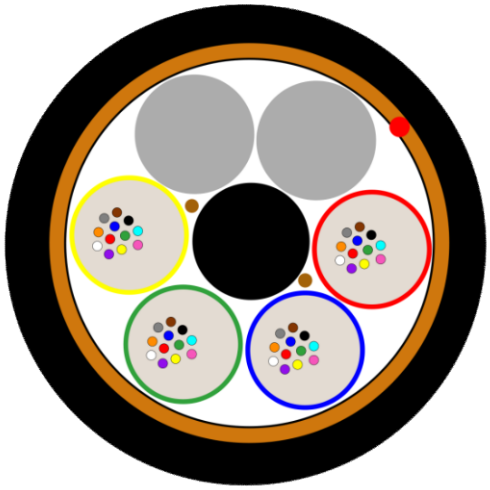
Outdoor Microcable

Type: Microcable 48/M12 G.652D SJ HDPE 1kN D5.7



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;
~ **Water Blocking Glass Yarns Tape;**
~ **Outer Jacket** (HDPE);

Technical Characteristics

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

Mode Field Diameter : at 1310 nm at 1550 nm	 9.2 ±0.4µm 10.4±0.8µm
Chromatic Dispersion: at 1310 nm at 1550 nm at 1625 nm	 ≤ 3.5 ps/(nm·km) ≤ 18 ps/(nm·km) ≤ 22 ps/(nm·km)
Zero-Dispersion wavelength	1300nm÷1324nm
Cable Cut off Wavelength (λcc)	≤ 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	48
Tube Count	4
Tube Diameter	1.55 mm
Filler Count	2
Cable Diameter	5.7 ± 0.2 mm
Cable Weight (kg/km) - Approx.	31.0
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 48/M12 G.652D SJ HDPE 1kN D5.7> + <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.