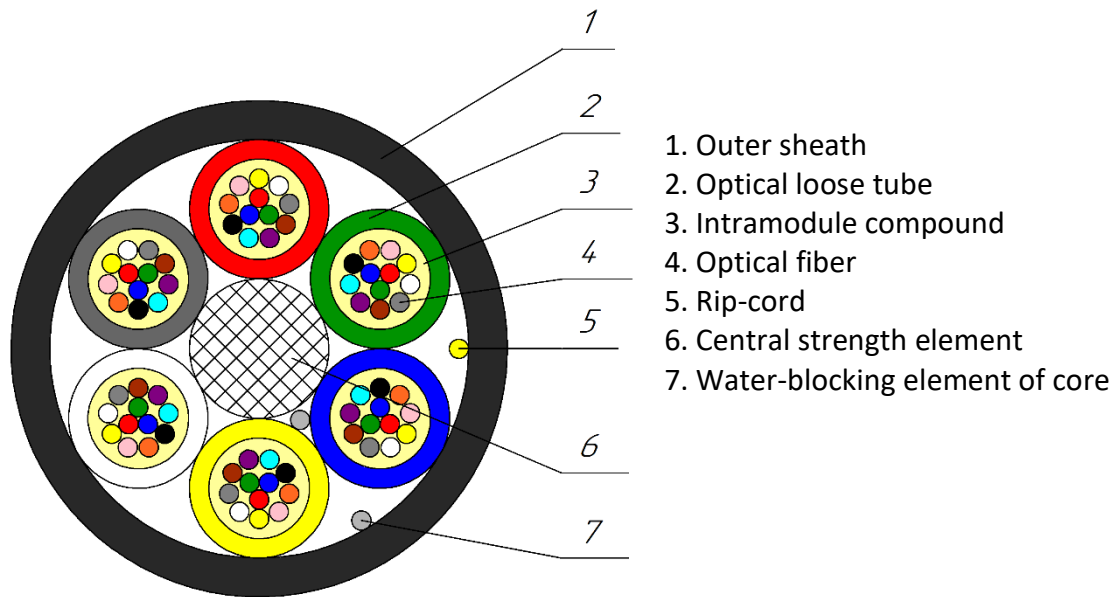


TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

Cable type	A-DQ(ZN)2Y 6x12-G.652.D/G.657.A1-UCF-1081
Cable formula	F+PBT+PE
Standards	IEC 60793, IEC 60794



1. Outer sheath
2. Optical loose tube
3. Intramodule compound
4. Optical fiber
5. Rip-cord
6. Central strength element
7. Water-blocking element of core

Cable construction	
Outer sheath	UV - resistant PE
Optical loose tube	1,7mm PBT Tube
Intramodule compound	Thixotropic compound
Optical Fiber	Ultra Corning [®] SMF-28 [®] Fiber according to ITU-T G.652.D and G.657.A1
Rip-cord	Synthetic yarn
Central strength element	Glass reinforced plastic 1,8mm FRP-E
Water-blocking element of core	Water-swellable yarn
Number of the elements in a layer	1+6
Average weight of 1 km of the cable, kg	34
Average outer diameter (D), mm	6,0±0,3

Coloring of fibers in loose tube (According to Customer's requirements color can be different)

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	slate	brown	violet	aqua	black	orange	pink

Coloring of optical loose tube (According to Customer's requirements color can be different)

1	2	3	4	5	6
red	green	blue	yellow	white	slate

Optical parameters	
Operation wavelength, nm	1310-1550
Attenuation coefficient at wavelength, dB/km, not more than	
1310 nm	0,36
1383 nm	0,35
1550 nm	0,22
Mechanical characteristics	
Calculated tensile strength, not less than, kN	
Static	0,4
Dynamic	1,0
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,12 (1200)
Resistance to axial torsion at angle $\pm 360^{\circ}$ on 2 m length cable	Resistant
Resistance to bends at angle $\pm 90^{\circ}$ with a radius equal to 20 nominal cable diameters	Resistant
Resistance to impact 5,0 J	Resistant
Operating temperature	from -40 to +70 °C
Installation temperature	from -15 to +70 °C
Storage and transportation temperature	from -40 to +70 °C
Resistance to water penetration	Water resistant
Relative humidity at +35° C, %	98
Cable factory length, km	5,0/6,0
Package	Drum №106 (1055x700x1055)/ Drum №10a (1055x900x1055)
Tolerance, %	$\pm 3,0$
Short lengths (customer approval)	Maximum 5%
The accuracy of marking	$\pm 0,5\%$