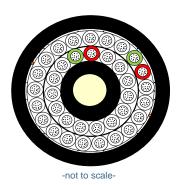


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Outdoor microduct optical fibre cable

TV05778



Cable Design

According to IEC/EN 60794

- Optical Fibres: 250µm single-mode.
- Central Strength Member (CSM): glass fibres reinforced plastic rod (GRP) with over-sheath.
- 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, 2 ripcords 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 General Installation, Safety & Handling recommendations handling.

Technical Data

No. of Fibres		432
Layout (Tubes x Fibres)	-	36 x 12
Tube Diameter – Ø	mm	1.65
CSM/Enlargement – Ø	mm	3.0 / 6.5
Sheath Thickness	mm	0.8
Cable Diameter – Ø	mm	15.0
Cable Weight	kg / km	185
MIT (Maximum Installation Tension)	N	1850

Minimum Bending Radius	mm	Under Maximum Tension: 20 x Cable Ø		Without Tension: 10 x Cable Ø	
Temperature Range	°C	Transport & Storage: -40 → +70	Installation: -20 → +45		Operation: -30 → +60

Main Characteristics

Test	Standard	Specified Value	Acceptance Criteria
Tensile Performance	IEC 60794-1-21-E1	1 x W, see table above	$\Delta \alpha \le 0.05 \text{ dB}, \Delta I/I \le 0.60\%$
Crush	IEC 60794-1-21-E3	1500 N / 100 mm, 1 min	∆α ≤ 0.05 dB
Impact	IEC 60794-1-21-E4	1 J, 3 impacts, R = 300 mm	∆α ≤ 0.05 dB
Repeated Bending	IEC 60794-1-21-E6	R = 10 x OD, 25 cycles	Cable integrity
Torsion	IEC 60794-1-21-E7	± 360 °, 2 m	∆α ≤ 0.05 dB
Kink	IEC 60794-1-21-E10	R = 10 x OD	Cable integrity
Bend	IEC 60794-1-21-E11	R = 10 x OD, 4 turns, 3 cycles	∆α ≤ 0.05 dB
Temperature Cycling	IEC 60794-1-22-F1	-30 °C to +60 °C	∆α ≤ 0.05 dB/km
	1LC 00134-1-22-F1	-40 °C to +60 °C	∆α ≤ 0.15 dB/km
Water Penetration	IEC 60794-1-22-F5B	3 m sample, 1 m water, 24 h	no water penetration
Ageing	IEC 60794-1-22-F9	168 hours, +85 °C	∆α ≤ 0.25 dB/km, 0.10 dB/km average

Optical Characteristics

See the attached 250 μm cabled optical fibre data sheet.

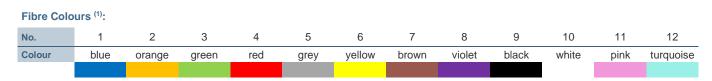




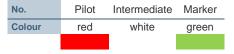
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Identification



Tube Colours (inner and oter layer) (1):



(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:

(2) Customized marking available upon agreement.

Logistic

Packing:	Plywood reels or wooden drums with protection.		
Delivery Lengths (3):	Standard delivery length is 2 km.		
	Maximum delivery length is 4 km.		

(3) Other delivery lengths available upon agreement.

All optical measurements in accordance with ITU-T G650 recommendations

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