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OK8TS – Figure-8 Single Tube Steel Rope



- 1. PE outer sheath*
- 2. Suspended strength element (steel wire or steel rope)
- 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 aerial installation on overhead communication lines towers, power lines, lighting columns, between buildings; in cable ducts, in pipes, in blocks, in trays, in tunnels, in headers, on bridges and skyways, inside buildings.

Technical characteristics

Parameter	Value	
Number of optical fibers	2-12	16-24
Tensile strength (steel wire),kN	2,6	
Cable diameter, mm	3,8	3,8
Cable weight, kg/km	44,7	45,8
Tensile strength (steel rope), kN	6,0	
Cable diameter, mm	4,4	4,4
Cable weight, kg/km	54,3	55,4
Crushing force, kN/cm	0,3	
Operating temperature	-60°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	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 OK8TS-8G.652D 6kN

The cable consists of a single tube core with freely laid fibers of G.652D Standard, the maximum tensile strength is 6kN.