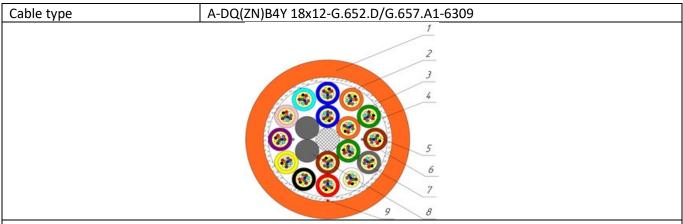


TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

1. Cable construction



Cable construction

1. Outer sheath: PA

2. Strength element of core: Water swellable glass yarn

3. Optical loose tube: 2,0mm PBT Tube

4. Intramodule compound: Thixotropic compound

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

6. Water-blocking element of core: Water-swellable yarn

7. Central strength element: Glass reinforced plastic 2,0mm FRP-E

8. Core filler: PE

9. Rip-cord: Water-swellable yarn

Temperature ranges	Storage and transportation	Installation	Operating			
	temperature	temperature	temperature			
	from -40 to +70 °C	from -15 to +50 °C	from -30 to +70 °C			
Resistance to water	Water resistant					
penetration						
Relative humidity at +35° C, %	98					
Outer diameter, mm	13,8±0,2					
Average weight of 1 km of the	153±5%					
cable, kg						

2. Mechanical characteristics

Calculated tensile strength, not less than ¹ , kN	3	
Dynamic	3	
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 15 J	Resistant	

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



3. Packaging and marking

Cable factory length, km	6		
Package	Drum №18b (1820x1375x1820)		
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	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. Layer 1 Layer2 5 3 2 3 4 6 1 2 4 5 1 6 blue yellow white slate blue yellow white slate red green red green Layer 2 7 8 9 10 11 12 black brown violet aqua orange pink

5. Product data

Fiber count	216
Loose tubes x fibers	18x12