

DIRECT BURIAL CABLES

UNITUBE ARMoured OPTICAL FIBRE CABLES



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

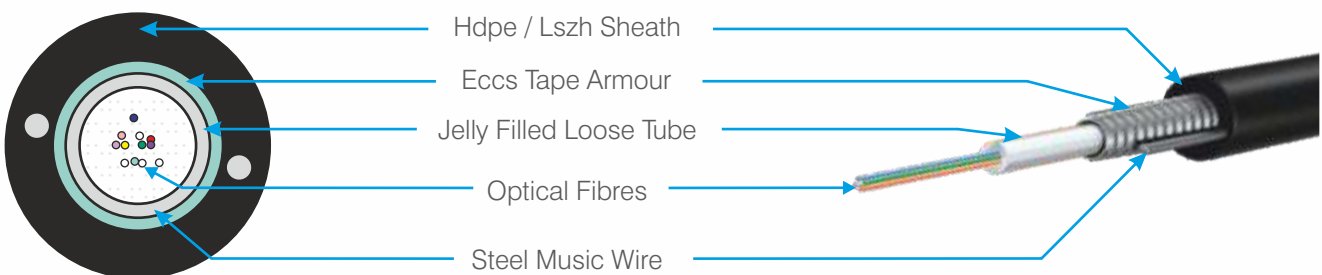
Mechanical & Environment Characteristics:

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

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 \geq 3.5 - μ S/cm \leq 100)
IEC 60332-1-2	Flame Retardancy / Fire Propagation
NES 713	Toxicity

Fibre 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 \pm 0.3	64 / 84	1000	400	2000	20D
2F to 12F	MLM	8.8 \pm 0.3	78 / 98	1800	800	4000	20D
24F	EMLM	8.8 \pm 0.3	79 / 98	2000	1000	4000	20D
48F	EMLX	9.4 \pm 0.3	96 / 118	2200	1000	4000	20D



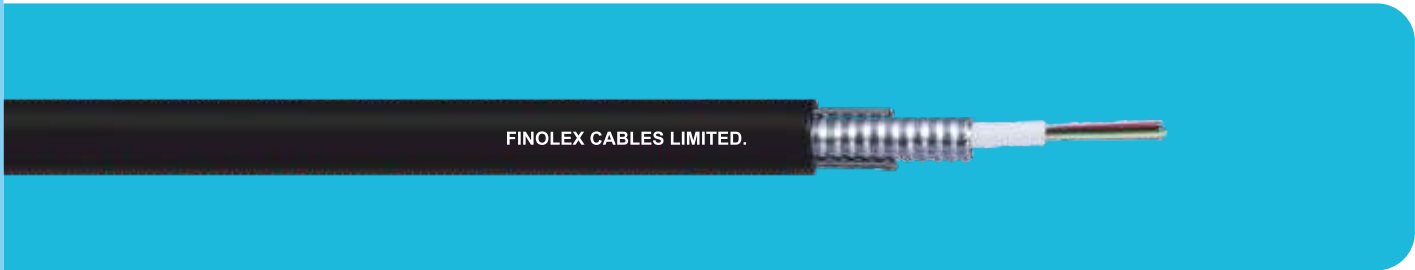
We also offer MFX AR Type design: HDPE / LSZH

PHYSICAL & DIMENSIONS PROPERTIES

Fibre Count	Outer Diameter (mm)	Thickness of Jacket (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	Long Term		Short Term	Long Term
2	9 + 0.3	1.8 + 0.2	72 / 95	1500	1000	3000	10D	20D
6	9 + 0.3	1.8 + 0.2	72 / 95	1500	1000	3000	10D	20D
12	9 + 0.3	1.8 + 0.2	72 / 95	1500	1000	3000	10D	20D
24**	9.5 + 0.3	1.8 + 0.2	82 / 110	1500	1000	3000	10D	20D

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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
- 24F - Contains two bundle of 12F in Blue & Orange colour thread

Application:

- Suitable for Outdoor network System
- Excellent Water proof layer & moisture resistance
- 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

Fibre Count	Design	Outer diameter (mm)	Thickness of Jacket (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	MMX	7.3 ± 0.3	1.8 ± 0.2	54 / 68	1000	400	2000	20D
2F to 12F	MMAXP	7.8 ± 0.3	1.8 ± 0.2	64 / 84	1000	400	2000	20D
24F	MLX	10.0 ± 0.3	1.8 ± 0.2	95 / 120	2000	1000	4000	20D
2-12	MLMP	8.8 ± 0.3	1.8 ± 0.2	78 / 98	1800	800	4000	20D
2-12	MLMW	9.0 ± 0.3	1.8 ± 0.2	90 / 110	2670	1000	4000	20D



