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OKGTS – Direct Buried Single Tube Wire Armor



- 1. PE outer sheath*
- 2. Steel wire armor
- 3. Hydrophobic gel
- 4. Buffer tube
- 5. Hydrophobic gel
- 6. Optical fiber

Application

Optical cable is designed for direct buried 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 in case of damage by rodents danger.

Technical characteristics

Parameter	Value	
Tensile strength, kN	5	7
Number of optical fibers (up to 16 fibers)		
Cable diameter, mm	7,9	8,7
Cable weight, kg/km	101,9	135,9
Number of optical fibers (up to 24 fibers)		
Cable diameter, mm	8,1	8,7
Cable weight, kg/km	109,5	135,9
Crushing force, kN/cm	0,5	
Operating temperature	-50°C...+70°C	
Installation temperature	-30°C...+50°C	
Transportation and storage temperature	-50°C...+70°C	
Minimum bending radius	Not less than 15 cable diameters	
Factory length, km	4 km	

Technical characteristics of optical fiber

	Corning SMF 28 Ultra	Corning SMF28e+BB
Type of optical fiber	G.657A1 G.652D	G.657A1 G.652D
ITU-T recommendations		
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 OKGTS-08 G.652D 7kN

The cable consists of a single tube core with freely laid fibers of G.652D Standard, the maximum tensile strength is 7kN.