



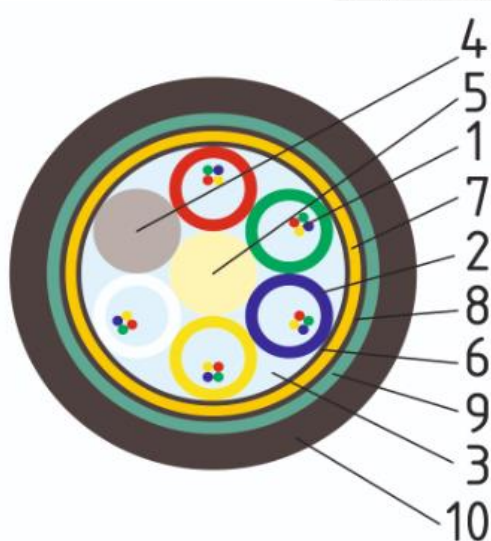
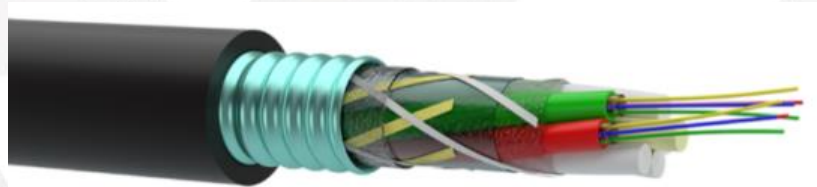
**Technical specification brand cable  
Elsacor OBg-LT-024...048 G.652D 2700N**

Elsacor OBg-LT-024...048 G.652 D 2700N - is designed for installation in cable ducts and pipelines, on bridges and overpasses, in tunnels, collectors at the entrance to the building, including in places infected with rodents, in light soils (without frost deformations), as well as along the outer walls of buildings and structures. The cable contains 4 optical modules wound around a central power element, which can accommodate 24 or 48 optical fibers.

Inside the modules is a hydrophobic gel. The space between the modules is filled with a water-blocking compound. The cable core is covered with a corrugated steel tape armor, which, in addition to mechanical protection, serves as a water barrier that prevents moisture diffusion through the polymer sheaths towards the optical fiber. The outer sheath is made of UV-stabilized high-density polyethylene.

1.1 Fiber type	ITU-T G.652D single-mode optical fiber
1.2 Attenuation coefficient 1310nm	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	$\leq 1260$ nm
1.4 The diameter of the mode field is 1310 nm	$9.3 \pm 0.5$ $\mu\text{m}$
1550 nm	$10.5 \pm 1.0$ $\mu\text{m}$
1.5 Shell diameter	$125 \pm 1$ $\mu\text{m}$
1.6 Coating concentricity error	$\leq 12$ $\mu\text{m}$
1.7 Coverage error from round shape	no more than 0.7%
1.8 Cover diameter	$245 \pm 10$ $\mu\text{m}$
1.9 Chromatic dispersion	
1285-1330 nm	$\leq 3.0$ ps/nm*km
1550 nm	18 ps/nm*km
1.10 Wavelength of zero dispersion	$1312 \pm 10$ nm
1.11 Slope of zero variance	0.090 ps/nm <sup>2</sup> *km
1.12 Polarization-mode dispersion	$\leq 0.08$

2.1 Maximum load during traction	2.7 kN
2.2 Maximum load during compression	3000 n/100 mm
2.3 Minimum bending radius, installation/operation	20Dcall
2.4 Maximum temperature, installation/operation	(+40/ +60) <sup>at</sup> WITH
2.5 Minimum temperature, installation/operation	( -10/ -30) <sup>at</sup> WITH
3.1 Number of fibers, pcs	24 or 48
3.2 Fiber type	ITU-T G.652D single-mode optical fiber
3.3 Number of modules, pcs	4
3.4 Power elements	Central fiberglass wire
3.5 Colors of optical fibers and optical modules	
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	
3.6 Shell material	High density polyethylene (HDPE)
3.9 Geometric dimensions of the cable, mm (external dimensions)	24 fibers 10.0mm, 48 fibers 10.4mm,
3.10 Cable weight, kg/km	24 fibers 96kg/km, 48 fibers 103kg/km
3.11 Construction length on the drum	4000 m
3.12 The weight of the cable drum is 4000m	433kg 24 fibers and 467kg 48 fibers



1. Optical fibers ITU-T G.652 D
2. Optical module
3. Hydrophobic thixotropic placeholder
4. Cordel (by availability)
5. Central power element-fiber glass rod
6. Binding tape
7. External shell-polyethylene high pressure
8. Aramid threads (for availability)
9. Armor from steel corrugated ribbons
10. External shell-polyethylene high pressure