



STRUCTURED CABLING SYSTEMS

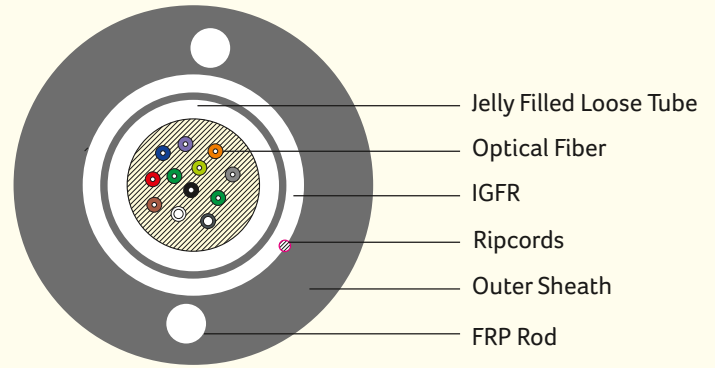
DIGISOL Single Mode (OS2), Unitube Unarmoured Cable G Series

Introduction:-

DIGISOL Single Mode (OS2) Unitube Unarmoured Cable is a indoor duct cable with thixotropic jelly in central loose tube to prevent water ingress Embedded with glass fiber reinforcement and by using 2 FRP rods provides better tensile strength and antibuckling properties. Available in UVHDPE sheath.

Key Features:-

- Suitable for Indoor network cabling
- UV protection
- Unarmoured design with high strength FRP rod & Impregnated Glass fiber
- Thermoplastic material loose tube
- Excellent water proof layer and moisture resistance
- Excellent Crush resistance performance
- Light weight and Compact structure



Constructional Specifications:-

Parameters	Fiber Core : 02, 04, 06, 12F
Number of Fiber per Tube	02, 04, 06, 12 nos.
Fiber Colours	* *
Number of Loose Tube	01 no.
Loose Tube Colours	Natural
Loose Tube Internal Diameter	2.2 ± 0.1 mm (PBT)
Loose Tube Outer Diameter	3.2 ± 0.1 mm (PBT)
Peripheral Strength Member	1.0 ± 0.05 mm (FRP Rods - 2nos.)
Peripheral Strength Member	Impregnated Glass Fiber Reinforcement (IGFR)
Number of Rip Cords	01 no. (Polyester)
Outer Sheath Thickness	1.5 mm (Nominal) (HDPE - Black)
Cable Diameter	7.0 ± 0.5 mm
Cable Weight	42.0 ± 7 kg/km

Fiber Colours: * *

02 Fibers: Blue, Orange

04 Fibers: Blue, Orange, Green, Brown/Natural

06 Fibers: Blue, Orange, Green, Brown, Slate, White/Natural

12 Fibers: Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua/Natural

Environmental Specifications:-

Storage Temperature : -20 °C to +70° C

Installation Temperature : -15 °C to +70° C

Operating Temperature : -20 °C to +70° C

Standards:-

IEC 60793-1 & 60794-1 Teledcordia GR-20 Core

ANSI/TIA 568-C.3 & ISO/IEC 11801 ITU-T REC G.652D

Mechanical Specifications:-

Parameters	Fiber Core : 02, 04, 06, 12 F	Standards
Tensile Strength	1500 N	IEC 60794-1-2-E1
Crush Resistance	1500 N/100 mm	IEC 60794-1-2-E3
Impact Strength	10 N.m	IEC 60794-1-2-E4
Torsion	± 180°	IEC 60794-1-2-E7
Minimum Bend Radius	20 x D	IEC 60794-1-2-E11

Optical Fiber Specifications:-

Parameters	Fiber Core : 02, 04, 06, 12 F
Fiber Type	G.652D (OS2)
Attenuation	≤ 0.34 dB/km (@1310 nm)
	≤ 0.19 dB/km (@1550 nm)
Chromatic Dispersion	≤ 3.5 ps/nm.km (@1285 - 1330 nm)
	≤ 18 ps/nm.km (@1550 nm)
Zero Dispersion Wavelength	1300 - 1324 nm
Zero Dispersion Slope	≤ 0.092 ps/nm ² .km
Polarisation Mode Dispersion	≤ 0.2 ps/√km
Cut-off Wavelength	≤ 1320 nm
Mode Field Diameter	9.2 ± 0.4 μm (@1310 nm)
Core Cladding Concentricity Error	≤ 0.8 μm
Cladding Diameter	125 ± 1 μm
Cladding Non-circularity	≤ 1 %
Coating Diameter	245 ± 10 μm

Cable Size & Standard Length:-

2F to 12F : 2.0/3.0 kms ± 10%

Ordering Information:-

Part Codes	Description
DGF-CUS2OUSH-04G	DIGISOL OS2 UNITUBE UNARMD HDPE BLACK 4F, G-SERIES
DGF-CUS2OUSH-06G	DIGISOL OS2 UNITUBE UNARMD HDPE BLACK 6F, G-SERIES
DGF-CUS2OUSH-12G	DIGISOL OS2 UNITUBE UNARMD HDPE BLACK 12F G-SERIES