

# Fiber Optic Cables

### **Aerial Fiber Optic Cable**

Rev. 1-2020

2 G652D SJ HDPE 2.5kN D10.1	
Application	Cable Construction
poles or in ducts	~ Central Strength Member (CSM)- glass fiber
ble	reinforced plastic rod (FRP);
erial cable with aramid	~ PBT Loose Tube filled with a suitable water tightness
	compound;
tical fiber Part 2: Product	~ Optical Fibers;
	~ Fillers when needed;
optical fiber cables – Part 4:	~ Longitudinal Water Tightness: dry core with water
on – Aerial optical cables along	swellable elements;
S	~ Aramid Yarns as additional strength member;
we at a station of a standard state of a station	

- ~ Outer Jacket (Black HDPE);

Stranding: Loose tube and fillers, SZ stranded around CSM;

## **Technical Characteristics**

Optical Fiber Performance - G.652D						
Characteristic	Specified Value					
Attenuation Coefficient:	≤ 0.35 dB/km					



The above design is only a sample of the options available. Contact our sales team for other specifications. Our policy of continuous improvement may result in a change of specifications without notice.

Type: ADSS 48/M12

~ For installation on

- ~ Fully dielectric cabl
- ~ Self-supporting ae

reinforcement

~ IEC 60793-2 - Opti specifications

~ IEC 60794-1-2 - Op

Sectional specificatio electrical power lines

~ ITU-T G.652 - Characteristics of a single-mode optical ~ Ripcords under jacket fiber cable



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≤ 0.21 dB/km
9.2 ±0.4µm
10.4 ±0.5µm
≤ 3.5 ps/nm·km
≤ 17 ps/nm·km
λomin:1300nm
λoMax:1324nm
≤ 0.092 ps/(nm <sup>2.</sup> km)
≤ 1260 nm
125 ±1.0μm
≤1.0%
≤ 0.6µm
245 ± 10μm
≤ 12.5µm
≥ 0.69GPa(100kpsi)
≥ 20

Fiber Optic Cable Parameters								
Соге Туре	G.652.D							
Fiber Count	48							
Tube Count	4							
Filler Count	2							
Cable Diameter (mm) - Approx.	10.1							
Cable Weight (kg/km) - Approx.	78							
Maximum Allowed Tension (MAT)	2.5 kN							
Minimum Bending Radius (Installing)	20 x D							
Minimum Bending Radius (Operating)	10 x D							
Temperature (Operation)	-40°C ~ +70 °C							
Temperature (Transportation and Storage)	-40°C ~ +70 °C							
Packing	Wooden drum with protection							
Delivery Lengths	To be confirmed, $\pm$ %5 tolerance							
Marking	<optivine> + <adss 2.5kn<="" 48="" g652d="" hdpe="" m12="" sj="" td=""></adss></optivine>							
Marking	D10.1> + <manufacturing date=""> + <length marking=""></length></manufacturing>							

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## **Fiber Optic Cables**

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Fiber Color Identification*												
No. 1 2 3 4 5 6 7 8 9 10 11 12									12			
Color	Red	Green	Yellow	Brown	Violet	Turquoise	Black	Pink	Blue	White	Grey	Orange

Tube Color Identification**												
No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Red	Green	Yellow	Brown	Violet	Turquoise	Black	Pink	Blue	White	Grey	Orange

\* When tubes go beyond 12 fibers, the color code repeats and black rings are used to distinguish the fibers.

\*\* When cables go beyond 12 tubes, the color code repeats and black stripes are used to distinguish the tubes.

\*\*\* Customized solutions can be offered upon request.

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