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DPOd – Figure-8 Loose Tube Dielectric Rod



- 1. PE outer sheath
- 2. Dielectric rod
- 3. Core filler
- 4. Loose tube
- 5. Hydrophobic gel
- 6. Optical fiber
- 7. Central strength element

Application

Optical cable is designed for suspension on overhead communication lines towers, contact network and railways auto-blocking, 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						
	Up to 16	Up to 32	Up to 48	Up to 64	Up to 72	Up to 96	Up to 144
Number of optical fibers	Up to 16	Up to 32	Up to 48	Up to 64	Up to 72	Up to 96	Up to 144
Tensile strength, kN	4						
Cable diameter, mm	8,6	8,9	9,3	9,8	10,4	11,4	13,8
Cable weight, kg/km	102,4	104,6	109,9	115,6	128,6	143,7	183,4
Tensile strength, kN	6						
Cable diameter, mm	8,6	8,9	9,3	9,8	10,4	11,4	13,8
Cable weight, kg/km	120,1	122,3	127,5	133,3	146,0	161,3	201,0
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						

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 DPOd-P-32Y (4x8) 6kN

The cable consists of a loose tube core with a central strength element made of a dielectric rod around which optical loose tubes with freely laid fibers are twisted. The free space is filled with a hydrophobic gel in the optical loose tubes and in the core. A suspension element is a dielectric rod. MDPE sheath is laid on the core and on the suspension element.