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DPS – Direct Buried Loose Tube Double Jacket Wire Armor



- 1. Outer sheath
- 2. Steel wire armor
- 3. Hydrophobic gel
- 4. Intermediate PE sheath
- 5. Hydrophobic gel
- 4. Optical loose tube
- 5. Hydrophobic gel
- 6. Optical fiber
- 7. Central strength element

* 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 ground including swamps and shallow non-navigable river, in ducts, in pipes, in blocks, in trays, in tunnels, in headers, on bridges and skyways, between and inside buildings

Technical characteristics

Parameter	Value					
Number of optical fibers	Up to 16	Up to 32	Up to 48	Up to 64	Up to 72	Up to 96
Crushing force, kN/sm	0,4					
Tensile strength, kN	7					
Cable diameter, mm	12,4	12,6	13,0	13,2	14,2	14,2
Cable weight, kg/km	231,0	239,6	252,0	260,7	295,6	295,6
Bending radius, mm	186	189	195	198	312	213
Tensile strength, kN	10					
Cable diameter, mm	12,4	12,6	13,0	13,2	14,2	14,2
Cable weight, kg/km	231,0	239,6	252,0	260,7	295,6	295,6
Bending radius, mm	186	189	195	198	213	213
Crushing force, kN/sm	1					
Tensile strength, kN	40					
Cable diameter, mm	17,6	18,0	18,6	19,0	20,0	
Cable weight, kg/km	521,5	545,5	576,1	601,0	650,1	
Bending radius, mm	264,0	270	279	285	300	
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 DPS-P-48Y (6x8) 10kN

The cable consists of a loose tube core with a central strength element made of a dielectric 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. The core is covered with intermediate PE sheath. The intermediate PE sheath is spirally covered with the steel wire armor. The free space is filled with a hydrophobic gel between wires. The armor is covered with HDPE sheath.

