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TOD – Direct Buried Single Tube Dielectric Armor



- 1. Outer sheath
- 2. Fiberglass Armor
- 3. Hydrophobic gel
- 4. Loose tube
- 5. Hydrophobic gel
- 6. Optical fiber

* It is possible to produce a cable with flame-redundant outer sheath, with low smoke and gas emission (ng(A)-HF)

Application

Optical cable is designed for installation in ground including swamps and shallow non-navigable river, in ducts, in pipes, in blocks, in trays, in tunnels, in headers, on bridges and skyways, between and inside buildings, for suspension on the supports of overhead communication lines towers, contact network and railways auto-blocking, power lines, lighting columns, power facilities, as well as with increased requirements for resistance to external electromagnetic influences.

Technical characteristics

Parameter	Value				
	Up to 6	Up to 8	Up to 12	Up to 16	Up to 24
Number of optical fibers	Up to 6	Up to 8	Up to 12	Up to 16	Up to 24
Tensile strength, kN	8				
Cable diameter, mm	10,7	10,7	10,7	10,7	10,9
Cable weight, kg/km	111,0	110,9	110,8	110,6	113,5
Bending radius, mm	160,5	160,5	160,5	160,5	163,5
Tensile strength, kN	10				
Cable diameter, mm	11,3	11,3	11,3	11,3	11,5
Cable weight, kg/km	125,2	125,1	124,9	124,8	127,8
Bending radius, mm	169,5	169,5	169,5	169,5	172,5
Tensile strength, kN	12				
Cable diameter, mm	11,9	11,9	11,9	11,9	12,1
Cable weight, kg/km	144,5	144,4	144,2	144,1	147,3
Bending radius, mm	178,5	178,5	178,5	178,5	181,5
Crushing force, kN/sm	0,7				
Operating temperature	-50°C...+70°C				
Installation temperature	-30°C...+50°C				
Transportation and storage temperature	-60°C...+70°C				
Minimum bending radius	Not less than 15 cable diameters				
Factory length, km	4				

Technical characteristics of optical fiber

Type of optical fiber	Corning SMF 28 Ultra	Corning SMF28e+BB
ITU-T recommendations	G.657A1 G.652D	G.657A1 G.652D
Deviation from the concentricity of the core, microns, not more	0,5	
Diameter of fiber sheath, microns	125±0,7	
Deviation from the roundness of the sheath,%, not more	0,7	
The diameter of the protective covering, microns	242±5	
Maximum attenuation at wavelength 1310 nm	0,32	0,34
Maximum attenuation at wavelength 1550 nm	0,18	0,20

Full name example

Optical cable TOD-P-12Y (1x12) 10kN

The cable consists of a single tube with freely laid fibers. The free space is filled with a hydrophobic gel in the optical single tubes. The single tube is spirally covered with the dielectric rods armor. The free space is filled with a hydrophobic gel between rods. The armor is covered with HDPE sheath.