



**Technical specification brand cable
Elsacor FTTH-001 G.657A1 LSZH 100N**

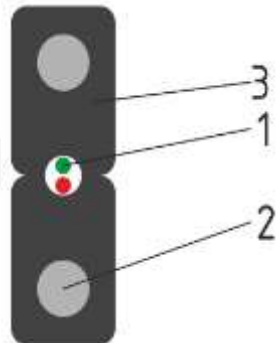
Description Elsacor FTTH-001 G.657A1 LSZH 100N



Elsacor FTTH-001 G.657A1 LSZH 100N is designed for installation inside buildings, in risers, attics, basements, pipelines, in boxes, along skirting boards, in offices and apartments. It can be easily attached to any flat surface, and is easy and convenient to prepare and install. 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 20...30 mm. The outer sheath is made of halogen-free, low smoke, non-combustible material - LSZH (Low Smoke Zero Halogen). The cable is resistant to longitudinal stretching due to two power elements made of phosphated steel wires.

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 μm
1550 nm	9.5 ± 0.6 μm
1.5 Shell diameter	125 ± 0.7 μm
1.6 Coating concentricity error	≤ 12 μm
1.7 Coverage error from round shape	no more than 0.7%
1.8 Cover diameter	250 ± 10 μm
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	100 N
2.2 Maximum load during compression	1000 N/100 mm
2.3 Minimum bending radius, installation/operation	30/20mm
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	Phosphated steel rods
3.4 Diameter of phosphated steel rods, mm	0.4
3.5 Shell material	halogen-free low-smoke material that does not spread combustion — LSZH (Low Smoke Zero Halogen)
3.6 Geometric dimensions of the cable, mm (external dimensions)	2.0 x 3.0 mm
3.10 Cable weight, kg/km	9.5 kg/km
3.11 Construction length on the coil	1000 m
3.12 Weight of a 1000m cable coil	11 kg
3.13 Dimensions of the drum	Diameter 260mm, width 260mm



1. Optical fibersITU-T G.657A1.

2. Power element-two steel phosphated wires $F=0.4$ mm

3. Shellwithpolymer,Whatnotspreads combustion,halogen-freeLSZH