



# STRUCTURED CABLING SYSTEMS

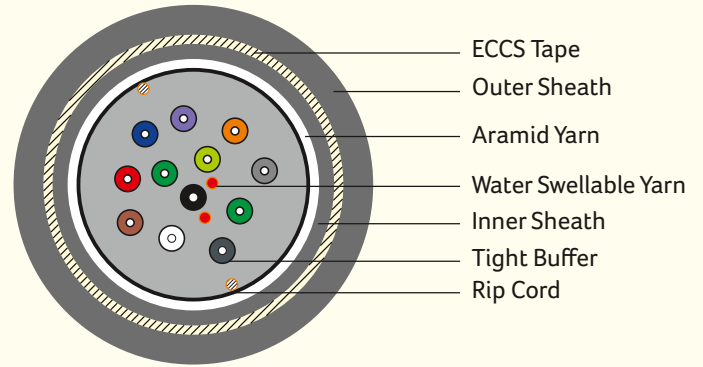
## DIGISOL Single Mode (OS2), Armoured, Tight Buffered (Dry Core)

### Introduction:-

DIGISOL Single Mode (OS2) Armoured Cable is a direct burial cable made of dry core construction with tight buffered fibers embedded with the aramid yarns. The cable is strengthened with armoured made of high quality electro chromium corrugated steel tape. Available with inner and outer sheath as LSZH.

### Key Features:-

- Suitable for Outdoor network direct burial
- Rodent proof
- UV protection
- Polyester based cord below inner sheath for easy ripping
- Excellent water proof layer and moisture resistance
- Excellent Crush resistance performance
- Light weight and Compact structure



### Constructional Specifications:-

Parameters	Fiber Core : 12 F
Number of Tight Jacketed Fibers	12 nos.
Fiber Colours	Natural
Tight Jacketing over Fibers	900 ± 50µm
Tight Jacketing Colours	* *
Peripheral Strength Member	Aramid yarn
Number of Rip Cords	02 no. (Polyester)
Moisture Barrier	Water Swellable Yarn
Armoring	≥ 0.150 mm (ECCS Tape)
Inner Sheath Thickness	1.1 mm (Nominal) (LSZH Black)
Outer Sheath Thickness	1.5 mm (Nominal) (LSZH Black)
Cable Diameter	11.3 ± 0.7 mm
Cable Weight (HDPE/LSZH)	150.0 ± 10 kg/km

Jacketing Colours: \* \*  
12 Fibers: Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua

### Environmental Specifications:-

Storage Temperature : -40 °C to +60° C  
 Installation Temperature : -20 °C to +70° C  
 Operating Temperature : -20 °C to +60° C

### Standards:-

IEC 60793-1 & 60794-1                      Telecordia GR-20 Core  
 ANSI/TIA 568-C.3 & ISO/IEC 11801        ITU-T REC G.652D

### Mechanical Specifications:-

Parameters	Fiber Core : 12 F	Standards
Tensile Strength	1000 N	IEC 60794-1-2-E1
Crush Resistance	2000 N/100 mm	IEC 60794-1-2-E3
Impact Strength	25 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 : 12 F
Fiber Type	G.652D (OS2)
Attenuation	≤ 0.38 dB/km (@1310 nm)
	≤ 0.25 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 <sup>2</sup> .km
Polarisation Mode Dispersion	≤ 0.2 ps/√km
Cut-off Wavelength	≤ 1260 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:-

12F : 2.0 kms ± 10%

### Ordering Information:-

Part Codes	Description
DGF-CAS2OTSL-12	DIGISOL SM(OS2) ARMoured, TIGHT BUFFERED, DRY CORE, 12F - LSZH