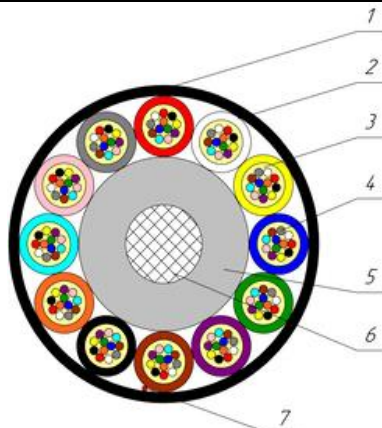


## TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

### Cable construction

Cable type	A-DQ(ZN)2Y-(1-12)x12/A-DQ(ZN)4Y-(1-12)x12-1037		
Standards	IEC 60793, IEC 60794		
			
<p>Cable construction</p> <ol style="list-style-type: none"> <li>1. Outer sheath: UV-resistant PE/PA</li> <li>2. Optical loose tube: PBT Tube</li> <li>3. Intramodule compound: Thixotropic compound</li> <li>4. Optical Fiber: Single-mode Fiber<sup>1</sup></li> <li>5. Insulation of central strength element: PE</li> <li>6. Central strength element: Glass reinforced plastic FRP-E with insulation</li> <li>7. Rip-cord: Water-swellaable yarn</li> </ol>			
Temperature ranges	Storage and transportation temperature	Installation temperature	Operating temperature
	from -40 to +70 °C	from -10 to +50 °C	from -40 to +70 °C
Resistance to water penetration	Water resistant		
Relative humidity at +35 <sup>0</sup> C, %	98		
Outer diameter, mm	9,1±0,2		
Average weight of 1 km of the cable, kg	77±5%		

### Mechanical characteristics

Calculated tensile strength, not less than <sup>2</sup> , kN	
Dynamic	2,5
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,175 (1750)
Resistance to axial torsion at angle ±360° on 4 m length cable	Resistant
Resistance to bends at angle ± 90 <sup>0</sup> with a radius equal to 20 nominal cable diameters	Resistant
Resistance to impact 2 J	Resistant

<sup>1</sup> Can be used:

- 250 μm Single-mode Fiber according to ITU-T G.652.D or G.652.D/G.657.A1  
 - 200 μm Single-mode Fiber according to ITU-T G.652.D/G.657.A1

<sup>2</sup> Tensile strength value is for maximum number of fibers design

## Packaging and marking

Cable factory length, km	6
Package	Drum №14 (1400x815x1400)
Tolerance, %	±3,0
Short lengths (customer approval)	Maximum 5%
Marking method	Inkjet printing
The accuracy of marking, %	±0,5

## 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

## Cable sheath coloring

Sheath material	PE	PA
Color	black	orange

## Product data

Fiber count	12	24	36	48	72	96	144
Loose tubes x fibers	1x12	2x12	3x12	4x12	6x12	8x12	12x12