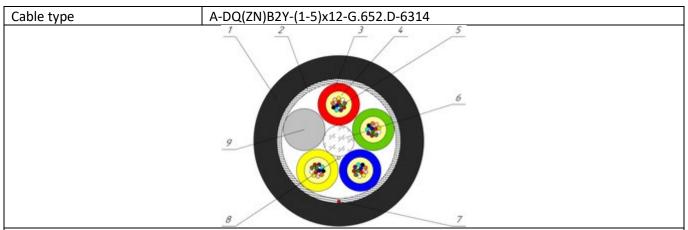


TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

1. Cable construction



Cable construction

- 1. Outer sheath: UV-resistant PE
- 2. Peripheral water-blocking strength element: Water swellable glass yarn
- 3. Optical loose tube: 2,7mm PBT Tube
- 4. Intramodule compound: Thixotropic compound
- 5. Optical Fiber: Single-mode Fibre according to ITU-T G.652.D
- 6. Central strength element: Glass reinforced plastic 2,0mm FRP-E
- 7. Rip-cord: Water-swellable yarn
- 8. Water-blocking element of core: Water-swellable yarn
- 9. Core filler: PE

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	10,3±0,2					
Average weight of 1 km of the	82±5%					
cable, kg						

2. Mechanical characteristics

Calculated tensile strength, not less than ¹ , kN	4	
Dynamic		
Minimum bending radius	20D	
Short-term crush test, kN/cm (N/10cm)	0,5 (5000)	
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	

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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 №14g (1401x1013x1401)		
Tolerance, %	±3,0		
Short lengths (customer approval)	Maximum 5%		
Marking method	Inkjet printing		
The accuracy of marking, %	±0,5		

4. Coloring

Co	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		
red	green	blue	yellow	white		

5. Product data

Fiber count	12	24	48	60
Loose tubes x fibers	1x12	2x12	4x12	5x12