

PRELIMINARY TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

Cable construction

Cable type	ADSS-12x12-7127		
Cable construction <ol style="list-style-type: none"> 1. Outer sheath: UV-resistant PE 2. Peripheral strength element: Aramid yarns 3. Inner sheath: UV-resistant PE 4. 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 yarn 9. Central strength element: Glass reinforced plastic FRP-E 10. Rip-cord: Water-swellable yarn 11. Rip-cord: Synthetic yarn 			
Temperature ranges	Storage and transportation temperature	Installation temperature	Operating 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		
Outer diameter, mm	13±0,3		
Average weight of 1 km of the cable, kg	127±5%		

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 cable diameters	Resistant
Resistance to impact 10 J	Resistant

¹ Tensile strength value is for maximum number of fibers design

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	5	6	7	8	9	10	11	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, Ice thickness 10 mm	Wind speed 29 m/s, Ice thickness 15 mm	Wind speed 32 m/s, Ice thickness 20 mm	Wind speed 36 m/s, Ice thickness 25 mm
	Span distance, m			
2	120	75	50	35

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

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