

## TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

### Cable construction

Cable type	A-DQ(ZN)2Y 8x24/ A-DQ(ZN)4Y 8x24-10137		
<b>Cable construction</b> 1. Outer sheath:UV-resistant PE/PA 2. Optical loose tube: PBT Tube 3. Intramodule compound: Thixotropic compound 4. Optical Fiber: Single-mode Fibre <sup>1</sup> 5. Insulation of central strength element:PE 6. Central strength element: Glass reinforced plastic FRP-E with insulation 7. Water-blocking element of core: Water-swellaable yarn 8. Rip-cord: Water-swellaable yarn			
Temperature ranges	Storage and transportation temperature	Installation temperature	Operating temperature
	from -30 to +70 °C	from -15 to +50 °C	from -30 to +70 °C
Resistance to water penetration	Water resistant		
Relative humidity at +35 <sup>o</sup> C, %	98		
Outer diameter, mm	7,6±0,2		
Average weight of 1 km of the cable, kg	52±5%		

### Mechanical characteristics

Calculated tensile strength, not less than <sup>2</sup> , kN	
Dynamic	2,5
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,05 (500)
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 2 J	Resistant

<sup>1</sup> Can be used:

-250 µm Single-mode Fiber according to ITU-T G.652.D or G.652.D/G.657.A1

-200 µm Single-mode Fiber according to ITU-T G.652.D/G.657.A1

<sup>2</sup> Tensile strength value is for maximum number of fibers design

## Packaging and marking

Cable factory length, km	6
Package	Drum №12a (1200x855x1200)
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). M-fiber with black ring mark.											
1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	slate	brown	violet	aqua	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red+m	green+m	blue+m	yellow+m	white+m	slate+m	brown+m	violet+m	aqua+m	transparent	orange+m	pink+m

Coloring of optical loose tube (According to Customer's requirements color can be different).							
1	2	3	4	5	6	7	8
red	green	blue	yellow	white	slate	brown	violet

Cable sheath coloring		
Sheath material	PE	PA
Color	black	orange

## Product data

Fiber count	192
Loose tubes x fibers	8x24