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TOS – Direct Buried Single Tube Wire Armor



- 1. Outer sheath
- 2. Steel wire armor
- 3. Hydrophobic gel
- 4. Loose tube
- 5. Hydrophobic gel
- 6. Optical fiber

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

Technical characteristics

Parameter	Value	
	Up to 16	Up to 32
Number of optical fibers	Up to 16	Up to 32
Tensile strength, kN	7	
Cable diameter, mm	9,5	9,7
Cable weight, kg/km	155,8	158,4
Bending radius, mm	142,5	145,5
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 TOS-P-16Y (1x16) 7kN

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 steel wire armor. The free space is filled with a hydrophobic gel between wires. The armor is covered with HDPE sheath.