



## TPOm – Figure-8 Single Tube Steel Rope



- 1. PE outer sheath
- 2. Steel rope
- 3. Loose tube
- 4. Hydrophobic gel
- 5. Optical fiber

### 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				
Number of optical fibers	Up to 6	Up to 8	Up to 12	Up to 16	Up to 24
Tensile strength, kN	4				
Cable diameter, mm	6,2	6,3	6,5	6,7	7,0
Cable weight, kg/km	70,6	71,4	73,2	75,1	77,9
Tensile strength, kN	6				
Cable diameter, mm	6,2	6,3	6,5	6,7	7,0
Cable weight, kg/km	87,5	88,4	90,2	92,1	94,9
Tensile strength, kN	9				
Cable diameter, mm	6,2	6,3	6,5	6,7	7,0
Cable weight, kg/km	108,0	108,9	110,6	112,5	115,3
Tensile strength, kN	12				
Cable diameter, mm	6,2	6,3	6,5	6,7	7,0
Cable weight, kg/km	131,9	132,8	134,6	136,4	139,2
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 TPOm-P-12Y (1x12) 9kN

The cable consists of a single tube core with freely laid fibers. Free space is filled with a hydrophobic gel in the single tube. A suspension element is a steel rope. MDPE sheath is laid on the core and on the suspension element.