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OKK – In Duct Loose Tube Light Armor



- 1. PE Outer sheath*
- 2. Corrugated steel tape armor
- 3. Hydrophobic gel
- 4. Loose tube
- 5. Optical fiber
- 6. Central strength element (fiberglass rod)

* 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 trays, in blocks, in tunnels, in headers in case of damage probability by rodents.

Technical characteristics

Parameter	Value					
Tensile strength, kN	2,7					
Number of optical fibers	4-28	32-48	64	72	96	144
Cable diameter, mm	9,8	10,6	11,9	11,2	12,6	15,8
Cable weight, kg/km	103,4	115,2	139,4	123,7	154,8	226,9
Crushing force, kN/sm	0,3					
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

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 OKK-48G.652D 2,7kN

The optical cable for duct installation consists of a loose tube core, dielectric central element around which optical loose tubes with freely laid fiber of the G.652D Standard are twisted, the maximum tensile strength is 2,7 kN