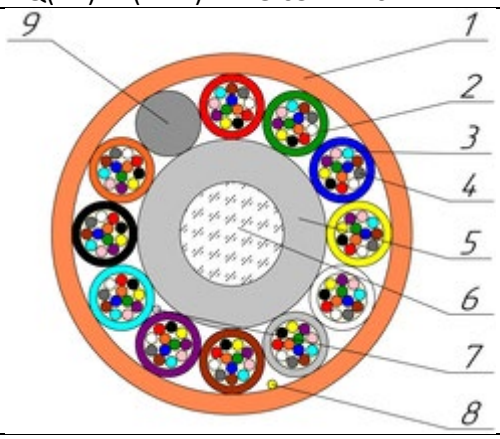
TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

1. Cable construction

Cable type	A-DQ(ZN)4Y (1-12)x12-G.652.D-1077



Cable construction
1. Outer sheath: PA
2. Optical loose tube: 1,4mm PBT Tube
3. Intramodule compound: Thixotropic compound
4. Optical Fiber:Single-mode Fiber according to ITU-T G.652.D
5. Insulation of central strength element: PE
6. Central strength element: Glass reinforced plastic 2,5mm FRP-E with insulation up to 4,0 mm
7. Water-blocking element of core: Water-swellable yarn
8. Rip-cord: Water-swellable yarn
9. Core filler: PE

Temperature ranges	Storage and transportation temperature	Installation temperature	Operating temperature
	from -40°C to +70°C	from -15°C to +50°C	from -30°C to +60°C
Resistance to water penetration	Water resistant		
Relative humidity at +35^0 C, %	98		
Outer diameter, mm	7,6±0,2		
Average weight of 1 km of the cable, kg	49,5±5%		

2. Mechanical characteristics

Calculated tensile strength, not less than[1], kN Dynamic	3
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,1 (1000)
Resistance to axial torsion at angle ±360° on 2 m length cable	Resistant
Resistance to bends at angle ± 90^0 with a radius equal to 20 nominal cable diameters	Resistant
Resistance to impact 10 J	Resistant

[1] Tensile strength value is for maximum number of fibers design

3. Packaging and marking

Cable factory length, km	6
Package	Drum №12a (1221x855x1221)
Tolerance, %	±3,0
Short lengths (customer approval)	Maximum 5%
Marking method	Inkjet printing
The accuracy of marking, %	±0,5

4. Coloring

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). Core-filler color is natural.

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

5. Product data

Fiber count	144
Loose tubes x fibers	12x12