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OMV – Raiser Dielectric Rods Loose Tube



- 1. Cutter marks
- 2. Fiberglass rods
- 3. Sheath
- 4. Loose tube
- 5. Optical fiber

Application

Distribution cable for indoor installation with direct access to fibers.

Technical characteristics

Parameter	Value											
Number of optical fibers	Do 8	Do 12	Do 16	Do 24	Do 32	Do 40	Do 48	Do 64	Do 72	Do 96	Do 144	Do 288
Tensile strength, kN	400											
Cable diameter, mm	6,5	6,5	6,5	8,5	8,5	8,5	10,5	10,5	10,5	13,5	13,5	14,5
Cable weight, kg/km	39,4	40,4	41,3	56,7	59,3	61,3	77,4	81,2	81,0	130,8	141,0	160,9
Bending radius, mm	65	65	65	85	85	85	105	105	105	135	135	145
Crushing force, kN/sm	80											
Operating temperature	-30°C...+50°C											
Installation temperature	-10°C...+50°C											
Transportation and storage temperature	-50°C...+50°C											
Minimum bending radius	Not less than 10 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 OMV-ng(A)-HF-24Y (3x8) 400N

The cable consists of bundle of optical loose tubes with optical fibers. The cable sheath is flame retardant, with low smoke and gas emission, does not emit corrosive and gaseous products during combustion and decay, with low toxicity of combustion gases. In the cable sheath, two fiberglass rods are diametrically laid, which prevent axial torsion of the cable and perform the functions of strength elements.