



# 12 FIBER SINGLE MODE OUTDOOR OFC CABLE

Single Mode G.652.D

This UV Stabilized outdoor cable for applications in harsh conditions. It contains a central gel -filled loose tube of a diameter of 2.0 mm for 6 - 24 fibers. The outer sheath is made of 0.150 mm ECCS tape armor plus a 1.8 mm HDPE sheath. ECCS steel tape armor is a combination of strength and flexibility that offers additional crush and rodent protection.

## Application

### LAN & Surveillance

Local Area network & Fiber to the home (FTTH), Fiber to the building (FTTB)

### CATV

For video, voice, and internet connections

### Utilities

Management of power grid

### Security

Closed circuit TV and intrusion sensors

### Military

Everywhere



Suitable for Direct burial & inside duct installation



Improves compressive Strength & Robust construction



Local loop, metro, long-haul and broadband Network



Light Weight and flexible

## Specifications

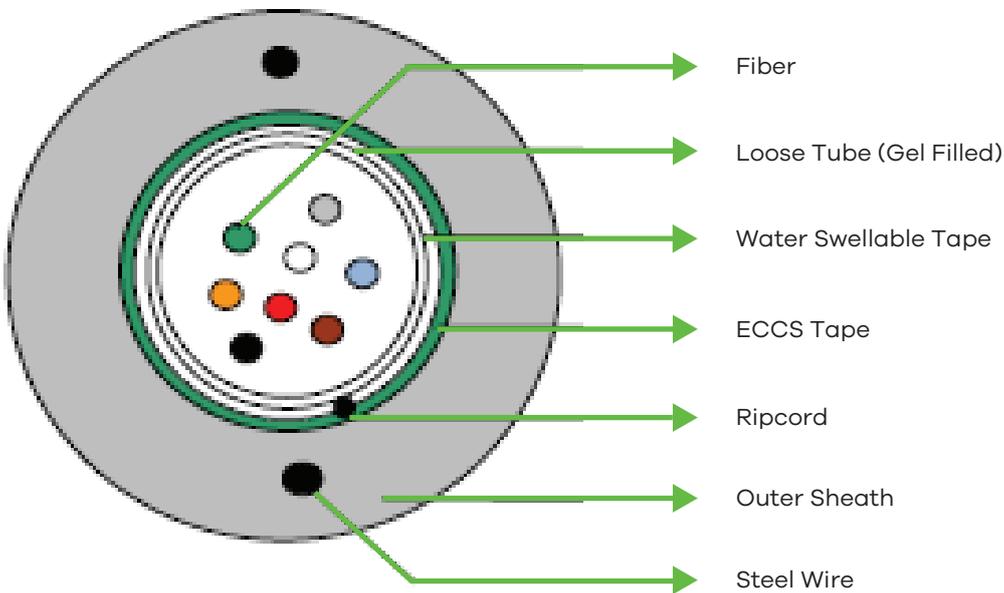
Physical Characteristics	
Fibre Type	Single Mode G.652.D and G.657 (OS2 & OS1)
Fibre Count	12
Fibres Per Tube	12
Tube Type	1 x Stranded Loose Tube (Unitube)
Subunit Type	Gel-Filled
Tube Diameter (mm)	2.0 ±0.01
Embedded Strength Member (mm)	Glass Wool / Yarn Filled
Armoring	Electro Corrugated ECCS Tape
Outer Sheath Material	HDPE 2.0mm ±0.05
Nominal cable diameter (mm) overall	7.5 mm ±0.5 mm
Cable Weight (kg/km)	58 KG/Km ±10%
Additional Strength Membrane	1 x Ripcord below Armoring and Outer Sheath
Fiber Colour Code	Blue, Orange, Green, Brown, Grey, White, Red Black, Yellow, Violet, Pink, Aqua
Fiber Length (Mtrs)	2000 (Packed in wooden drum) ± 10%
Color	Black

Technical Data	
Attenuation (dB/km)	@ 1310 nm: ≤ 0.36
	@ 1550 nm: ≤ 0.23
	@ 1625 nm: ≤ 0.26
Chromatic Dispersion (ps/nm.km)	@ 1285-1330 nm: ≤ 3.5
	@ 1270-1340 nm: ≤ 5.3
	@ 1550 nm: ≤ 18.0
	@ 1625 nm: ≤ 22.0
PMD @ 1310 and 1550 nm (ps/√km)	≤ 0.20
Zero Dispersion Slope (ps/nm <sup>2</sup> .km)	≤ 0.092
Zero Dispersion wavelength (nm)	1300 to 1324 nm
Cable Cut off Wavelength (nm)	≤ 1260
MFD (μm)	8.8 to 9.8
Clad dia. (μm)	125 ± 1.0
Core-Clad concentricity error (μm)	≤ 0.6
Clad Non-Circularity (%)	≤ 1
Coating dia. (μm)	245 ± 10
Coating-Cladding concentricity error (μm)	≤ 12.0

Mechanical Data	
Max. Tensile Strength (N)	2000 N @ 0.25%
Crush Resistance (N/100 mm)	1500 N
Impact Strength (nm)	25N – Mt.
Torsion	±180°
Repeated Bend (@5kg load)	30 cycles
Bending Radius	20 x D (Dynamic); 10 x D (Static)
Drip Test (30 cm sample)	70°C, 24 hrs.
Temperature Range	-10°C to +60°C (Installation) -20°C to +70°C (Operation) -30°C to +70°C (Storage)

Cable Standards and Qualifications	
CPR/Euro Class	EN50575 - FCA
Standards	ANSI/ICEA S-87-640, EN 187105, Bellcore / Telcordia GR-326 . ISO/IEC 11801:2002; IEC 60794-1-2E1; IEC 60794-1-2 E11; IEC 60794-1-2 E3; IEC 607941-2 F1; IEC60794-1 and ITU Recommendation G.652.D. EIA/TIA accordance as per latest updates.
Environmental Directives	RoHS Compliant
Quality Management System	ISO-9001:2008

## Construction Of Cable



## Product

**Model**  
ZYFS01SM212F2521

For other Zyxel Solutions , visit us on the web at [www.zyxel.com](http://www.zyxel.com)  
All specifications are subject to change without notice.

