Material	Red polyester		
	Number	2		
Outer sheath	Material	LSZH		
	Color code	Yellow for SM Aqua for OM3 & OM4		
	Thickness (mm)	2.0±0.2		
Cable Outer Diameter (mm)		11.5±0.4		
Cable Weight (kg/km)		125	127	129



Specifications

Environmental Characteristics

Items		Descriptions	
Tensile performance	IEC 60794-1-E1	short-term	1500N
		long-term	600N
Crush Resistance	IEC 60794-1-E3	short-term	1000N/10cm
		long-term	300N/10cm
Cable Impact	IEC 60794-1-E4	No obvious change after test	
Repeat Bending	IEC 60794-1-E6		
Torsion	IEC 60794-1-E7		
Temperature Range	IEC 60794-1-2-F1	-40°C~+70°C	
Bending Radius	Static	10×Cable Diameter	
	Dynamic	20×Cable Diameter	

Packaging and Drum

Cable Sheath Marking

Unless otherwise specified, the cable sheath marking shall be as follows:

- Color: Black
- Contents: RiT, RiT P/N, the type of cable, fibers number, date, length
- Interval: $1.0 \pm 0.5\%$ m

Outer sheath marking legend can be changed according to user's requests.

Reel Length

Standard reel length 2 km/reel. Other lengths are available on request.

Cable Drum

The cables are packed in fumigated wooden drums.

Cable Packing

Both ends of the cable will be sealed with suitable plastic caps to prevent the entry of moisture during shipping, handling and storage. The inner end is available for testing.



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Ordering Information

Number	Description
R2911066	Indoor F/O Cable, MLT, SM, G657A2, 6 (1x6) Fibers, CDM, LSZH, 332-3-24
R2911126	Indoor F/O Cable, MLT, SM, G657A2, 12 (2x6) Fibers, CDM, LSZH, 332-3-24
R2911246	Indoor F/O Cable, MLT, SM, G657A2, 24 (4x6) Fibers, CDM, LSZH, 332-3-24
R2913066	Indoor F/O Cable, MLT, MM, OM3 BI, 6 (1x6) Fibers, CDM, LSZH, 332-3-24
R2913126	Indoor F/O Cable, MLT, MM, OM3 BI, 12 (2x6) Fibers, CDM, LSZH, 332-3-24
R2913246	Indoor F/O Cable, MLT, MM, OM3 BI, 24 (4x6) Fibers, CDM, LSZH, 332-3-24
R2914066	Indoor F/O Cable, MLT, MM, OM4 BI, 6 (1x6) Fibers, CDM, LSZH, 332-3-24
R2914126	Indoor F/O Cable, MLT, MM, OM4 BI, 12 (2x6) Fibers, CDM, LSZH, 332-3-24
R2914246	Indoor F/O Cable, MLT, MM, OM4 BI, 24 (4x6) Fibers, CDM, LSZH, 332-3-24