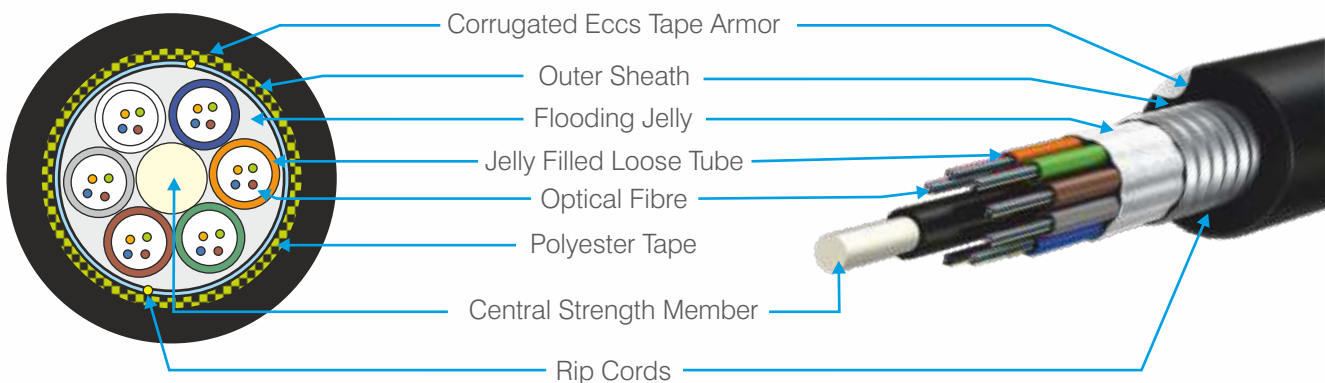
DIRECT BURIAL CABLES

MULTITUBE SINGLE SHEATH ARMoured WET CORE OPTICAL FIBRE CABLES



3. PHYSICAL & DIMENSIONS PROPERTIES

NO. OF FIBRES	4F	6F	12F	24F	48F	72F	96F
STRENGTH MEMBER-FRP	1.8 ± 0.1	1.8 ± 0.1	1.8 ± 0.1	1.8 ± 0.1	2.0 ± 0.1	2.2 ± 0.1	3.5 ± 0.1
LOOSE TUBE DIAMETER-mm	1.7 ± 0.1	1.7 ± 0.1	1.7 ± 0.1	1.7 ± 0.1	2.0 ± 0.1	2.1 ± 0.1	2.1 ± 0.1
NUMBER OF LOOSE TUBE	2	3	3	6	6	6	8
NUMBER OF Fibre IN LOOSE TUBE	2	2	4	4	8	12	12
NUMBER OF FILLER	4	3	3	0	0	0	0
CORRUGATED STEEL TAPE ARMOR	ECCS	ECCS	ECCS	ECCS	ECCS	ECCS	ECCS
OUTER HDPE JACKET THICK-Nominal (mm)	1.5	1.5	1.5	1.5	1.5	1.5	1.5
CABLE DIAMETER-Nominal (mm)	10	10	10	10	10.8	11.2	12.5
CABLE WEIGHT-Nominal (kg/km)	100	100	100	100	120	130	165





DIRECT BURIAL CABLES

MULTITUBE DOUBLE SHEATH ARMoured WET CORE OPTICAL FIBRE CABLES



3. Physical & Dimensions Properties

NO. OF FIBRES	4F	6F	12F	24F	48F	72F	96F	144F
STRENGTH MEMBER-FRP	1.8 ± 0.1	1.8 ± 0.1	1.8 ± 0.1	1.8 ± 0.1	2.0 ± 0.1	2.2 ± 0.1	3.5 ± 0.1	Upcoated 6.5±0.1mm
LOOSE TUBE DIAMETER-mm		1.7 ± 0.1	1.7 ± 0.1	1.7 ± 0.1	2.0 ± 0.1	2.1 ± 0.1	2.1 ± 0.1	2.1 ± 0.1
NUMBER OF LOOSE TUBE	2	3	3	6	6	6	8	12
NUMBER OF FIBRE IN LOOSE TUBE	2	2	4	4	8	12	12	12
NUMBER OF FILLER	4	3	3	0	0	0	0	0
INNER HDPE JACKET THICK- Nominal (mm)	1	1	1	1	1	1	1	1
CORRUGATED STEEL TAPE ARMOR	ECCS	ECCS	ECCS	ECCS	ECCS	ECCS	ECCS	ECCS
OUTER HDPE JACKET THICK- Nominal (mm)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
CABLE DIAMETER-Nominal (mm)	11.9	11.9	11.9	11.9	12.7	13.1	14.4	17.5
CABLE WEIGHT-Nominal (kg/km)	138	138	138	138	160	170	210	250

