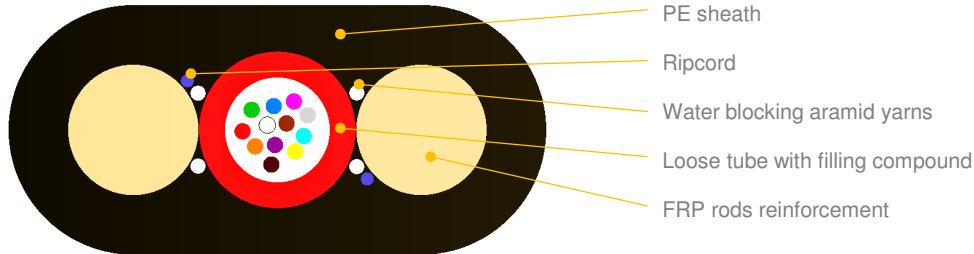


| | | |
|-----------|------------|----------|
| Type: | AERO DF03 | REV: 7.7 |
| Issued: | 13/11/2015 | PB |
| Modified: | 05/05/2021 | AM |

Flat Drop Optical Cable AERO DF03 up to 24 fibers



*not to scale

APPLICATION:

For installation on poles or walls
Can be installed in pipelines
Fully dielectric cable
For installation along power lines with an operation voltage below 150 kV and producing space potential below 4 kV.

DESIGN:

Central loose tube (PBT) with filling compound
Up to 24 fibres in a central tube
Two FRP strength elements
Aramid yarns as strain relief and water absorbent
Ripcord for easy sheath removal
UV stabilized HDPE jacket

CABLE VARIANTS

| Variant | AERO DF03 | AERO DF03 |
|----------------------------|--|--|
| Fibre count [pcs] | 1-12 | 16-24 |
| Central tube diameter [mm] | 1,8 | 2,6 |
| Cable dimensions [mm] | 8,3 x 4,6 (typically $\pm 0,3$ max 8,9 x 5,1) | 8,7 x 5,0 (typically $\pm 0,3$ max 9,3 x 5,5) |
| Cable weight [kg/km] | 37 | 38 |
| Max. static tension [N] | 500 | 500 |
| Max allowable tension [N] | 1800 | 1800 |

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS (ALL VARIANTS)

| | | |
|---------------------|-------------------------|---|
| Crush performance | 5000 [N/10 cm] | IEC 60794-1-21-E3, attenuation \leq 0.05 dB, no damage* |
| Bending performance | 20 x D (10 cycles) | IEC 60794-1-21-E6, attenuation \leq 0.05 dB, no damage* |
| Water penetration | 3m sample, 1m head, 24h | IEC 60794-1-22-F5, no leakage |
| Temperature range: | | IEC 60794-1-22-F1, attenuation \leq 0.05 dB/km* |
| | Installation | -15... +55 [°C] |
| | Operation | -40... +70 [°C] |
| | Transport & Storage | -40... +70 [°C] |

(*) The declared values apply only to cables with single-mode fibres and are given for 1550nm wavelength.

APPLICATION AND CABLE SPAN CHARACTERISTIC

| Loading Conditions** | Span [m] | Installed Sag (2%) [m] | Force [N] | Total Sag [m] | Sag Vertical [m] | Sag horizontal [m] |
|----------------------|----------|------------------------|-----------|---------------|------------------|--------------------|
| NSC Light | 140 | 2,8 | 1800 | 5,0 | 1,6 | 4,8 |
| NSC Medium | 75 | 1,5 | 1800 | 2,8 | 2,2 | 1,8 |
| NSC Heavy | 40 | 0,8 | 1800 | 1,5 | 1,3 | 0,8 |

(**) values in the table above are for the construction: 1-12F

OPTICAL FIBRE AND LOOSE TUBES COLOUR IDENTIFICATION

For optical fibres and loose tube identification information please see DSH_Colors_CODE_XXXX document.

FIBRE PARAMETERS

For selected post-production optical fibres parameters please see DSH_OFP document.

| | | |
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MARKING

The following print (inkjet / laser or other suitable method) 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 DF03 4F SM G652D 1T4F "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

The accuracy of marking is $\pm 1\%$. 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. Identification information will be placed on the drum.

DELIVERY LENGTH

2000 – 8000 meters $\pm 5\%$, 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.

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