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OKU– In Pipes Loose Tube

1. PR outer sheath*
2. Water swellable yarns
3. Loose tube
4. Optical fiber
5. Central strength element (fiberglass rod)

* It is possible to produce a cable with flame-retardant 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	4-24	32-48	64	72	96	144
Number of optical fibers	1,5					
Cable diameter, mm	9,0	9,5	10,7	9,8	11,1	13,9
Cable weight, kg/km	62,3	67,7	83,9	70,9	88,3	136,8
Tensile strength,kN	2					
Cable diameter, mm	9,0	9,5	10,8	9,8	11,2	14,0
Cable weight, kg/km	64,0	69,3	87,0	72,5	91,3	138,2
Tensile strength,kN	2,7					
Cable diameter, mm	9,2	9,8	10,9	10,0	11,4	14,1
Cable weight, kg/km	67,3	74,1	88,5	75,7	94,3	141,0
Crushing force, kN/sm	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	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 OKU-48G.652D 2,7kN

The optical cable universal modular construction, dielectric central element, around which optical modules with freely laid fiber of the G.652D Standard are twisted with a maximum allowable tensile force of 2,7 kN