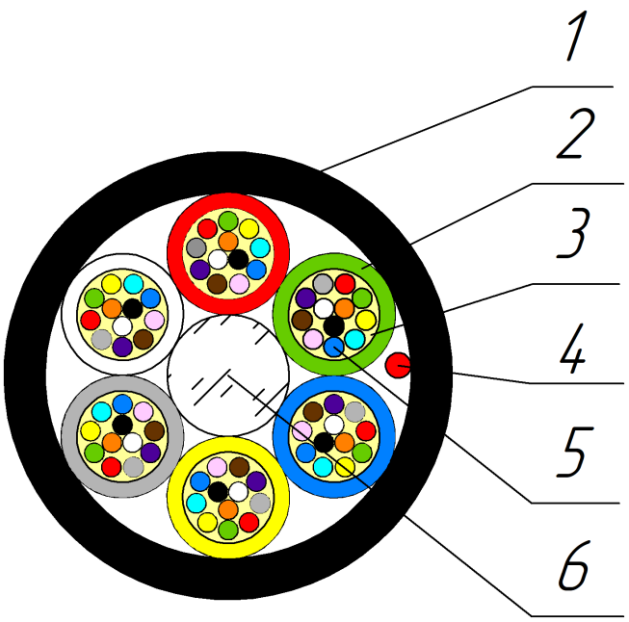
TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

Cable type	A-DQ(ZN)2Y 6x12-G.652.D/G.657.A1-UCF200-1038
Cable formula	F+PBT+PE
Standards	IEC 60793, IEC 60794



1. Outer sheath
2. Optical loose tube
3. Intramodule compound
4. Rip-cord
5. Optical Fiber
6. Central strength element

Cable construction	
Outer sheath	UV-resistant PE
Optical loose tube	1,2 mm PBT Tube
Intramodule compound	Thixotropic compound
Water-blocking element of core	Water-swellable yarn
Optical Fiber	Corning ® SMF-28® Ultra 200 Fiber according to ITU-T G.652.D and G.657.A1
Central strength element	Glass reinforced plastic 1,2 mm FRP-E
Rip-cord	Water-swellable yarn
Number of the elements in a layer	1+6
Average weight of 1 km of the cable, kg	17,2
Average outer diameter (D), mm	4,2±0,2

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 1550 nm	 0,36 0,22
Mechanical characteristics	
Calculated tensile strength, not less than, kN Dynamic	 0,6
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,05 (500)
Resistance to axial torsion at angle ± 360^0 on 4 m length cable	Resistant
Resistance to bends at angle ± 90^0 with a radius equal to 20 nominal cable diameters	Resistant
Resistance to impact 2,0 J	Resistant
Temperature range/Environment	
Resistance to water penetration	Water resistant
Operating temperature*	from -20 to +70 °C
Installation temperature	from -10 to +50 °C
Storage and transportation temperature	from -30 to +70 °C
Relative humidity at +35^0 C, %	98
Packaging	
Cable factory length, km	5,0/6,0
Package	Drum №8 (815x710x815)/ Drum №8 (815x710x815)
Tolerance, %	±3
Short lengths (customer approval)	Maximum 5%
The accuracy of marking, %	±0,5

*****- attenuation increment not more than 0,2 dB/km