

## TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

### 1. Cable construction

Cable type	A-D2Y-(6-12)-250-652D/657A1-7212		
<b>Cable construction</b> 1. Outer sheath: UV-resistant PE 2. Strength element of core: Aramid yarns 3. The first layer of the loose tube: PC 4. The second layer of the loose tube: PBT Optical loose tube: 1,7 mm PBT\PC Tube 5. Intramodule compound: Thixotropic compound 6. Optical Fiber: Single-mode Fiber according to ITU-T G.652.D and G.657.A1			
Temperature ranges	Storage and transportation temperature	Installation temperature	Operating temperature
	from -40 to +70 °C	from -10 to +60 °C	from -30 to +70 °C
Resistance to water penetration	Water resistant		
Relative humidity at +35 <sup>0</sup> C, %	98		
Outer diameter, mm	2,0±0,1		
Average weight of 1 km of the cable, kg	4±5%		

### 2. Mechanical characteristics

Calculated tensile strength, not less than <sup>1</sup> , kN	
Dynamic	0,1
Minimum bending radius	15D
Short-term crush test, kN/cm (N/10cm)	0,1 (1000)
Resistance to axial torsion at angle ±360° on 1 m length cable	Resistant
Resistance to bends at angle ± 90 <sup>0</sup> with a radius equal to 15 nominal cable diameters	Resistant
Resistance to impact 1 J	Resistant

<sup>1</sup> Tensile strength value is for maximum number of fibers design

### 3. Packaging and marking

Cable factory length, km	6
Package	Coil OKKO №1 (495x445x495)
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
red	green	blue	yellow	white	slate	brown	violet	aqua	black	orange	pink

### 5. Product data

Fiber count	6	12
Loose tubes x fibers	1x6	1x12