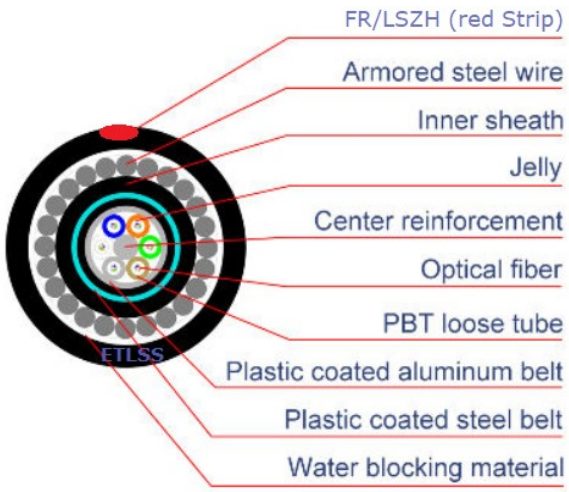
Loose duct tube fiber optic cable with LSZH/FR

Fiber cable specifies an armoured, fire-resistant (IEC 60331) multi loose tube fiber optic cable with an FRP central strength member. It contains up to six mica tape-wrapped, water-blocking gel-filled tubes, each holding up to 12 fibers. The mica tape protects fibers during fire, ensuring signal integrity. The cable features an inner LSZH jacket, steel wire armoring for mechanical and rodent protection, and an oil-resistant, UV- and termite-resistant SHF2 outer jacket, making it suitable for direct burial and harsh environments. This type of cable is particularly suitable for underground burial, ducting, and cable tray installations in access network constructions.

Features:



Design High fiber count (12-48C)

Structure and Technical Specifications

Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Allowable Tensile Load (N)		Allowable Crush Resistance(N/100mm)	
			Short Term	Long Term	Short Term	Long Term
12~36	14+/-[0.5]	430	1500	1000	1000	10000
Cable Sheath Color : Black / Red strip line			Sheathing compound : Polyethylene (HDPE) Low smoke zero Halogen free, flame-resistant thermoplastic			UV stabilized

Fiber optic Characteristics

Transmission Characteristics			
Type fiber	SM (1310/1550 nm)	MM 50/125	MM 62.5/125
Max Attenuation (dB/km)	0.4/0.30	3.5/1.5	3.5/1.5
Typical Attenuation (dB/km)	0.35/0.21	3.1/1.0	3.0/1.0
Mini Bandwidth (Mhz.km)	--	400/400	160/500

ECHNICAL CHARACTERISTICS
Operating Tensile Strength (Refer to IEC 60794-1-E1)
≤ 5000 N
Crush Strength (Refer to IEC 60794-1-E3)
≤ 5000 N/ 100 mm
Impact Strength (Refer to IEC 60794-1-E4)
≤ 12 Nm
Torsion (Refer to IEC 60794-1-E7)
30 twists, 2 direction @ 180°, Load 250N
Kink Strength (Refer to IEC 60794-1-E10)
15 x Cable Outside Diameter
Minimum Bending Radius (Refer to IEC 60794-1-E11)
20 x Cable Outside Diameter
Operating & Storage Temperature
Up to 70° C
Environment Humidity
Up to 100 %
Water Ingression Resistance (Refer to IEC 60794-1-F5B)
No leakage for 24-hour testing with 1-m Height water column
Flame Retardant Test (Refer to IEC 60331)
7-liter flammable material/m: 40 min, the visible area of fire damage
Halogen Test (Refer to IEC 60754)
Amount of halogen acid is less than 5 mg/g
Smoke Density Test (Refer to IEC 61034)
Light transmission ≥ 60%

Product codes – ordering information
ETL-SM-24C-OD-FR or LSZH
ETL-Type fiber -No Core- Environments (Outdoor) - Cable Sheath

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