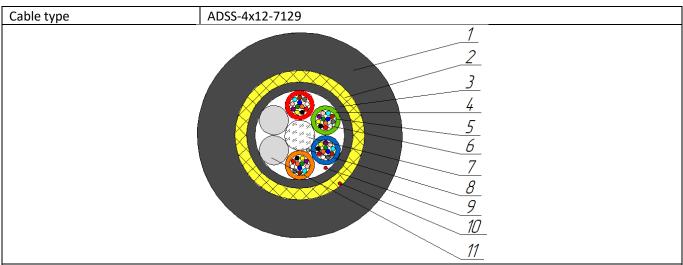


PRELIMINARY TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

Cable construction



Cable construction

1. Outer sheath: UV-resistant PE

2. Peripheral strength element: Aramid yarns

3. Inner sheath: UV-resistant PE4. Optical loose tube: PBT Tube

5. Intramodule compound: Thixotropic compound

6. Optical Fiber: Single-mode Fiber according to ITU-T G.652.D or G.652.D/G.657.A1

7. Central strength element: Glass reinforced plastic FRP-E8. Water-blocking element of core: Water-swellable yarn

9. Rip-cord: Water-swellable yarn

10. Rip-cord: Synthetic yarn

11. Core filler: PE

Temperature ranges	Storage and transportation	Installation	Operating temperature	
	temperature	temperature		
	from -30 to +70 °C from -15 to +50 °C		from -20 to +70 °C	
Resistance to water penetration				
Relative humidity at +35° C, %				
Outer diameter, mm				
Average weight of 1 km of the	100±5%			
cable, kg				

Mechanical characteristics

Calculated tensile strength, not less than ¹ , kN	
Dynamic	7
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,1 (1000)
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

¹ Tensile strength value is for maximum number of fibers design

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Packaging and marking

Cable factory length, km	6	
Package	Drum №17 (1700x965x1700)	
Tolerance, %	±3,0	
Short lengths (customer approval)	Maximum 5%	
Marking method	Inkjet printing	
The accuracy of marking, %	±0,5	

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.						
1 2 3 4 red green blue yellow						

Product data

Fiber count	48
Loose tubes x fibers	4x12

Suspension characteristics

•							
Cable sag, %	Climatic conditions for ice and wind						
	Wind speed 25 m/s,	Wind speed 29 m/s,	Wind speed 32 m/s,	Wind speed 36 m/s,			
Ice thickness 10 mm		Ice thickness 15 mm Ice thickness 20 m		Ice thickness 25 mm			
	Span distance, m						
2	120	75	50	35			

Recommended tension clamp: GSDE AR 1150 (produced by TELENCO) Recommended suspension clamp: GSHS AR 1150 (produced by TELENCO)