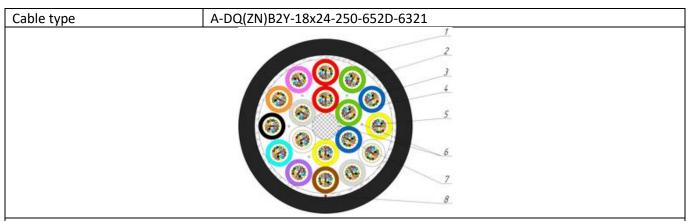


PRELIMINARY TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

1. Cable construction



Cable construction

1. Outer sheath: UV-resistant PE

2. Peripheral water-blocking strength element: Water swellable glass yarn

3. Optical loose tube: 2,8mm PBT Tube

4. Optical Fiber: Single-mode Fiber according to ITU-T G.652.D

5. Intramodule compound: Thixotropic compound

6. Water-blocking element of core: Water-swellable yarn

7. Central strength element: Glass reinforced plastic 2,8mm FRP-E

8. Rip-cord: Synthetic yarn

Temperature ranges	Storage and transportation	Installation	Operating		
	temperature	temperature	temperature		
	from -40 to +70 °C	from -10 to +50 °C	from -40 to +70 °C		
Resistance to water		Water resistant			
penetration					
Relative humidity at +35° C, %		98			
Outer diameter, mm		18,2±0,2			
Average weight of 1 km of the		243±5%			
cable, kg					

2. Mechanical characteristics

Calculated tensile strength, not less than¹, kN

Dynamic

9

Minimum bending radius

20D

Short-term crush test, kN/cm (N/10cm)

Resistance to axial torsion at angle ±180° on 2 m length cable

Resistance to bends at angle ±90° with a radius equal to 20 nominal cable diameters

Resistance to impact 5 J

Resistant

-

¹ Tensile strength value is for maximum number of fibers design



3. Packaging and marking

Cable factory length, km	6			
Package	Drum №20a (2020x1365x2020)			
Tolerance, %	±3,0			
Short lengths (customer approval)	Maximum 5%			
Marking method	Inkjet printing			
The accuracy of marking, %	±0,5			

4. Coloring

Colorir	Coloring of fibers in loose tube (According to Customer's requirements color can be different). M-fiber										
with b	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
<u>red+m</u>	green+m	<u>blue+m</u>	<u>vellow+m</u>	white+m	slate+m	brown+m	<u>violet+m</u>	agua+m	<u>transparent</u>	orange+m	pink+m

Coloring of optical loose tube (According to Customer's requirements color can be different). Core-filler color is											
natural.	natural.										
	Layer 1										
1	L	2			3	4		5		6	
re	ed .	gre	en	bl	ue yellow		white		slate		
	Layer 2										
7	8	9	10	11	12	13	14	15	16	17	18
red	green	blue	yellow	white	slate	brown	violet	aqua	black	orange	pink

5. Product data

Fiber count	432
Loose tubes x fibers	18x24