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DOTs – All Dialectic Self-Support Glass Yarns



- 1. Outer sheath
- 2. Fiberglass yarns
- 3. Water swellable yarn
- 3. Core filler
- 4. Optical 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, power facilities, between buildings; for direct ground 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.

Technical characteristics

Parameter	Value			
Number of optical fibers	Up to 48	Up to 72	Up to 96	Up to 144
Tensile strength, kN	2			
Cable diameter, mm	8,4	9,0	9,9	11,3
Cable weight, kg/km	54,7	61,9	72,5	93,6
Bending radius, mm	126,0	135,0	148,5	169,5
Tensile strength, kN	4			
Cable diameter, mm	11,1	11,7	12,4	12,9
Cable weight, kg/km	96,1	104,5	114,3	123,4
Bending radius, mm	166,5	175,5	186,0	193,5
Tensile strength, kN	7			
Cable diameter, mm	11,3	11,8	12,4	12,9
Cable weight, kg/km	100,4	105,9	114,3	123,4
Bending radius, mm	169,5	177,0	186,0	193,5
Tensile strength, kN	10			
Cable diameter, mm	11,7	12,2	12,6	13,2
Cable weight, kg/km	111,0	116,1	121,2	131,6
Bending radius, mm	175,5	183,0	189,0	198,0
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 км			

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 DOTs-P-48Y (6x8) 4kN

The cable consists of a loose tube core with a central strength element made of a dielectric rod with a spiral-twisted water blocking yarn around which optical loose tubes with freely laid fibers are twisted. The core is fastened with two winding threads with a water-blocking property. Fiberglass yarns and a MDPE sheath are laid on the core.

