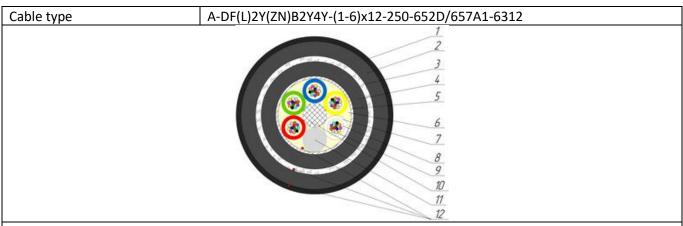


## PRELIMINARY TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

#### 1. Cable construction



#### Cable construction

Outer sheath: UV-resistant PA
Inner sheath: UV-resistant PE

3. Peripheral water-blocking strength element: Water swellable glass yarn

4. Inner sheath: UV-resistant PE

5. Armoring: Aluminum polymer tape

6. Water blocking element of core: Water blocking compound

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

8. Intramodule compound: Thixotropic compound

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

10. Central strength element: Glass reinforced plastic 2,0 mm

11. Core filler: PE

12. Rip cord: Synthetic yarn

Temperature ranges	Storage and transportation	Installation	Operating			
	temperature	temperature	temperature			
	from -40 to +70 °C	from -40 to +70 °C				
Resistance to water penetration	Water resistant					
Relative humidity at +35° C, %	98					
Outer diameter, mm	12,9±0,2					
Average weight of 1 km of the	129±5%					
cable, kg						

#### 2. Mechanical characteristics

Calculated tensile strength, not less than <sup>1</sup> , kN	
Dynamic	3,3
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>lt;sup>1</sup> 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 №17 (1715x955x1715)		
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).									
1	1 2 3 4 5 6								
red	green	blue	yellow	white	slate				

## 5. Product data

Fiber count	12	24	36	48	72
Loose tubes x fibers	1x12	2x12	3x12	4x12	6x12