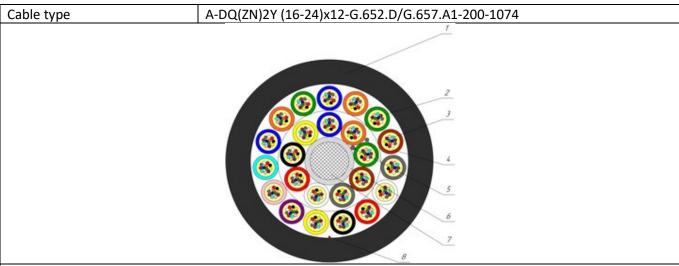


#### **TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE**

# 1. Cable construction



#### Cable construction

1. Outer sheath: UV-resistant PE

2. Optical loose tube: 1,95mm PBT Tube

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

4. Intramodule compound: Thixotropic compound

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

6. Insulation of central strength element:PE

7. Central strength element: Glass reinforced plastic 2,6mm FRP-E with insulation up to 3,8mm

8. Rip-cord: Water-swellable yarn

Temperature ranges	Storage and transportation	Installation	Operating					
	temperature	temperature	temperature					
	from -40 to +70 °C	from -5 to +50 °C	from -30 to +70 °C					
Resistance to water	Water resistant							
penetration								
Relative humidity at +35° C, %	98							
Outer diameter, mm	13,75±0,2							
Average weight of 1 km of the	130±5%							
cable, kg								

# 2. Mechanical characteristics

Calculated tensile strength, not less than <sup>1</sup> , kN 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 10 J	Resistant

 $<sup>^{\</sup>rm 1}$  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 №18 (1820x1175x1820)		
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
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. "+m"- denotes single black stripe marking via co-extrusion, white stripe marking for black loose tube.

Layer 1									Layer 2		
1	2	3	4	5	6	7	8	9	1	2	3
red	green	blue	yellow	white	slate	brown	violet	aqua	red	green	blue
	Layer 2										
4	5	6	7	8	9	10	11	12	13	14	15

#### 5. Product data

Fiber count	192	216	288
Loose tubes x fibers	16x12	18x12	24x12