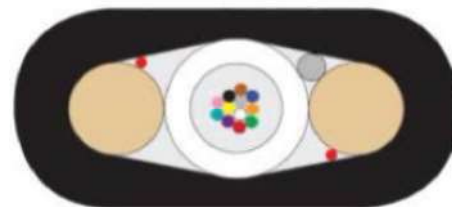


## Outdoor Flat Drop Optical Cable

Type: Drop-Flat LT 12M12 G652D 2SFRP NA SJ HDPE 1kN D7.9x4.5



### Application

- ~ Suitable for aerial installation, reaching a span of 50m depending on climate conditions.
- ~ For FTTH access networks, ensuring the connection between the junction box inside the building and the external point.
- ~ Fully dielectric cable
- ~ IEC 60794-1-2 - Basic optical cable test procedures

### Cable Construction

- ~ **PBT Loose Tube** filled with a suitable water tightness compound;
- ~ **Optical Fibers**;
- ~ **2 side FRP** as additional strength member;
- ~ **Water Blocking Yarns**;
- ~ **Ripcords**;
- ~ **Outer Jacket** (Black HDPE);

## Technical Characteristics

Optical Fiber Performance - G.652D	
Characteristic	Specified Value
Attenuation Coefficient:	
at 1310 nm Max :	$\leq 0.35$ dB/km
at 1550 nm Max :	$\leq 0.21$ dB/km
Mode Field Diameter :	
at 1310 nm	$9.2 \pm 0.4\mu\text{m}$
at 1550 nm	$10.4 \pm 0.5\mu\text{m}$
Chromatic Dispersion:	
between 1285 - 1330 nm:	$\leq 3.5$ ps/nm·km

at 1550nm	$\leq 17 \text{ ps/nm}\cdot\text{km}$
Chromatic dispersion coefficient	$\lambda_{\text{omin}}:1300\text{nm}$ $\lambda_{\text{oMax}}:1324\text{nm}$
Zero Dispersion Slope	$\leq 0.092 \text{ ps}/(\text{nm}^2\cdot\text{km})$
Cable Cut off Wavelength ( $\lambda_{\text{cc}}$ )	$\leq 1260 \text{ nm}$
Cladding Diameter	$125 \pm 1.0\mu\text{m}$
Cladding Non-Circularity	$\leq 1.0\%$
Core / Cladding Concentricity error	$\leq 0.6\mu\text{m}$
Coating Diameter (uncoloured)	$245 \pm 10\mu\text{m}$
Cladding / Coating Concentricity error	$\leq 12.5\mu\text{m}$
Proof Stress	$\geq 0.69\text{GPa}(100\text{kpsi})$
Dynamic Fatigue	$\geq 20$

Fiber Optic Cable Parameters	
Characteristic	Specified Value
Core Type *	G.652D
Fiber Count	12
Tube Count	1
Cable Diameter (mm)	7.9x4.5
Cable Weight (kg/km) - Approx.	43
Short Term Tensile Strength	1000 N
Crush	1000 N/10cm, max. 5 min.
Minimum Bending Radius (Load)	20 x D
Minimum Bending Radius (Unload)	15 x D
Temperature (Operation)	-40°C ~ +70 °C
Temperature (Transportation and Storage)	-40°C ~ +70 °C
Delivery Lengths	To be confirmed, $\pm 5\%$ tolerance
Marking	<OPTIVINE> + <Drop-Flat LT 12M12 G652D 2SFRP NA SJ HDPE 1kN D7.9x4.5> + <manufacturing date> + <length marking>

Fiber 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

Tube Color Identification	
No.	1
Color	Natural

- \* Other fiber types can be used upon request.
- \*\* Customized solutions can be offered upon request.