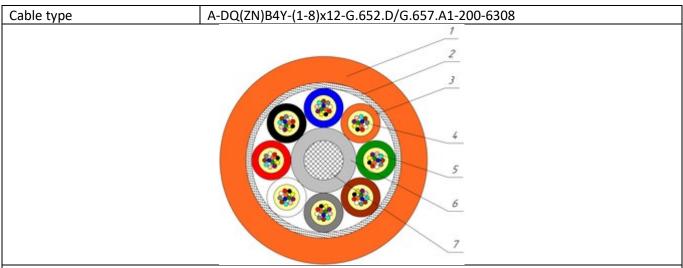


TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

1. Cable construction



Cable construction

1. Outer sheath: PA

2.Strength element of core: Water swellable glass yarn

3. Optical loose tube: 2,3mm PBT Tube

4. Intramodule compound: Thixotropic compound

5. Optical Fiber: 200 mkm Single-mode Fiber according to ITU-T G.652.D and G.657.A1

6. Insulation of central strength element: PE

7. Central strength element: Glass reinforced plastic 2,6mm FRP-E with insulation up to 3,7mm

Temperature ranges	Storage and transportation	Installation	Operating				
	temperature	temperature	temperature				
	from -40 to +70 °C	from -10 to +50 °C	from -40 to +60 °C				
Resistance to water	Water resistant						
penetration							
Relative humidity at +35° C, %		98					
Outer diameter, mm		12,1±0,2					
Average weight of 1 km of the	124±5%						
cable, kg							

2. Mechanical characteristics

Calculated tensile strength, not less than ¹ , kN Dynamic	3,5
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,3 (3000)
Resistance to axial torsion at angle ±360° on 4 m length cable	Resistant
Resistance to bends at angle $\pm 90^{\circ}$ with a radius equal to 20 nominal	Resistant
cable diameters	
Resistance to impact 10 J	Resistant

 $^{^{\}rm 1}$ Tensile strength value is for maximum number of fibers design

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3. Packaging and marking

Cable factory length, km	6		
Package	Drum №17 (1715x955x1715)		
Tolerance, %	±3,0		
Short lengths (customer approval)	Maximum 5%		
Marking method	Inkjet printing		
The accuracy of marking, %	±0,5		

4. Coloring

Coloring	Coloring of fibers in loose tube (According to Customer's requirements color can be different).										
1	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	1 2 3 4 5 6 7 8							
red	green	blue	yellow	white	slate	brown	violet	

5. Product data

Fiber count	24	48	72	96
Loose tubes x fibers	2x12	4x12	6x12	8x12