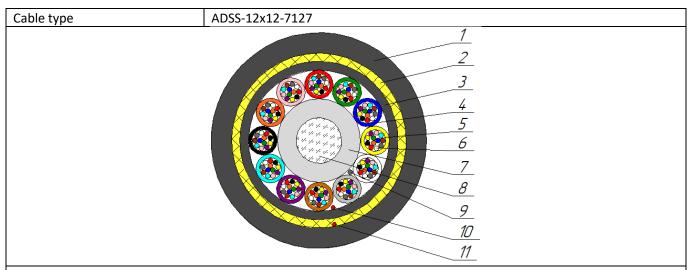


PRELIMINARY TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

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. Insulation of central strength element: PE

8. Water-blocking element of core: Water-swellable yarn9. Central strength element: Glass reinforced plastic FRP-E

10. Rip-cord: Water-swellable yarn

11. Rip-cord: Synthetic yarn

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		Water resistant			
Relative humidity at +35° C, %		98	98		
Outer diameter, mm		13±0,3			
Average weight of 1 km of the	127±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 ± 90° 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

Colorir	Coloring of optical loose tube (According to Customer's requirements color can be different). Core-filler color is										
natural.											
1	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

Product data

Fiber count	144
Loose tubes x fibers	12x12

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 25 mm					
		Span dis	tance, m					
2 120		75	50	35				

Recommended tension clamp: GSDE AR 1250 (produced by TELENCO) Recommended suspension clamp: GSHS AR 1250 (produced by TELENCO)