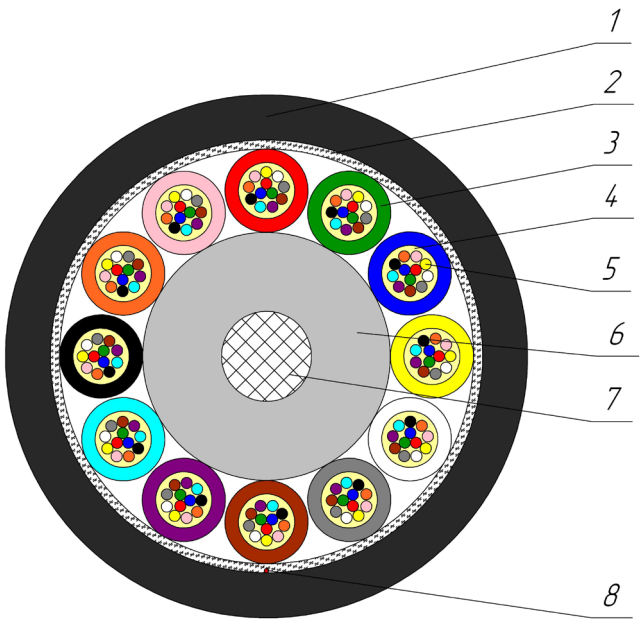
TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

Cable type A-DQ(ZN)B2Y-12x12-G.652.D-UCF-6305

Cable formula F-PBT+ FGA-PE



1. Outer sheath
2. Strength element of core
3. Optical loose tube
4. Intramodule compound
5. Optical Fiber
6. Insulation of central strength element
7. Central strength element
8. Rip-cord

Cable construction		
Outer sheath	UV-resistant PE	
Strength element of core	Water swellable glass yarn	
Optical loose tube	1,85mm PBT Tube	
Intramodule compound	Thixotropic compound	
Optical Fiber	Corning ® SMF-28® Ultra Optical Fiber according to ITU-T G.652.D and G.657.A1	
Insulation of central strength element	PE	
Central strength element	Glass reinforced plastic 2,0mm FRP-E with insulation up to 5,5mm	
Rip-cord	Synthetic yarn	
Coloring of fibers in loose tube (According to Customer's requirements color can be different)	Fiber №1 Fiber №2 Fiber №3 Fiber №4 Fiber №5 Fiber №6 Fiber №7 Fiber №8 Fiber №9 Fiber №10 Fiber №11 Fiber №12	Red Green Blue Yellow White Gray Brown Purple Aqua Black Orange Rose
Coloring of optical loose tube (According to Customer's requirements color can be different)	Loose tube №1 Loose tube №2 Loose tube №3 Loose tube №4	Red Green Blue Yellow

	Loose tube №5 Loose tube №6 Loose tube №7 Loose tube №8 Loose tube №9 Loose tube №10 Loose tube №11 Loose tube №12	White Gray Brown Purple Aqua Black Orange Rose
Number of the elements in a layer	1+12	
Average weight of 1 km of the cable, kg	132,5	
Average outer diameter (D), mm	11,6±0,3	
Optical parameters		
Operation wavelength, nm	1310-1550	
Attenuation coefficient at wavelength, dB/km, not more than 1310 nm 1383 nm 1550 nm	 0,36 0,35 0,22	
Mechanical characteristics		
Calculated tensile strength, not less than, kN Dynamic	 2,0	
Minimum bending radius	20D	
Short-term crush test, kN/cm (N/10cm)	0,2 (2000)	
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 5,0 J	Resistant	
Operating temperature	from -30 to +60 °C	
Installation temperature	from -10 to +50 °C	
Storage and transportation temperature	from -40 to +70 °C	
Resistance to water penetration	Water resistant	
Relative humidity at +35^0 C, %	98	
Cable factory length, km	5,0/6,0	
Package	Drum №14g (1455x1090x1455)/ Drum №17 (1765x940x1765)	
Tolerance, %	± 3,0	
Short lengths (customer approval)	Maximum 5%	
The accuracy of marking	±0,5%	