

FIBRE OPTIC LOOSE TUBE CABLE

Polyethylene sheathed with Insect resistant nylon outer jacket

Description

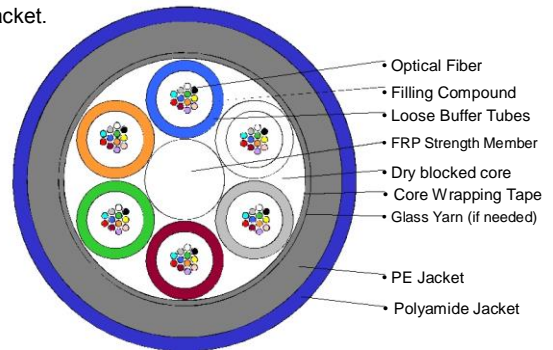
- Up to 288 optical fibres contained in jelly filled loose tubes (12 fibres per tube).
- The tubes and fillers are laid up around a non-metallic strength member.
- The cable core is “dry” blocked, taped, and polyethylene sheathed with nylon jacket.
- Surface printing includes sequential length marking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



Colour 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	2.0	2.0	20 x OD	10 x OD
~ 96	2	10.6	90	2.3	2.0	2.0	20 x OD	10 x OD
~ 120	2	11.8	110	2.3	2.0	2.0	20 x OD	10 x OD
~ 144	2	13.0	130	2.3	2.0	2.0	20 x OD	10 x OD
~ 288	2	16.0	190	2.3	2.0	2.0	20 x OD	10 x OD

Environmental Characteristics

Storage Temperature -20 to +70 °C

Operating Temperature -20 to +70 °C

Optical Characteristics

Singlemode
Fibres

	G652	G652.D (Supplied as standard)
Attenuation (dB/km) (max) @ 1310/1383/1550 nm (typical)	0.4/ NA/ 0.3 0.35/NA/0.22	0.4/0.38/0.3 0.34/0.31/0.21
Zero dispersion Wavelength	1300-1324 mm	1302-1322 mm
Slope @ Zero Dispersion Wavelength (ps/nm ² .km)	0.092	0.090
PMD (ps/√km)	0.1	0.1
MFD @ 1310nm @ 1550 nm	9.2 ± 0.4 mm 10.4 ± 0.5 mm	9.2 ± 0.4 mm 10.4 ± 0.5 mm
Cladding diameter (mm)	125 ± 2	125 ± 0.7
Mode field concentricity err.	≤ 0.8 mm	≤ 0.5 mm
Cladding non-circularity (%)	1	1
Fibre coating diameter (mm)	250 ± 10	250 ± 10

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Multimode Fibres

	62.5 mm (OM1)	50 mm (OM2)	50 mm (OM3)	50 mm (OM4)
Attenuation (dB/km) @ 850/1300 nm	3.0/1.0	3.0/1.0	3.0/1.0	3.0/1.0
Min. Laser EMB Bandwidth @ 850/1300nm (MHz.km)	-	-	2000/500	4700/500
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. (mm)	62.5±2.5	50±2.5	50±2.5	50±2.5
Core-Clad Conc Error (mm)	≤1.5	≤1.5	≤1.5	≤1.5
Cladding diameter (mm)	125 ± 1	125 ± 1	125 ± 1	125 ± 1
Fibre Coating dia. (mm)	250 ± 10	250 ± 10	250 ± 10	250 ± 10
Min G-Ethernet transmission Distance at 850/1300nm (m)	275/550	550/550	970/600	970/600