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OKD-2D – Drop Flat Type Dielectric Single Tube



- 1. PE outer sheath
- 2. Dielectric strength element
- 3. Buffer tube
- 4. Hydrophobic gel
- 5. Optical fiber

Application

Optical cable type OKD-2D is designed for aerial installation (with particularly high requirements for resistance to external electromagnetic influences) on supports of overhead communication lines, railway network, power lines with a maximum electric field potential of up to 12kV, between buildings.

Technical characteristics

Parameter	Value				
Tensile strength, kN	0,8	1,4	2,4	3	4
Number of optical fibers	Up to 4	Up to 8	Up to 8	Up to 16	Up to 24
Cable diameter, mm	2,0 x 4,4	2,4 x 5,6	3,0 x 7,6	3,2 x 8,4	3,6 x 9,5
Cable weight, kg/km	10,3	16,3	26,9	31,7	41,2
Crushing force, kN/sm	1				
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	2 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 OKD-2D-08 G.657 A1 4kN

The optical cable consists of central optical module with fibers of G.657 A1 Standard, the maximum tensile strength is 4kN.