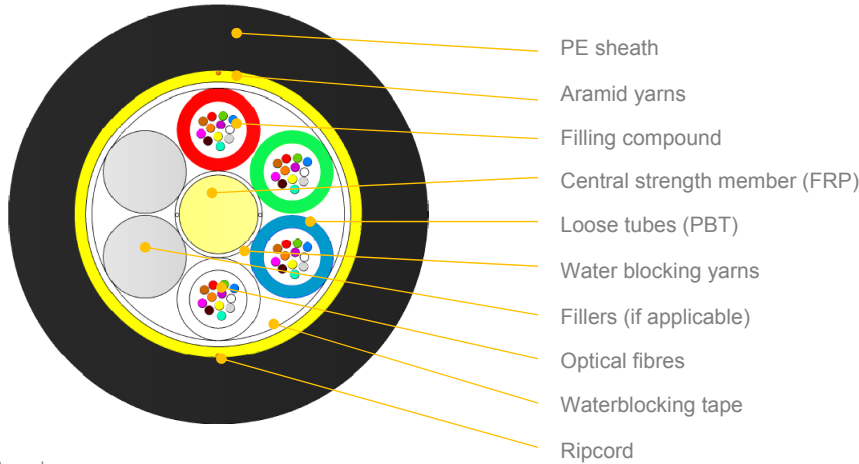


| | | |
|-----------|---------------|----------|
| Type: | AERO-AS04 T25 | REV: 1.1 |
| Issued: | 16/07/2014 | SK |
| Modified: | 14/08/2015 | PB |

Single jacket multitube self-supporting aerial cable AERO AS04



*schematic drawing, not to scale

APPLICATION:

For installation on poles or in ducts.
Fully dielectric cable
Self-supporting aerial cable with aramid reinforcement

DESIGN:

FRP strength and anti-buckling element
Dry yarns to prevent moisture into the cable
Loose tube (PBT Ø 2.5mm) with filling compound
6-12 elements SZ stranded cable core
Optical fibres
Fillers (if applicable)
Water-swellaable tape
Aramid yarns as strain relief and water absorbent
UV stabilized PE sheath (black by default, other colours available)

CABLE DESIGNS:

| Variant | Quantity [pcs] | | | | Ø nominal (±5%) [mm] | Nominal weight (±10%) [kg/km] | Max allowed tension [N] | Max static tension [N] |
|--|----------------|--------------------|-------------------|-----------------|----------------------------|--|----------------------------------|---------------------------------|
| | Fibres | Fibres per tube | Total elements | Active tubes | | | | |
| 1-6T x 6F | 6-36 | 6 | 6 | 1-6 | 11,4 | 98 | 4200 | 2900 |
| 1-6T x 12F | 12-72 | 12 | 6 | 1-6 | 11,4 | 99 | 4100 | 2600 |
| 8T x 12F | 96 | 12 | 8 | 8 | 13,1 | 128 | 4200 | 2800 |
| 12T x 12F | 144 | 12 | 12 | 12 | 16,2 | 194 | 4100 | 2700 |
| Other Fiber counts available on demand | | | | | | | | |

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

| | | |
|----------------------|-----------------------------------|---|
| Crush performance: | 3000 [N/10 cm] | IEC 60794-1-2-E3, $\Delta\alpha \leq 0,05$ dB, reversible |
| Bending radius: | Static: 15 x D Dynamic: 20 x D | IEC 60794-1-2-E6, $\Delta\alpha \leq 0,05$ dB, reversible |
| Water penetration: | 3[m] sample, 1[m] head, 24[h] | IEC 60794-1-2-F5, no leakage |
| Temperature range | | IEC 60794-1-2-F1, $\Delta\alpha \leq 0,05$ dB/km |
| Installation: | -15... +55 [°C] | |
| Operation: | -40... +70 [°C] | |
| Transport & Storage: | -40... +70 [°C] | |

| | | |
|-----------|---------------|----------|
| Type: | AERO-AS04 T25 | REV: 1.1 |
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APPLICATION AND CABLE SPAN CHARACTERISTIC

