

Fibre Optic Cable Loose Tube / Dry Core LSZH Jacket

Cable containing up to 72 optical fibres in water blocked loose tubes (Maximum 12 fibres per tube) and solid PE Fillers, around a fibreglass reinforced plastic central strength member.

A zero halogen flame retardant low smoke and fume thermoplastic sheathed.

The cable is suitable for applications where low smoke generation, low toxicity and low acidic fumes under fire conditions are expected and internal environments.

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

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

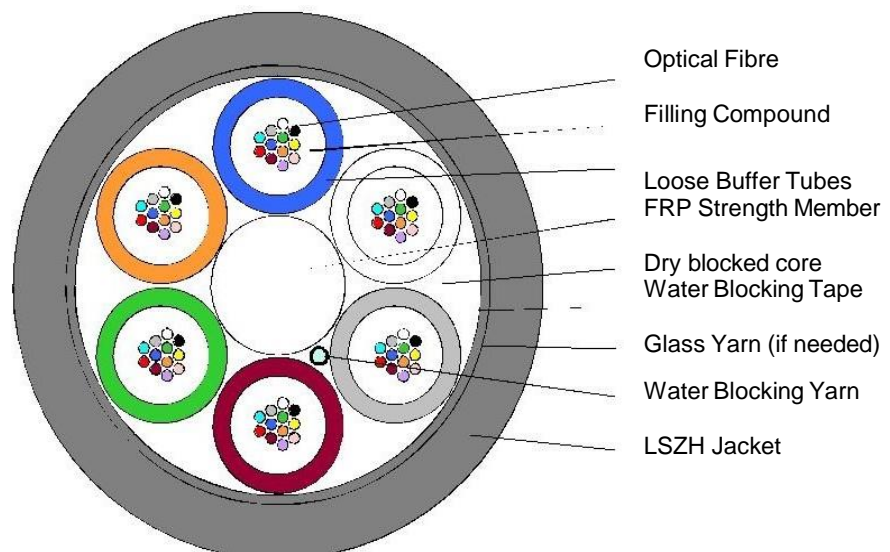
Applicable Specifications

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

Colour codes of optical fibres and loose tubes

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

Mechanical Characteristics



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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]
2~ 72	2	9.6	72	1.8	1.3	1.5	20 x OD	10 x OD
~ 96	2	10.6	90	1.8	1.3	1.5	20 x OD	10 x OD
~ 120	2	11.8	110	2.0	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

• 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/n 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 field concentricity err. (um)	≤ 0.6	≤ 0.5
Cladding non-circularity (%)	≤ 1.5	≤ 1.0
Fibre coating diameter (um)	245 ± 10	250 ± 10

• 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/-