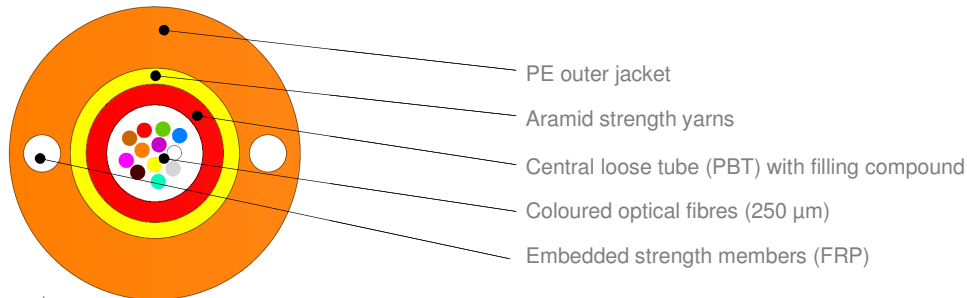


| | | |
|-----------|----------------------|----------|
| Type: | BURRY-DAC Drop cable | REV: 2.6 |
| Issued: | 14/05/2018 | AM |
| Modified: | 16/02/2020 | KP |

Direct buried single jacket central loose tube - Drop cable with FRP and aramid strength members - up to 24 fibres



*schematic drawing, not to scale

APPLICATION:

Optical access cable with aramid yarns reinforcement
Direct buried design
Fully dielectric cable
Last mile connection
High crush resistance (3,5kN)
Installation into existing ducts or direct buried

STRUCTURE AND COMPOSITION:

Central loose tube (PBT) with filling compound
Up to 24 optical fibres (250 µm)
Aramid yarns as strain relief and water absorbent
Embedded FRP strength members
Highly resistant outer jacket made of hard polyolefin material, UV resistant

DESIGNS:

| Variant | Quantity [pcs] | | Ø nominal (±0,4) [mm] | Nominal weight (±5%) [kg/km] |
|----------|----------------|-----------------|-----------------------------|------------------------------------|
| | Fibres | Fibres per tube | | |
| 1T x 2F | 2 | 2 | 6,2 | 32 |
| 1T x 4F | 4 | 4 | 6,2 | 32 |
| 1Tx 6F | 6 | 6 | 6,2 | 32 |
| 1T x 8F | 8 | 8 | 6,2 | 32 |
| 1T x 12F | 12 | 12 | 6,2 | 32 |
| 1T x 16F | 16 | 16 | 6,5 | 37 |
| 1T x 24F | 24 | 24 | 6,5 | 38 |

TECHNICAL AND ENVIRONMENTAL CABLE CHARACTERISTICS

| | | |
|-----------------------------|---|--|
| Max short term tensile load | IEC 60794-1-21-E1, $\Delta\alpha\leq 0,05$ dB/km, reversible | 650 [N] / $\epsilon=0,33\%$ / 800 [N] / $\epsilon=0,5\%$ |
| Max long term tensile load | IEC 60794-1-21-E1, $\Delta\alpha\leq 0,05$ dB/km, reversible | 250 [N] / $\epsilon=0,05\%$ |
| Crush performance | IEC 60794-1-21-E3, $\Delta\alpha\leq 0,05$ dB, reversible, no significant sheath damage | 3500 [N/10 cm] |
| Impact | IEC 60794-1-21-E4, $\Delta\alpha\leq 0,05$ dB, reversible | 20[J] / R=300[mm] / 3 times / distance ≥ 500 [mm] |
| Bending performance | IEC 60794-1-21-E6, $\Delta\alpha\leq 0,05$ dB, reversible | 15 x D / 50[N] / 20 cycles |
| Torsion | IEC 60794-1-21-E7, $\Delta\alpha\leq 0,05$ dB, reversible | 50[N] / ± 180 [°] / 20 cycles |
| Temperature range | | |
| Installation | | -15... +55 [°C] |
| Operation | IEC 60794-1-22-F1, $\Delta\alpha\leq 0,05$ dB/km, reversible | -40... +70 [°C] |
| Transport & Storage | | -40... +70 [°C] |
| Water penetration | IEC 60794-1-22-F5, no leakage | 3[m] sample, 1[m] head, 24[h] |

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 (black inkjet) 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

| | | |
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Example: FIBRAIN BURRY DAC 2F SM G657A1 FTTH ACCESS CABLE "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

The accuracy of marking is $\pm 1\%$. Remarking 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.

PACKAGING

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 $\pm 5\%$, 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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