

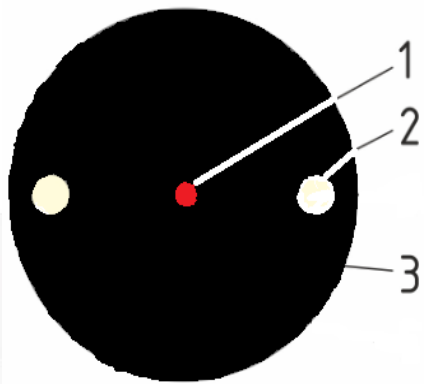


**Technical specification brand cable
Elsacor FTTHR-001 G.657A1 LSZH 500N**

Elsacor FTTHR-001 G.657A1 LSZH 500N is designed for installation inside buildings, in risers, attics, basements, pipelines, boxes, skirting boards, offices and apartments. It is easy to attach to any surface, simple and convenient to prepare and install. Fully dielectric design allows the cable to be used in conditions of electromagnetic fields, does not require grounding of power elements. Thanks to the use of ITU-T G.657A1 fiber (single-mode fiber with reduced bending losses), the minimum bending radius of the cable is 30 mm. The outer sheath is made of a halogen-free, low smoke, non-combustible material - LSZH (Low Smoke Zero Halogen). Two fiberglass reinforced plastic (FRP) strength members provide longitudinal tensile resistance to the cable.

1.1 Fiber type	ITU-T G.657A1 single-mode optical fiber
1.2 Coefficient attenuation	
1310 nm	0.36 dB/km
1550 nm	0.22 dB/km
1285-1330 nm	0.33 dB/km
1525-1625 nm	0.22 dB/km
1360-1480 nm	0.25 dB/km
1.3 Cutoff wavelength	≤ 1260 nm
1.4 The diameter of the mode field is 1310 nm	8.9 ± 0.4 μ m
1550 nm	9.5 ± 0.6 μ m
1.5 Shell diameter	125 ± 0.7 μ m
1.6 Coating concentricity error	≤ 12 μ m
1.7 Coverage error from round shape	no more than 0.7%
1.8 Cover diameter	250 ± 10 μ m
1.9 Chromatic dispersion	
1285-1330 nm	≤ 3.5 ps/nm*km
1550 nm	18 ps/nm*km
1.10 Wavelength of zero dispersion	1302...1324 nm
1.11 Slope of zero variance	0.090 ps/nm ² *km
1.12 Polarization-mode dispersion	≤ 0.15 PS/ km

2.1 Maximum load during traction	500 N
2.2 Maximum load during compression	1000 N/100 mm
2.3 Minimum bending radius, installation/operation	30 mm
2.4 Maximum temperature, installation/operation	(+40/ +60) ^{at} WITH
2.5 Minimum temperature, installation/operation	(-10/ -20) ^{at} WITH
3.1 Number of fibers, pcs	1
3.2 Fiber type	ITU-T G.657A1 single-mode optical fiber
3.3 Power elements	Cplastic rods (FRP)
3.4 Diameter of fiberglass rods (FRP), mm	0.5
3.5 Shell material	halogen-free low-smoke material that does not spread combustion — LSZH (Low Smoke Zero Halogen)
3.6 Cable diameter, mm	3.0 mm
3.10 Cable weight, kg/km	10 kg/km
3.11 Construction length on the coil	2000 m
3.12 Weight of a 1000m cable coil	22 kg
3.13 Dimensions of the drum	Diameter 380mm, width 380mm



1. Optical ITU-T G.657A1 fiber

2. Power element- two fiberglass bars (FRP) $\Phi=0.5$ mm

3. Shell with polymer, Whatnot spreads combustion, halogen-free LSZH