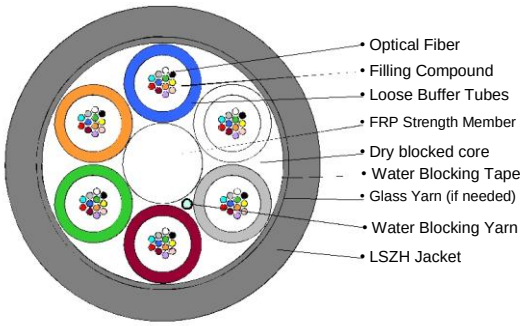
OPLINX FIBER OPTIC LOOSE TUBE CABLE

Multi Loose Tube LSZH sheathed

Description

- Up to 288 optical fibres contained in jelly filled loose tubes (12 fibres/tube).
- The tubes and fillers are laid up around a non-metallic strength member.
- The cable core is “dry” blocked, taped, and LSZH sheathed.
- Surface printing includes sequential length marking at one-metre intervals



Applications

- The cable is used by telecommunications carriers and designed for long haul applications including direct burial, duct hauling or blowing.

Applicable Specifications

- IEC 60793 and IEC 60794 & ITU-T G.652D

Color codes of optical fibres and loose tubes

- Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Light blue

Mechanical Characteristics

Fiber Count	Tube Diameter [mm]	Nominal Diameter [mm]	Nominal Weight [kg/km]	Max. Tension		Max. Crush Resistance [kN/100mm]	Min Bend Radius	
				Installation [kN]	In Service [kN]		Under load [mm]	No load [mm]
~ 72	2	9.6	72	2.3	1.3	1.5	20 x OD	10 x OD
~ 96	2	10.6	90	2.3	1.3	1.5	20 x OD	10 x OD
~ 120	2	11.8	110	2.3	1.3	1.5	20 x OD	10 x OD
~ 144	2	13.0	130	2.3	1.3	1.5	20 x OD	10 x OD
~ 288	2	16.0	190	2.3	1.3	1.5	20 x OD	10 x OD

Environmental Characteristics

Storage Temperature	-20 to +70 °C
Operating Temperature	-20 to +70 °C

Optical Characteristics

- Single Mode Fibres

	G652	G652.D
Attenuation (dB/km) (max) @1310/1383/1550nm (typical)	0.4/ NA/ 0.3 0.36/NA/0.22	0.4/0.38/0.3 0.36/0.35/0.22
Zero dispersion Wavelength (nm)	1300-1324	1300-1322
Slope @ Zero Dispersion Wavelength (ps/nm^2.km)	≤ 0.093	≤ 0.093
PMD (ps/√km)	≤ 0.3	≤ 0.2
MFD (um) @ 1310nm @ 1550nm	9.2 ± 0.5 10.5 ± 1.0	9.2 ± 0.4 10.5 ± 1.0
Cladding diameter (um)	125 ± 2	125 ± 1.0
Mode filed concentricity err. (um)	≤ 0.6	≤ 0.5
Cladding non-circularity (%)	≤ 1.5	≤ 1.0
Fibre coating diameter (um)	245 ± 10	250 ± 10

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- Multimode Fibres

	62.5 um (OM1)	50 um (OM2)	50 um (OM3)	50 um (OM4)
Attenuation (dB/km) @850/1300 nm	3.5/1.0	3.0/1.0	3.0/1.0	3.0/1.0
Min. Laser EMB Bandwidth @850/1300nm (MHz.km)	-	-	2000/500	4650/-
Min. OFL Bandwidth @850/1300nm (MHz.km)	200/500	500/500	1500/500	3500/500
Numerical aperture	0.275 ± 0.015	0.200 ± 0.015	0.200 ± 0.015	0.200 ± 0.015
Typical Core dia. (um)	62.5 ± 3.0	50 ± 3.0	50 ± 3.0	50 ± 3.0
Core-Clad Conc Error (um)	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0
Cladding diameter (um)	125 ± 2	125 ± 2	125 ± 2	125 ± 2
Fibre Coating dia. (um)	245 ± 15	245 ± 10	245 ± 15	245 ± 15
Min G-Ethernet transmission Distance at 850/1300nm (m)	250/550	550/550	300/-	550/-