AERIAL CABLES

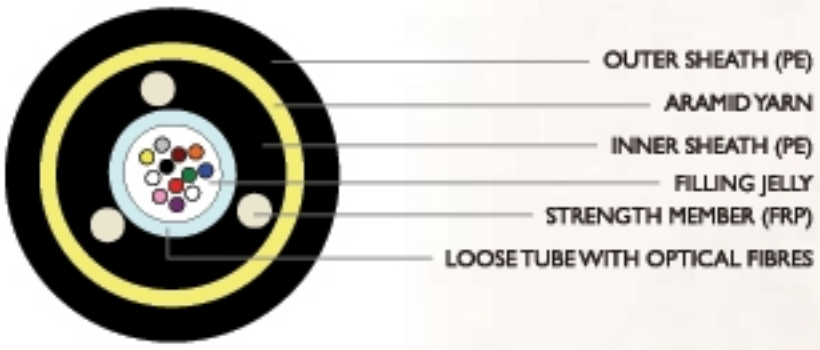
ALL DIELECTRIC SELF SUPPORTING METAL FREE CABLES

FEATURES/ADVANTAGES

- light weight permits larger spans.
- Ideal for direct installation on poles and buildings.
- Meets IEC 60794, EIA/TIA, ITU T, EN 187000, RUS 1755.900 & Telcordia GR-20 International standards.
- Suitable to install upto 125 KV electrical lines.

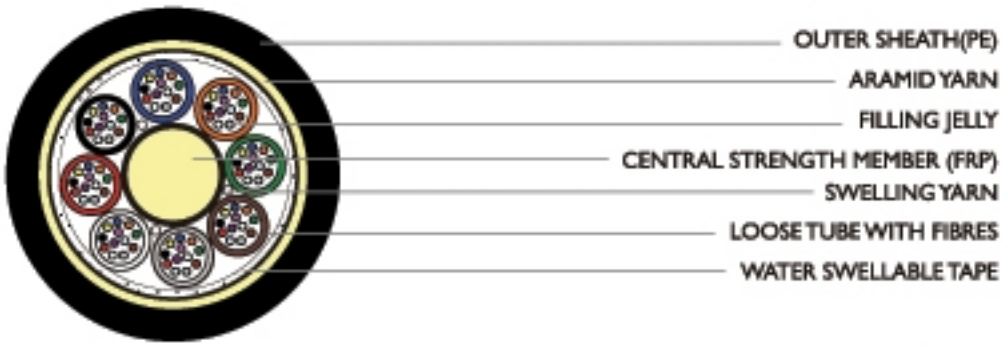
(A) UNITUBE DESIGN:

Loose tube containing fibres and jelly is centrally located. The strength members (FRP) are embedded in the HDPE sheath.A layer of non metallic strength member (aramid yarn) between the inner and outer HDPE sheath provides the extra tensile strengths required for aerial installations.



PART NUMBER	FIBRE COUNT	DIAMETER (mm) Nominal	WEIGHT (Kg./Km) Nominal	TENSILE STRENGTH (N) Installation (Short Term)	TENSILE STRENGTH (N) Operating (Long Term)	CRUSH RESISTANCE (N/10cm)	BENDING RADIUS (mm) Temporary (10 x D of Cable) Dynamic	BENDING RADIUS (mm) Permanent (20 x D of Cable) Static
A-12/SM/UT(3F&A)-PMFP-B11.0	UPTO 12	11.0	100	4000	2000	2000	110	220
A-24/SM/UT(3F&A)-PMFP-B12.0	14 TO 24	12.0	120	4000	2000	2000	120	240

(B) MULTI TUBE DESIGN-SINGLE SHEATH CONSTRUCTION



PART NUMBER	FIBRE COUNT	DIAMETER (mm) Nominal	WEIGHT (Kg./Km) Nominal	TENSILE STRENGTH (N) Installation (Short Term)	TENSILE STRENGTH (N) Operating (Long Term)	CRUSH RESISTANCE (N/10cm)	BENDING RADIUS (mm) Temporary (10 x D of Cable) Dynamic	BENDING RADIUS (mm) Permanent (20 x D of Cable) Static
A-72/SM/MTY(F&A)-MFP-B11.5	UP TO 72	11.5	105	3000	1500	2000	115	230
A-96/SM/MTY (F&A)-MFP-B14.5	74 TO 96	14.5	160	4000	2000	2000	145	290
A-144/SM/MTY (F&A)-MFP-B16.5	98 to 144	16.5	185	4000	2000	2000	165	330

