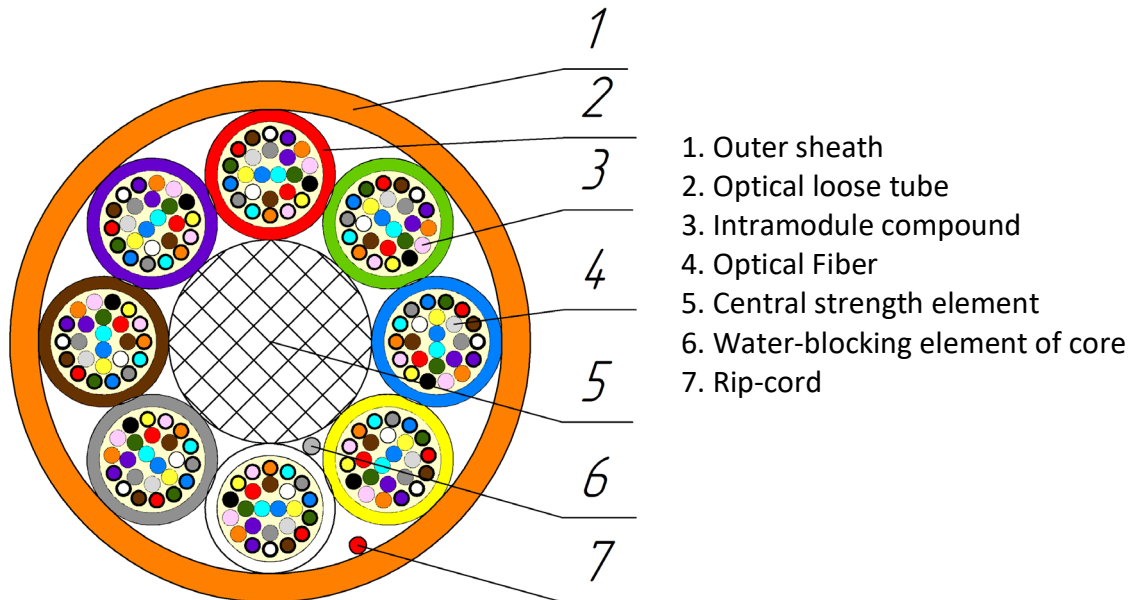





















## PRELIMINARY TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

Cable type	A-DQ(ZN)2Y 8x24-G.652.D/G.657.A1-UCF200-exp-10135
Cable formula	F-PBT-PE
Standards	IEC 60793, IEC 60794





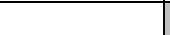





Cable construction	
Outer sheath	UV-resistant PE
Optical loose tube	1,6 mm PBT Tube
Intramodule compound	Thixotropic compound
Optical Fiber	Corning <sup>®</sup> SMF-28 <sup>®</sup> Ultra 200 Fiber according to ITU-T G.652.D and G.657.A1
Water-blocking element of core	Water-swellaable yarn
Central strength element	Glass reinforced plastic 2,5 mm FRP-E
Rip-cord	Water-swellaable yarn
Number of the elements in a layer	1+8
Average weight of 1 km of the cable, kg	41,7
Average outer diameter (D), mm	6,4±0,2

Coloring of fibers in loose tube (According to Customer's requirements color can be different). M-fiber with black ring mark.

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	slate	brown	violet	aqua	black	orange	pink
											
13	14	15	16	17	18	19	20	21	22	23	24
red+m	green+m	blue+m	yellow+m	white+m	slate+m	brown+m	violet+m	aqua+m	transparent	orange+m	pink+m
											

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

1	2	3	4	5	6	7	8
red	green	blue	yellow	white	slate	brown	violet
							

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	
Dynamic	1,5
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,03 (300)
Resistance to axial torsion at angle $\pm 360^\circ$ on 4 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 2,0 J	Resistant
Temperature range / Environment	
Operating temperature	from -30 to +70 °C
Installation temperature	from -15 to +50 °C
Storage and transportation temperature	from -30 to +70 °C
Resistance to water penetration	Water resistant
Relative humidity at +35° C, %	98
Packaging	
Cable factory length, km	6,0/12,0
Package	Drum №10a (1055x680x1055)/ Drum №14 (1455x910x1455)
Tolerance, %	$\pm 3,0$
Short lengths (customer approval)	Maximum 5%
The accuracy of marking	$\pm 0,5\%$