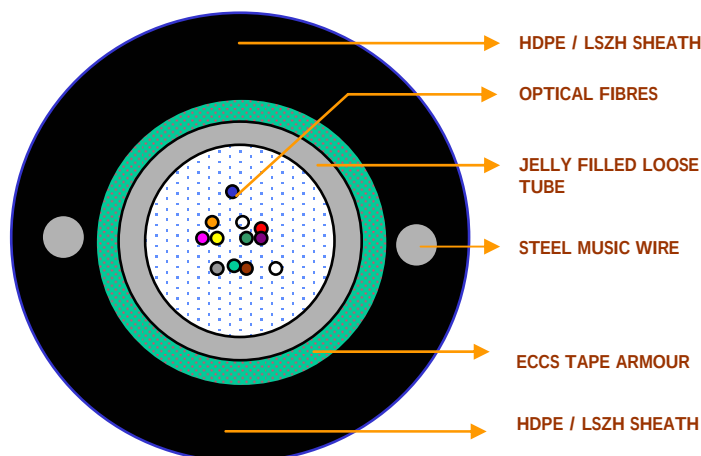


2-12F Armoured Unitube HDPE/LSZH Cable – Design: MMAX & MLM



Description:

- Central Loose tube with jelly compound.
- High quality **Electro Chromium Coated Corrugated Steel tape (ECCS)**
- Armoured design with **Music Quality Steel wire**.
- HDPE / LSZH sheath.

Application:

- Suitable for **Outdoor network System**.
- Excellent **Crush resistant** performance, **light weight**, **Compact structure**.
- Export design cable.

Mechanical & Environment Characteristics:

Operating Temperature	-20 deg C to +60 deg C
Storage Temperature	-40 deg C to +60 deg C
Jacket Material	HDPE / LSZH

Fiber Count	Design	Outer diameter (mm)	Nominal Cable Weight (kg/km) HDPE/LSZH	Pulling Tension IEC 60794-1-2-E1		Crush Load IEC 60794-1-2-E3 (N/100mm)	Bend Radius (mm) IEC 60794-1-2-E11 IEC 60794-1-2-E6
				Short Term (N)	Long Term (N)		
2F to 12F	MMAX	7.8 +/- 0.3	64 / 84	1000	400	2000	20D
2F to 12F	MLM	8.8 +/- 0.3	78 / 98	1800	800	4000	20D

Color Code:

BL-BLUE	OR-ORANGE	GR-GREEN	BR-BROWN	GY-GREY	WH-WHITE
RD-RED	BK-BLACK	YE-YELLOW	PU-PURPLE	PI-PINK	AQ / NAT

Optical Fiber Characteristics: Attenuation & Bandwidth:-

FIBER TYPE	9/125µm (OS1)		62.5/125µm (OM1)		50/125µm (OM2)		50/125µm (OM3)	
Operational Wavelength	1310nm	1550nm	850nm	1300nm	850nm	1300nm	850nm	1300nm
Maximum Attenuation (db/km)	0.36	0.22	3.5	1.5	3.5	1.5	2.7	1.0
Minimum Bandwidth (MHz-km)	-	-	200	600	500	550	1500/2000*	500

* Effective Modal Bandwidth at 850nm for OM3

Characteristics (cabled) Single-Mode – Matched-Cladded optical fibers according to ITU

Fiber-Type & Refractive Index	Mode-Field/Cladding Diameter (μm)	Wavelength (nm)	Dispersion (ps/(nm-km))	PMD (ps/km)	Cable Cut-off Wavelength (nm)
9/125 / G.652D 1.4670/1.4675	9.2 ± 0.4 125 ± 0.7	1310 1550	≤ 3.5 ≤ 18	≤ 0.2	≤ 1260

Characteristics (cabled) Multi-Mode Graded-Index optical fibers according to IEC 60793

Fiber-Type	Mode-Field/Cladding Diameter (μm)	Wavelength (nm)	Numerical Aperture (μm)	Refractive Index
62.5/125 OM1	62.5 ± 2.5 125 ± 1	850 1300	0.275 ± 0.015	1.497 1.493
50/125 OM2	50 ± 2.5 125 ± 1	850 1300	0.200 ± 0.015	1.483 1.478
50/125 OM3	50 ± 2.5 125 ± 1	850 1300	0.200 ± 0.015	1.483 1.478

Cable & Drum Sizes

Cable Size	Design	Standard Length
2F-12F	MMA	2 kms +/- 10%
2F-12F	MLM	2 kms +/- 10%

**** Seasoned wood drums with fumigation can be supplied for Exports (Optional).**

Salient Features:

1. LSZH compound meets the following properties as per International Specification/s:

Specification	Properties
IEC 811-1	Water Absorption
IEC 1034	Smoke Emission
IEC 754-1	Acid Gas Emission
IEC 60754-2 (EN 50267-2-2)	Halogen Free (pH ≥ 3.5 - μS/cm ≤ 100)
IEC 332-1/3 IEC 60331-25 (EN 50200) IEC 61034 (EN 50268-2)	Flame Retardancy / Fire Propagation
NES 713	Toxicity

Additional information:

Test report (Attenuation) is supplied with each cable drum / delivery.

Cable Length supplied from 500 mtr to 2000 mtr +/- 10% as per requirement.

Cable surface is protected with layers of Cling film and Bubble wrapper (Optional).