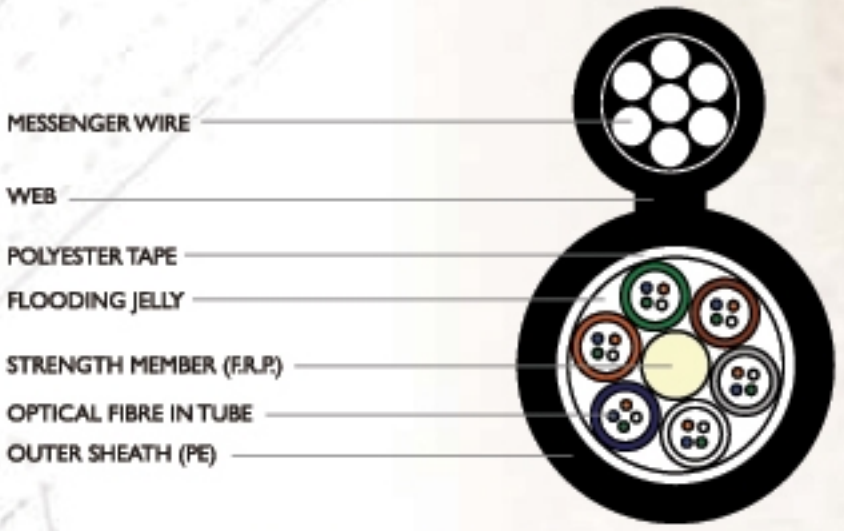
(C) MULTI TUBE DESIGN-DOUBLE SHEATH CONSTRUCTION

Loose tubes containing fibres and jelly are S-Z stranded around a central strength member. A layer of non metallic strength member (aramid yarn) provides the extra tensile strengths required for aerial installations on poles.

PART NUMBER	FIBRE COUNT	DIAMETER (mm) Nominal	WEIGHT (Kg./Km) Nominal	TENSILE STRENGTH (N) Installation (Short Term)	TENSILE STRENGTH (N) Operating (Long Term)	CRUSH RESISTANCE (N/10cm)	BENDING RADIUS (mm) Temporary (10 x D of Cable) Dynamic	BENDING RADIUS (mm) Permanent (20 x D of Cable) Static
A-72/SM/MTJ (F&A)-PMFP-B13.5	UP TO 72	13.5	140	4000	2000	2000	135	270
A-96/SM/MTJ (F&A)-PMFP-B16.0	74 TO 96	16.0	200	6000	3000	2000	160	320

(D) FIGURE-8 DESIGN:

The loose tubes containing fibres and jelly are S-Z stranded around a central strength member. A bunch of stranded steel wires are sheathed with core to make the figure-8 construction, ideal for aerial installation.



PART NUMBER	FIBRE COUNT	DIAMETER (mm) Nominal	WEIGHT (Kg./Km) Nominal	TENSILE STRENGTH (N) Installation (Short Term)	TENSILE STRENGTH (N) Operating (Long Term)	CRUSH RESISTANCE (N/10cm)	BENDING RADIUS (mm) Temporary (10 x D of Cable) Dynamic	BENDING RADIUS (mm) Permanent (20 x D of Cable) Static
A-24/SM/MTJ(F)-SWP-B20.5	UP TO 24	10.5 x 20.5	200	5000	2700	2000	105	210
A-48/SM/MTJ(F)-SWP-B21.5	26 TO 48	11.5 x 21.5	220	6000	3000	2000	115	230
A-72/SM/MTJ(F)-SWP-B21.5	50 TO 72	11.5 x 21.5	250	6000	3000	2000	115	230

***Options Available:**

- Nylon/LSZH/FRPE as outer Jacketing Available.
- Customised designs are available on request.
- Fibre options: SM (G652B/D, G 655 & G657), MM (OM1, OM2 & OM3).
- Dry core construction (non jelly) is optional.
- Rip Cord is optional.
- Also available with Glass yarns.
- Composite of various types of fibres (SM & MM).
- Metallic central strength member option available.
- High strength cable construction is available on request.
- Higher fibre count cable designs are available on request.
- A track resistance sheath for use within high voltage transmission line.