



STRUCTURED CABLING SYSTEMS

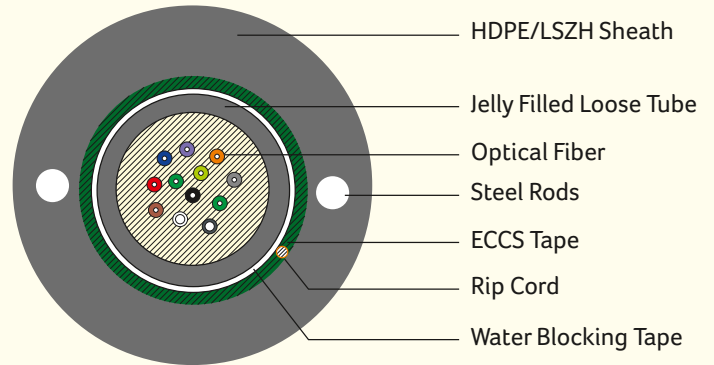
DIGISOL Multi Mode, Unitube Armoured Cable

Introduction:-

DIGISOL Multi Mode Unitube Armoured Cable is a direct burial cable with thixotropic jelly in central loose tube to prevent water ingress and armour with high quality electro chromium corrugated steel tape. Embedded strength members by using 2 steel rods provides better tensile strength and antibuckling properties. Available in UV HDPE sheath and LSZH sheath.

Key Features:-

- Suitable for Outdoor network direct burial
- Rodent proof
- UV protection
- Polyester based cord below armour tape for easy ripping
- Thermoplastic material loose tube
- Excellent water proof layer and moisture resistance
- Excellent Crush resistance performance
- Lightweight and Compact structure



Constructional Specifications:-

Parameters	Fiber Core : 04, 06, 08, 12 F	Fiber Core : 24 F
Number of Fiber per Tube	04, 06, 08, 12 nos.	24 nos.
Fiber Colours	** *	** *
Number of Loose Tube	01 no.	01 no.
Loose Tube Colours	Natural	Natural
Loose Tube Internal Diameter	1.7 ± 0.1 mm (PBT)	2.6 ± 0.1 mm (PBT)
Loose Tube Outer Diameter	2.5 ± 0.1 mm (PBT)	3.5 ± 0.1 mm (PBT)
Peripheral Strength Member	0.6 ± 0.05 mm (Steel Rods - 2nos.)	0.6 ± 0.05 mm (Steel Rods - 2nos.)
Moisture Barrier	Water Swellable Tape	Water Swellable Tape
Armoring	≥ 0.150 mm (ECCS Tape)	≥ 0.150 mm (ECCS Tape)
Number of Rip Cords	01 no. (Polyester)	01 no. (Polyester)
Outer Sheath Thickness	1.5 mm (Nominal) (HDPE/LSZH Black)	1.5 mm (Nominal) (HDPE/LSZH Black)
Cable Diameter	7.5 ± 0.5 mm	8.5 ± 0.5 mm
Cable Weight (HDPE/LSZH)	65.0 ± 10 kg/km / 75.0 ± 10 kg/km	75.0 ± 5 kg/km / 95.0 ± 5 kg/km

Fiber Colours: ** *

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

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

08 Fibers: Blue, Orange, Green, Brown, Slate, White, Red, Black/Natural

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

24 Fibers: Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua, Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Natural (Ring marking for the next 12 colors)

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

ANSI/TIA 568-C.3 & ISO/IEC 11801

Telecordia GR-20 Core

Ordering Information:-

Part Codes	Description
DGF-CAZZOUSX-YY	DIGISOL ZZZ UNITUBE, ARMOURED, Y Core, XX

Note: X / XX - Sheath Material - H / HDPE, L / LSZH

YY / Y - Number of fiber cores - 04 / 4, 06 / 6, 08 / 8, 12 / 12, 24 / 24.

Example: DGF-CAM10USH-06 - DIGISOL MM(OM1) UNITUBE, ARMOURED, 6 CORE, HDPE

DGF-CAM40USL-06 - DIGISOL MM(OM4) UNITUBE, ARMOURED, 6 CORE, LSZH

Mechanical Specifications:-

Parameters	Fiber Core : 04, 06, 08, 12, 24 F	Standards
Tensile Strength	1000 N	IEC 60794-1-2-E1
Crush Resistance	4000 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 : 04, 06, 08, 12, 24 F			
	62.5 μm (OM1)	50 μm (OM2)	50 μm (OM3)	50 μm (OM4)
Fiber Type	62.5 μm (OM1)	50 μm (OM2)	50 μm (OM3)	50 μm (OM4)
Attenuation (@850 nm)	≤ 3.5 dB/km	≤ 2.7 dB/km	≤ 3.0 dB/km	≤ 3.0 dB/km
Attenuation (@1300 nm)	≤ 1.5 dB/km	≤ 0.8 dB/km	≤ 1.0 dB/km	≤ 1.0 dB/km
Bandwidth (@850 nm)	≥ 200 MHz.km	≥ 500 MHz.km	≥ 1500 MHz.km	≥ 3500 MHz.km
Bandwidth (@1300 nm)	≥ 600 MHz.km	≥ 500 MHz.km	≥ 500 MHz.km	≥ 500 MHz.km
Core Diameter	62.5 ± 2.5 μm	50.0 ± 2.5 μm	50.0 ± 2.5 μm	50.0 ± 2.5 μm
Core Cladding Concentricity Error	≤ 1 μm	≤ 1 μm	≤ 1 μm	≤ 1 μm
Cladding Diameter	125 ± 1 μm	125 ± 1 μm	125 ± 1 μm	125 ± 1 μm
Cladding Non-circularity	≤ 1 %	≤ 1 %	≤ 1 %	≤ 1 %
Coating Diameter	250 ± 15 μm	250 ± 15 μm	250 ± 15 μm	250 ± 15 μm

Cable Size & Standard Length:-

4F to 12F : 4.0 kms ± 10%

24F : 2.0 kms ± 10%