

Outdoor microduct optical fibre cable

TV06256



-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 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		1.35
CSM/Enlargement – Ø	mm		2.3/-
Sheath Thickness	mm		0.5
Cable Diameter – Ø	mm		6.0 ^{±0.3}
Cable Weight	kg / km		35
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: -5 → +55 Operation: -30 → +60

Main Characteristics

Test	Standard	Specified Value	Acceptance Criteria
Tensile Performance	IEC 60794-1-21-E1	700 N	$\Delta\alpha$ reversible, $\Delta l/l \leq 0.6\%$
Crush	IEC 60794-1-21-E3	500 N / 100 mm, 5 min	$\Delta\alpha \leq 0.1$ dB under test, no damage
Impact	IEC 60794-1-21-E4	1 J, 3 impacts, R = 300 mm	$\Delta\alpha \leq 0.1$ dB after test, no damage
Repeated Bending	IEC 60794-1-21-E6	R = 40 x OD, 25 cycles, 2 s	$\Delta\alpha \leq 0.1$ dB, no damage
Torsion	IEC 60794-1-21-E7	$\pm 180^\circ$, 2 m, 45 N	$\Delta\alpha \leq 0.1$ dB after test, no damage
Temperature Cycling	IEC 60794-1-22-F1	-30 °C to +60 °C	$\Delta\alpha \leq 0.15$ dB/km under test, reversible
Water Penetration	IEC 60794-1-22-F5B	1 m sample, 1 m water, 24 h	no water penetration

Optical Characteristics


See the attached 250µm 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 <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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