6 tubes design:

| Loading Conditions | Span | Installed Sag (2%) | Tension | Total sag | Horizontal sag | Vertical sag |
|--------------------|------|--------------------|---------|-----------|----------------|--------------|
| | [m] | [m] | [N] | [m] | [m] | [m] |
| NSC Light | 260 | 5.2 | 4100 | 12.4 | 11.9 | 3.6 |
| NSC Medium | 190 | 3.8 | 4100 | 9.7 | 6.0 | 7.6 |
| NSC Heavy | 110 | 2.2 | 4100 | 6.0 | 3.0 | 5.2 |

8 tubes design:

| Loading Conditions | Span | Installed Sag (2%) | Tension | Total sag | Horizontal sag | Vertical sag |
|--------------------|------|--------------------|---------|-----------|----------------|--------------|
| | [m] | [m] | [N] | [m] | [m] | [m] |
| NSC Light | 220 | 4.4 | 4200 | 10.0 | 9.6 | 3.0 |
| NSC Medium | 170 | 3.4 | 4200 | 8.3 | 5.1 | 6.6 |
| NSC Heavy | 100 | 2.0 | 4200 | 5.3 | 2.7 | 4.6 |

12 tubes design:

| Loading Conditions | Span | Installed Sag (2%) | Tension | Total sag | Horizontal sag | Vertical sag |
|--------------------|------|--------------------|---------|-----------|----------------|--------------|
| | [m] | [m] | [N] | [m] | [m] | [m] |
| NSC Light | 170 | 3.4 | 4100 | 7.5 | 7.1 | 2.4 |
| NSC Medium | 140 | 2.8 | 4100 | 6.5 | 3.9 | 5.3 |
| NSC Heavy | 85 | 1.7 | 4000 | 4.4 | 2.1 | 3.8 |

OPTICAL FIBRES AND LOOSE TUBES COLOUR IDENTIFICATION

Fibres and tubes identification information see DSH_Colors_CODE_XXXX document.

FIBRES PARAMETERS

Optical fibres parameters see DSH_OFP document.

MARKING

The following print (white / hot foil) is applied at 1-meter intervals:

- Supplier: FIBRAIN
- Standard code (Product type, fibre type, fibre count)
- Year of manufacture: xxxx
- Length marking in meters
- Cable ID / Drum No

Example: FIBRAIN AERO AS04 SJ T25 12F SM G652D 2T6F "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

The accuracy of marking is ±0,5%. Remarketing is in accordance with Bellcore GR 20 and supersedes earlier markings. Occasional loss of marking is possible. Cables can be supplied with a range of single mode or multimode fibres and customized print.

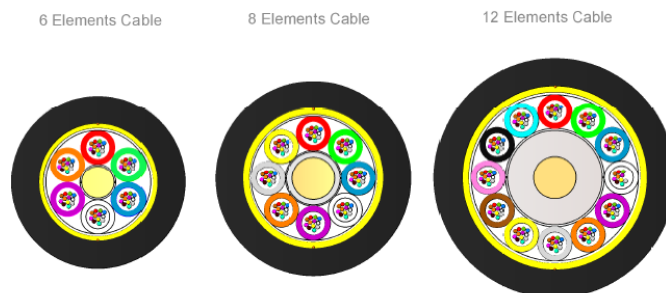
PACKING

Cables will be shipped on disposable wooden or treated wooden drums. Both ends of the cable will be capped and accessible for testing. Rotation direction arrow will be marked on the drum together with identification information.

DELIVERY LENGTH

2000 – 8000 meters ± 5%, with possibility of supplying up to 5% of total contract quantity as short length cables which should be above 1000 meters long. Tolerance of 5 % of order quantity shall be allowed.

ANNEX – DRAWINGS:



*schematic drawing, not to scale

The information is believed to be correct at the time of issue. Fibrain reserves the right to change this specification without prior notice. This specification is not contractually valid unless specifically authorised by Fibrain. Buyer and/or user of this product has to make sure before using this product that it is suitable for the intended use. All questions of liability relating to this product are subject – in accordance with the prevailing – to the Terms of Sale of the selling Fibrain subsidiary.