

PRELIMINARY TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

Cable construction

Cable type	A-DSQ(ZN)(SR)2Y-(2-5)x12+Cu2Y 1x2x0.64-2040
Standards	IEC 60793, IEC 60794
	1 2 3 4 5 6 7 8

Cable construction

Outer sheath: UV-resistant PE
Tape armor: Corrugated steel tape

3. Optical loose tube: PBT Tube

4. Intramodule compound: Thixotropic compound

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

6. Rip-cord: Synthetic yarn

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

9. Twisted pair: Cu with PE insulation

Temperature ranges	Storage and transportation	Installation	Operating	
	temperature	temperature	temperature	
	from -30 to +70 °C	from -10 to +50 °C	from -20 to +70 °C	
Resistance to water		Water resistant		
penetration				
Relative humidity at +35° C, %		98		
Outer diameter, mm		11,3±0,2		
Average weight of 1 km of the	123±5%			
cable, kg				

Mechanical characteristics

Calculated tensile strength, not less than ¹ , kN	
Dynamic	3,5
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,25 (2500)
Resistance to axial torsion at angle ±180° on 2 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 15 J	Resistant

¹ Tensile strength value is for maximum number of fibers design



Electrical characteristics

Test voltage conductor-conductor, V	1000
Maximum operation voltage, V	250
Nominal capacitance between conductors, nF/km	50±5
Nominal conductor DC resistance at 20°C, Ohms/km	65±4

Packaging and marking

Cable factory length, km	6	
Package	Drum №14g (1400x1015x1400)	
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					
red	green	blue	yellow	white	

Coloring wires in a twisted pair (According to Customer's requirements color can be different)				
1 2				
white blue				

Product data

Fiber count	24	48	60
Loose tubes x fibers	2x12	4x12	5x12