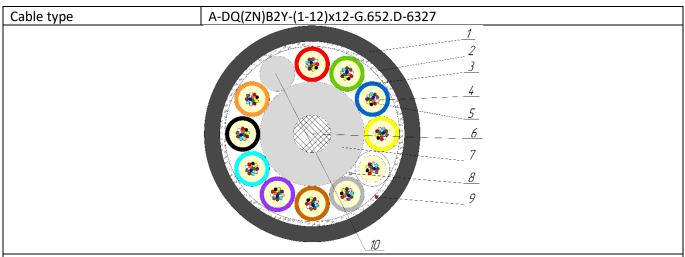


### **TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE**

#### 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: 2,6mm PBT Tube

4. Intramodule compound: Thixotropic compound

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

6. Central strength element: Glass reinforced plastic 2,8mm FRP-E with insulation up to 7,7 mm

7. Insulation of central strength element: PE

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

9. Rip-cord: Synthetic yarn

10. Core filler: PE

201 00101111011112						
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		16,0±0,2				
Average weight of 1 km of the	193±5%					
cable, kg						

#### 2. Mechanical characteristics

Calculated tensile strength, not less than <sup>1</sup> , kN Dynamic	7
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 $\pm90^{\circ}$ with a radius equal to 20 nominal cable diameters	Resistant
Resistance to impact 10 J	Resistant

 $<sup>^{1}\,\</sup>mbox{Tensile}$  strength value is for maximum number of fibers design

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# 3. Packaging and marking

Cable factory length, km	6
Package	Drum №18a (1870x1370x1870)
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	60	72	84	96	144
Loose tubes x fibers	1x12	2x12	4x12	5x12	6x12	7x12	8x12	12x12