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OMR – Distribution Aramid Yarns Loose Tube



Application

Distribution cable for indoor installation, in cable trays, in cable channels, cable ducts, pipes, blocks, tunnels performed as OMR-V, as well as for outdoor installation on the external facades of buildings, for suspension on overhead communication lines, power lines, lighting columns, between buildings performed as OMR-U.

Technical characteristics

Parameter	Value									
	До 8	До 12	До 16	До 24	До 36	До 48	До 64	До 72	До 96	До 144
Number of optical fibers										
Tensile strength, kN	400									
Cable diameter, mm	5,5	5,8	6,2	6,7	7,4	8,0	8,8	9,0	9,9	11,5
Cable weight, kg/km	30,6	33,4	37,2	42,9	49,1	55,7	66,6	67,8	78,8	99,1
Bending radius, mm	55	58	62	67	74	80	88	90	99	115
Tensile strength, kN	800									
Cable diameter, mm	6,0	6,2	6,6	7,1	7,7	8,3	9,1	9,3	10,1	11,6
Cable weight, kg/km	35,5	37,9	41,4	46,7	52,5	58,9	69,5	70,7	81,5	101,5
Bending radius, mm	60	62	66	71	77	83	91	93	101	116
Crushing force, kN/sm	0,1									
Operating temperature	-10°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 OMR-ng(A)-HF-24Y (3x8) 400N

The cable consists of bundle of optical loose tubes with optical fibers with aramid yarns layer. The cable sheath is flame retardant, halogen free, with low smoke and gas emission. Sheath of the cable for indoor installation is white. It is possible to produce any sheath color.