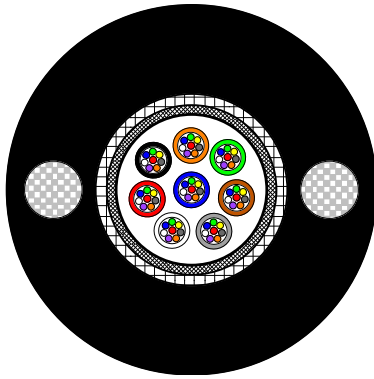


All dielectric outdoor Duct Flextube® cable

Cable Design

Adaptation of ST/FTR&D/8456 2004/02 L1041-L1042-L1043



- not to scale -

- **Micro-module:** Thin wall tubing (FlexTube®), filled with a suitable compound, housing 8 or 16 optical fibres.
- **Assembly of the micro-modules**
- **Water tightness:** dry core with swellable elements.
- **Protection / reinforcement yarns.**
- **Strength members:** glass fibre reinforced plastic material.
- **Outer Sheath:** HDPE.

Installation in ducts. The flexible micro-modules provide easier storage & faster installation and access to the fibres without specific tools.

Technical data

| No. of Fibres | | 8 -> 32 | 40 -> 64 | 72 -> 96 | 104 -> 144 |
|-------------------------|---------|---------------------------------|-------------------------------------|---------------------------------------|--------------|
| Design | | 1x8 -> 4x8 | 5x8 -> 8x8 | 9x8 -> 12x8 | 13x8 -> 18x8 |
| Module Ø | mm | 1.2 | | | |
| Rigid strength member Ø | mm | 1.8 | | | |
| Cable Diameter | mm | 10.6 | 11.4 | 12.8 | 13.5 |
| Cable Weight | kg / km | 90 | 95 | 115 | 130 |
| Max Tension | daN | 220 | | | |
| Minimum Bending Radius | mm | Without Tension 10 x Cable-Ø | | Under Maximum Tension 20 x Cable-Ø | |
| Temperature Range | °C | Installation - 5 to + 40 | Transport & Storage - 40 to + 70 | Operation - 30 to + 60 | |

Please refer to our General Installation, Safety & Handling recommendations before handling.

Main characteristics

| Test | Test Standard | Specified Value | Acceptance Criteria* |
|--|-------------------|----------------------------------|--|
| Max. Installation Tension (short term) | IEC 60794-1-2-E1 | See table above | $\Delta\alpha$ reversible |
| Crush | IEC 60794-1-2-E3 | 300 daN / 100 mm | $\Delta\alpha \leq 0.1$ dB |
| Impact | IEC 60794-1-2-E4 | 5 Nm, r=10mm, 3 impacts | $\Delta\alpha \leq 0.1$ dB |
| Torsion | IEC 60794-1-2-E6 | 1m, +-180° | $\Delta\alpha \leq 0.1$ dB |
| Temperature Cycling | IEC 60794-1-2-F1 | -30°C to +60°C -40°C to +70°C | $\Delta\alpha \leq 0.1$ dB/km $\Delta\alpha$ reversible |
| Water Penetration | IEC 60794-1-2-F5B | sample=3m, water=1m | No water leakage after 168 h |






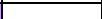


* values for single mode fibres, measurement performed at 1550 nm.

Optical Characteristics






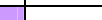






See the attached cabled optical fibre data sheet.







Identification

Fibre Colours

| No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--------|---|---|---|---|---|---|---|--|
| Colour | red | blue | green | yellow | violet | white | orange | grey |
| |  |  |  |  |  |  |  |  |

Buffer Tube Colours

| No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|--------|---|---|---|---|---|---|---|--|---|---|---|---|
| Colour | red | blue | green | yellow | violet | white | orange | grey | brown | black | aqua | pink |
| |  |  |  |  |  |  |  |  |  |  |  |  |

| No. | 13 | 14 | 15 | 16 | 17 | 18 |
|--------|---|---|---|---|---|---|
| Colour | red | blue | green | yellow | violet | white |
| |  |  |  |  |  |  |

Sheath Colour:

The outer sheath colour is black.

Sheath Marking:

The outer sheath is marked in 1 meter intervals as follows:

<Manufacturer> WW-YYYY <no. of fibre> F.O. ORANGE ESPAÑA <length marking in meter>

WW : week of manufacture

YYYY : year of manufacture

Logistic

Packing:

Wooden drums with protection.

Delivery Lengths:

Standard delivery lengths are 2 km, 4 km, 6 km, (8 km up to 144 fibres) with a tolerance of - 1% / + 3%

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