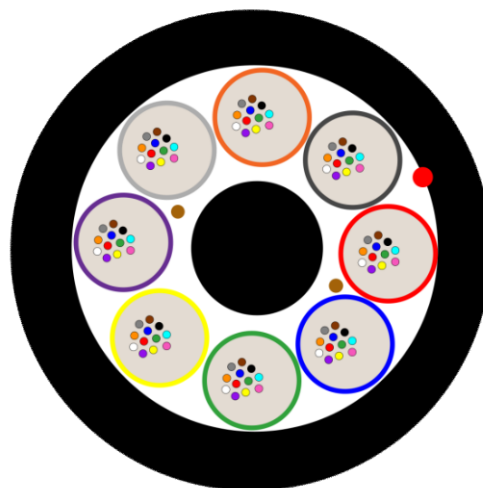


Outdoor Microcable

Type: Microcable 96/M12 G.652D SJ HDPE 1kN D6.5



Application

- ~ For access, distribution, City network and FTTx applications.
- ~ Fully dielectric cable
- ~ Designed to be rapidly installed by blowing.
- ~ High blowing distance due to the excellent friction properties of the outer sheath.
- ~ IEC 60794-1-2 - Basic optical cable test procedures

Cable Construction

- ~ **Central Strength Member (CSM)**- Fiber reinforced plastic rod (FRP);
- ~ **PBT Loose Tube** filled with a suitable water tightness compound;
- ~ **Optical Fibers**;
- ~ **Fillers** (nature plastic rods when needed);
- ~ **Water Blocking Yarns**;
- ~ **Ripcord** under jacket;
- ~ **Outer Jacket** (HDPE);

Technical Characteristics

Optical Fiber Performance - G.652D	
Characteristic	Specified Value
Attenuation Coefficient:	
at 1310 nm Max :	≤ 0.35 dB/km
at 1550 nm Max :	≤ 0.22 dB/km

Mode Field Diameter :	
at 1310 nm	9.2 ±0.4μm
at 1550 nm	10.4±0.8μm
Chromatic Dispersion:	
at 1310 nm	≤ 3.5 ps/(nm·km)
at 1550 nm	≤ 18 ps/(nm·km)
at 1625 nm	≤ 22 ps/(nm·km)
Zero-Dispersion wavelength	1300nm÷1324nm
Cable Cut off Wavelength (λ _{cc})	≤ 1270 nm
Cladding Diameter	125 ±1.0μm
Cladding Non-Circularity	≤0.8%
Core / Cladding Concentricity error	≤ 0.6μm
Proof Test	≥0.69GPa (100kpsi)
Dynamic Fatigue	≥ 20

Fiber Optic Cable Parameters	
Characteristic	Specified Value
Core Type *	G.652D
Fiber Count	96
Tube Count	8
Tube Diameter	1.55 mm
Filler Count	0
Cable Diameter	6.5 ± 0.2 mm
Cable Weight (kg/km) - Approx.	44.0
Short Term Tensile Strength (fibre strain 0.6%)	1000 N
Crush	700 N/10cm
Minimum Bending Radius (Load)	15 x D
Minimum Bending Radius (Unload)	10 x D
Temperature (Operation)	-25°C ~ +70 °C
Temperature (Transportation and Storage)	-25°C ~ +70 °C
Packing	Wooden drum with protection
Delivery Lengths	To be confirmed, ± %5 tolerance
Marking	<OPTIVINE> + <Microcable 96/M12 G.652D SJ HDPE 1kN D6.5> + <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	2	3	4	5	6	7	8	9	10	11	12
Color	Red	Green	Yellow	Brown	Violet	Turquoise	Black	Pink	Blue	White	Grey	Orange

* Other fiber types can be used upon request.

** When tubes go beyond 12 fibers, the colors repeat but black rings are used to distinguish fibers.

*** Customized solutions can be offered upon request.