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OKTS – In Pipes, Loose Tube



- 1. PE outer sheath*
- 2. Strength element (fiberglass)
- 3. Buffer tube
- 4. Hydrophobic gel
- 5. 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 cable ducts, in pipes (including the blowing installation method), in blocks, in trays, in tunnels, in headers, on bridges and skyways, inside buildings and for indoor and aerial installation between supports and buildings.

Technical characteristics

Parameter	Value	
Tensile strength, kN	1	
Number of optical fibers (up to 4/8 fibers)	Up to 4	Up to 8
Cable diameter, mm	4,9	5,1
Cable weight, kg/km	20,5	21,4
Number of optical fibers (up to 12/16 fibers)	До 12	До 16
Cable diameter, mm	5,2	5,4
Cable weight, kg/km	22,5	23,6
Number of optical fibers (up to 24 fibers)	24	
Cable diameter, mm	5,6	
Cable weight, kg/km	25,3	
Crushing force, kN/sm	0,3	
Operating temperature	-40°C...+70°C	
Installation temperature	-30°C...+50°C (PE)/-10°C...+50°C(nf(A)-LS)	
Transportation and storage temperature	-40°C...+70°C	
Minimum bending radius	Not less than 10 cable diameters	
Factory length, km	3 km	

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 OKTS-08 G.652D 1kN

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