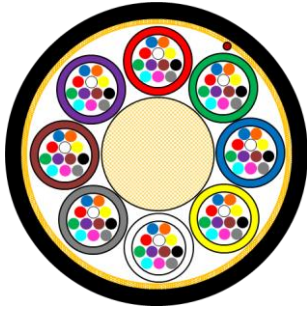


Outdoor microduct optical fibre cable

TV06255



-not to scale-

Cable Design

According to IEC/EN 60794

- **Central Strength Member (CSM):** glass fibres reinforced plastic rod (GRP).
- **Tubes:** thermoplastic material containing 12 optical fibres and filled with a suitable water tightness compound.
- **Stranding:** loose tubes, SZ stranded around the CSM.
- **Longitudinal Water Tightness:** water swellable materials (dry core).
- **Outer Sheath:** UV resistant HDPE, 1 ripcord beneath.

Cable Application

These outdoor Sirocco^{HD} microduct optical fibre cables are optimized for installation by blowing into microducts and protected microducts. Please refer to our Installation Guides, please ask to our sales office.

Technical Data

| | | | |
|------------------------|---------|-------------------------------------|-------------------------------------------------|
| No. of Fibres | | | 96 |
| Number of Fibres/Tube | - | | 12 |
| Tube Diameter – Ø | mm | | 1.1 |
| CSM/Enlargement – Ø | mm | | 1.7/- |
| Sheath Thickness | mm | | 0.4 |
| Cable Diameter – Ø | mm | | 4.6 ^{+0.2} |
| Cable Weight | kg / km | | 20 |
| Minimum Bending Radius | mm | Under Maximum Tension: 20 x Cable Ø | Without Tension: 15 x Cable Ø |
| Temperature Range | °C | Transport & Storage: -40 → +70 | Installation: -10 → +50 Operation: -30 → +60 |

Main Characteristics


| Test | Standard | Specified Value | Acceptance Criteria |
|---------------------|--------------------|--------------------------------|-----------------------------------------------------|
| Tensile Performance | IEC 60794-1-21-E1 | 500 N | $\Delta\alpha$ reversible, $\Delta l/l \leq 0.05\%$ |
| Crush | IEC 60794-1-21-E3 | 1000 N / 100 mm, 5 min | Attenuation reversible, no damage |
| Impact | IEC 60794-1-21-E4 | 2 J, 3 impacts, R = 300 mm | $\Delta\alpha \leq 0.1$ dB after test |
| Repeated Bending | IEC 60794-1-21-E6 | R = 20 x OD, 25 cycles, 100 N | $\Delta\alpha \leq 0.1$ dB, no damage |
| Torsion | IEC 60794-1-21-E7 | $\pm 180^\circ$, 2 m, 100 N | $\Delta\alpha \leq 0.1$ dB, no damage |
| Cable Bend | IEC 60794-1-21-E11 | R = 20 x OD, 5 turns, 3 cycles | $\Delta\alpha \leq 0.05$ dB after test |
| Temperature Cycling | IEC 60794-1-22-F1 | -30 °C to +60 °C | $\Delta\alpha \leq 0.1$ dB/km |
| Water Penetration | IEC 60794-1-22-F5B | 3 m sample, 1 m water, 24 h | no water penetration |

Optical Characteristics

See the attached BendBright[®] XS 200µm cabled optical fibre data sheet.

Identification

Fibre Colours ⁽¹⁾:

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

Tube Colours ⁽¹⁾:

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

(1) Other colour set available upon agreement.

Sheath Colour:

The outer sheath colour is black.

Sheath Marking ⁽²⁾:

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

<Manufacturer> <year> SIROCCO HD <no. and type of fibre> <length marking in meters>

(2) Customized marking available upon agreement.

Logistic

Packing: Wooden drums with protection.

Delivery Lengths ⁽³⁾: Standard delivery length is 4 km with a tolerance of - 1% / + 3%.

(3) Other delivery lengths available upon agreement.

All optical measurements in accordance with ITU-T G650 recommendations

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