

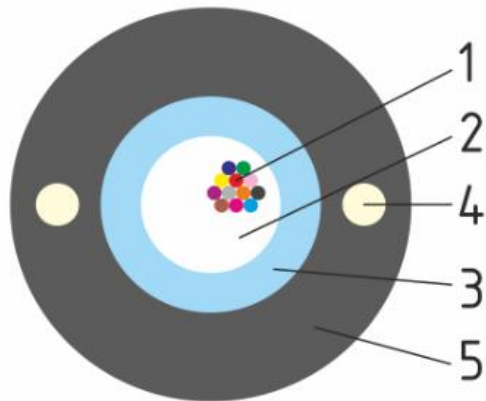


**Technical specification brand cable
ElsacorOP-UT-001...012 G.652D 1000N**

Elsacor OP-UT-001...012 G.652D 1000N is a compact dielectric optical cable, optimal for suspension on the poles of communication lines, urban electric transport, between buildings and other objects with spans up to 60m. Fully dielectric design allows the cable to be suspended on the poles of the contact network of electric transport or power lines if the induced electric field potential at the suspension points is not more than 12 kV. The small dimensions and weight also allow the cable to be tightened (blown) into protective plastic pipes. The cable with a central optical module can accommodate up to 12 optical fibers. The sheath is made of UV-stabilized high-density polyethylene. To ensure resistance to tensile loads, two fiberglass reinforcements with a diameter of 1.0 mm are mounted in the sheath.

1.1 Fiber type	ITU-T G.652D single-mode optical fiber
1.2 Attenuation coefficient 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	9.3 ± 0.5 μm
1550 nm	10.5 ± 1.0 μm
1.5 Shell diameter	125 ± 1 μm
1.6 Coating concentricity error	≤ 12 μm
1.7 Coverage error from round shape	no more than 0.7%
1.8 Cover diameter	245 ± 10 μm
1.9 Chromatic dispersion	
1285-1330 nm	≤ 3.0 ps/nm*km
1550 nm	18 ps/nm*km
1.10 Wavelength of zero dispersion	1312 ± 10 nm
1.11 Slope of zero variance	0.090 ps/nm ² *km
1.12 Polarization-mode dispersion	≤ 0.08

2.1 Maximum load during traction	1.0 kN
2.2 Maximum load during compression	2000 n/100 mm
2.3 Minimum bending radius, installation/operation	20Dcall
2.4 Maximum temperature, installation/operation	(+40/ +60) ^{at} WITH
2.5 Minimum temperature, installation/operation	(-10/ -30) ^{at} WITH
3.1 Number of fibers, pcs	from 1 to 12
3.2 Fiber type	ITU-T G.652D single-mode optical fiber
3.3 Diameter of the optical module	1-2 fibers of 1.6 mm; 4-12 fibers of 1.8 mm
3.4 Number of modules, pcs	1
3.5 Power elements	Fiberglass rods
3.6 Diameter of fiberglass rods, mm	1.0 mm
3.7 Colors of optical fibers	
	1. blue 2. orange 3. dark green 4. brown 5. gray 6. white 7. red 8. black 9. yellow 10. purple 11. pink 12. light green
3.8 Shell material	High density polyethylene (HDPE)
3.9 Geometric dimensions of the cable, mm (external dimensions)	1-2 fibers 5.0 mm; 4-12 fibers of 5.2 mm
3.10 Cable weight, kg/km	1-2 fibers 20 kg/km; 4-12 fibers of 22 kg/km
3.11 Construction length on the drum	4000 m



1. Optical fibers ITU-T G.652 D

2. Thixotropic hydrophobic placeholder.

3. Central tube.

4. Power element.

5. Shell with polyethylene.

Recommended fittings Tension clamp Zub-14 PRO, tension clamp Klin-H3 (TM Klin) or analog