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OBR – Distribution Aramid Yarns Buffer



- 1. Sheath
- 2. Aramid threads
- 3. Buffer
- 4. Optical fiber

Application

Distribution cable for indoor installation, in cable trays, in cable channels, cable ducts, pipes, blocks, tunnels.

Technical characteristics

Parameter	Value									
	Up to 2	Up to 4	Up to 6	Up to 8	Up to 12	Up to 16	Up to 24	Up to 32	Up to 36	Up to 48
Number of optical fibers	Up to 2	Up to 4	Up to 6	Up to 8	Up to 12	Up to 16	Up to 24	Up to 32	Up to 36	Up to 48
Tensile strength, kN	400									
Crushing force, kN/sm	0,1									
Cable diameter, mm	4,8	5,3	5,7	6,1	6,8	7,4	8,3	10,3	10,8	12,0
Cable weight, kg/km	26,0	31,3	35,9	40,9	49,8	58,0	72,2	92,6	99,4	119,1
Bending radius, mm	48	53	57	61	68	74	83	103	108	120
Tensile strength, kN	800									
Crushing force, kN/sm	0,2									
Cable diameter, mm	5,1	5,6	6,0	6,3	6,9	7,5	8,5	10,5	11,0	12,1
Cable weight, kg/km	29,8	35,1	39,7	43,7	51,6	60,2	75,4	95,2	102,0	121,4
Bending radius, mm	51	56	60	63	69	75	85	105	110	121
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 OBR-ng(A)-HF-24Y (3x8) 400N

The cable consists of bundle of optical fibers in a buffer 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.