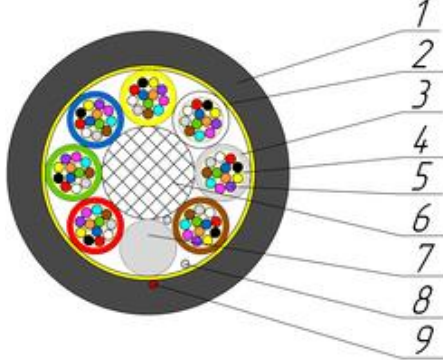


PRELIMINARY TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

1. Cable construction

Cable type	A-DQ(ZN)B2Y-(1-8)x12-250-652D/657A1-7009		
<div></div>			
Cable construction			
<div><div>1. Outer sheath: UV-resistant PE</div><div>2. Strength element of core: Aramid yarns</div><div>3. Optical loose tube: 1,4 mm PBT Tube</div><div>4. Intramodule compound: Thixotropic compound</div><div>5. Optical Fiber: Single-mode Fiber according to ITU-T G.652.D and G.657.A1</div><div>6. Central strength element: Glass reinforced plastic 2,3 mm FRP-E</div><div>7. Core filler: PE</div><div>8. Water-blocking element: Water-swellaable yarn</div><div>9. Rip-cord: Synthetic yarn</div></div>			
Temperature ranges	Storage and transportation temperature	Installation temperature	Operating temperature
	from -20 to +60 °C	from -10 to +60 °C	from -20 to +60 °C
Resistance to water penetration	Water resistant		
Relative humidity at +35 ⁰ C, %	98		
Outer diameter, mm	7,0±0,2		
Average weight of 1 km of the cable, kg	40±5%		

2. Mechanical characteristics

Calculated tensile strength, not less than ¹ , kN	
Dynamic	2,5
Minimum bending radius	12D
Short-term crush test, kN/cm (N/10cm)	0,2 (2000)
Resistance to axial torsion at angle ±360° on 2 m length cable	Resistant
Resistance to bends at angle ± 90° with a radius equal to 20 nominal cable diameters	Resistant
Resistance to impact 2 J	Resistant

¹ Tensile strength value is for maximum number of fibers design

3. Packaging and marking

Cable factory length, km	6
Package	Drum №14 (1401x813x1401)
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
red	green	blue	yellow	white	slate	brown	violet

5. Product data

Fiber count	12	32	48	96
Loose tubes x fibers	1x12	3x12	4x12	8x12