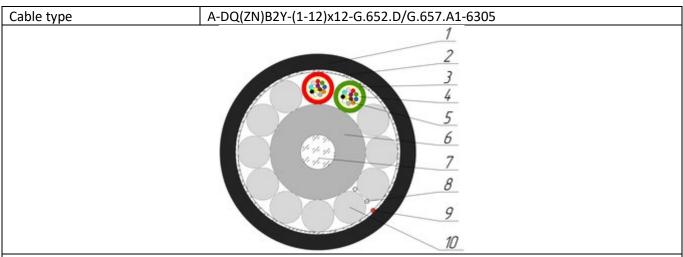


TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

1. Cable construction



Cable construction

1. Outer sheath: UV-resistant PE

2.Strength element of core: Water swellable glass yarn

3. Optical loose tube: 1,85mm 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. Insulation of central strength element: PE

7. Central strength element: Glass reinforced plastic 2,0mm FRP-E with insulation up to 5,5mm

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

9. Rip-cord: Water-swellable yarn

10. Core filler: PE

Temperature ranges	Storage and transportation	Installation	Operating				
	temperature	temperature	temperature				
	from -40 to +70 °C	from -10 to +50 °C	from -30 to +60 °C				
Resistance to water	Water resistant						
penetration							
Relative humidity at +35° C, %	98						
Outer diameter, mm		11,6±0,2					
Average weight of 1 km of the	105±5%						
cable, kg							

2. Mechanical characteristics

Calculated tensile strength, not less than ¹ , kN Dynamic	3
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,2 (2000)
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 5 J	Resistant

 $^{^{\}rm 1}$ 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

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							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

5. Product data

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