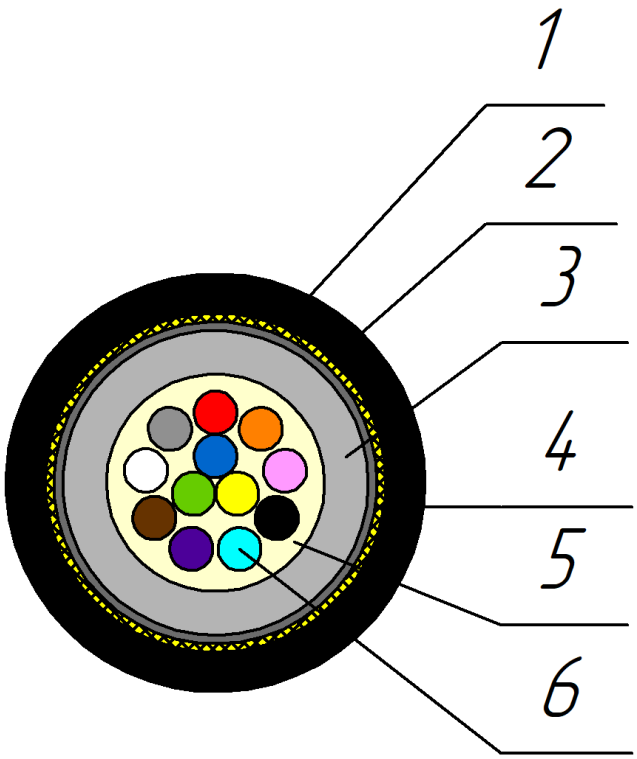
TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

Cable type	A-DQ(ZN)2Y-12-G.652.D/G.657.A1-UCF-7203
Cable formula	F-PC-PBT+Ar-PE
Standards	IEC 60793, IEC 60794



1. Outer sheath
2. Strength element of core
3. 1-st layer of optical loose-tube
4. 2-nd layer of optical loose-tube
5. Intramodule compound
6. Optical Fiber

Cable construction		
Outer sheath	UV-resistant PE	
Strength element of core	Aramid yarns	
1-st layer of optical loose-tube	PC	1,85 mm tube
2-nd layer of optical loose-tube	PBT	
Intramodule compound	Thixotropic compound	
Optical Fiber	Corning ® SMF-28® Ultra Optical Fiber according to ITU-T G.652.D and G.657.A1	
Average weight of 1 km of the cable, kg	5,8	
Average outer diameter (D), mm	2,4±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

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	 0,2
Minimum bending radius	15D
Short-term crush test, kN/cm (N/10cm)	0,1 (1000)
Resistance to axial torsion at angle ± 360^0 on 1 m length cable	Resistant
Resistance to bends at angle ± 90^0 with a radius equal to 15 nominal cable diameters	Resistant
Resistance to impact 2,0 J	Resistant
Temperature range/Environment	
Operating temperature	from -30 to +70 °C
Installation temperature	from -10 to +60 °C
Storage and transportation temperature	from -40 to +70 °C
Resistance to water penetration	Water resistant
Relative humidity at +35^0 C, %	98
Packaging	
Cable factory length, km	5,0/6,0
Package	Coil ОККО №1 (490x455x490)/ Coil ОККО №1 (490x455x490)
Tolerance, %	± 3,0
Short lengths (customer approval)	Maximum 5%
The accuracy of marking	±0,5%