

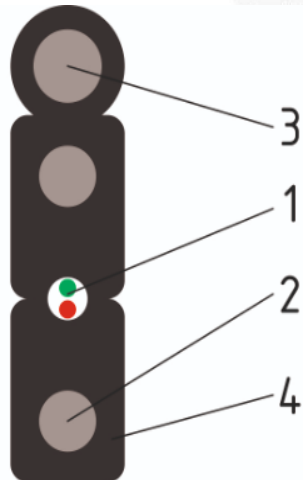


**Technical specification brand cable**  
**Elsacor FTTH+MS-001 G.657A1 LSZH 1000N**

Elsacor FTTH+MS-001 G.657A1 LSZH 1000N is designed for suspension between buildings, poles (self-supporting structure), as well as for laying inside buildings, in risers, attics, basements, pipelines, in boxes, along baseboards, in offices and apartments. It is easy to attach to any flat surface, simple and convenient for processing and installation. 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 tensile stretching due to two power elements made of phosphated steel wires. The supporting element for cable suspension is made of phosphated steel wire with a diameter of 1.0 mm.

1.1 Fiber type	ITU-T G.657A1 single-mode optical fiber
1.2 Coefficient attenuation	
1310 nm	0.36 dB/km
<a href="#">1550 nm</a>	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	$\leq 1260$ nm
1.4 The diameter of the mode field is 1310 nm	$8.9 \pm 0.4$ $\mu$ m
1550 nm	$9.5 \pm 0.6$ $\mu$ m
1.5 Shell diameter	$125 \pm 0.7$ $\mu$ m
1.6 Coating concentricity error	$\leq 12$ $\mu$ m
1.7 Coverage error from round shape	no more than 0.7%
1.8 Cover diameter	$250 \pm 10$ $\mu$ m
1.9 Chromatic dispersion	
1285-1330 nm	$\leq 3.5$ 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 <sup>2</sup> *km
1.12 Polarization-mode dispersion	$\leq 0.15$ PS/ km

2.1 Maximum load during traction	1000 N
2.2 Maximum load during compression	1500 N/100 mm
2.3 Minimum bending radius, installation/operation	30/20mm
2.4 Maximum temperature, installation/operation	(+40/ +60) <sup>at</sup> WITH
2.5 Minimum temperature, installation/operation	( -10/ -20) <sup>at</sup> 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 Diameter of the supporting element for cable suspension, mm	1.0
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 5.2 mm
3.10 Cable weight, kg/km	18.8 kg/km
3.11 Construction length on the coil	1000 m
3.12 Weight of a 1000m cable coil	21 kg
3.13 Dimensions of the drum	Diameter 300mm, width 270mm
2.1 Maximum load during traction	1000 N



1. Optical fibers ITU-T G.657A1.

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

3. Portable power element-steel phosphated wire  $F=1.0$ mm

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