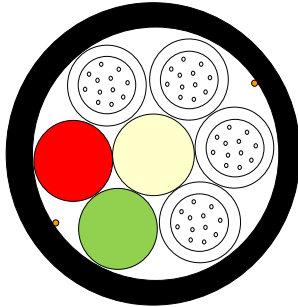


Outdoor microduct optical fibre cable

TV06677



-not to scale-

Cable Design

According to IEC/EN 60794

- **Optical Fibres:** 250µm single-mode.
- **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, 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		Up to 72		
Layout (Tubes x Fibres)	-	Max. 6 x 12		
Tube Diameter – Ø	mm	1.65		
CSM/Enlargement – Ø	mm	1.7		
Sheath Thickness	mm	0.4		
Cable Diameter – Ø	mm	5.8		
Cable Weight	kg / km	28		
MIT (Maximum Installation Tension)	N	280		
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: -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	$\Delta\alpha \leq 0.05$ dB, $\Delta I/I \leq 0.60\%$
Crush	IEC 60794-1-21-E3	1500 N / 100 mm, 1 min	$\Delta\alpha \leq 0.05$ dB
Impact	IEC 60794-1-21-E4	1 J, 3 impacts, R = 300 mm	$\Delta\alpha \leq 0.05$ dB
Repeated Bending	IEC 60794-1-21-E6	R = 15 x OD, 25 cycles	Cable integrity
Torsion	IEC 60794-1-21-E7	$\pm 360^\circ$, 2 m	$\Delta\alpha \leq 0.05$ dB
Kink	IEC 60794-1-21-E10	R = 15 x OD	Cable integrity
Bend	IEC 60794-1-21-E11	R = 15 x OD, 4 turns, 3 cycles	$\Delta\alpha \leq 0.05$ dB
Temperature Cycling	IEC 60794-1-22-F1	-30 °C to +60 °C -40 °C to +60 °C	$\Delta\alpha \leq 0.05$ dB/km $\Delta\alpha \leq 0.15$ 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	$\Delta\alpha \leq 0.25$ dB/km, 0.10 dB/km average

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	blue	orange	green	red	grey	yellow	brown	violet	black	white	pink	turquoise

Tube Colours ⁽¹⁾:

No.	Pilot	Intermediate	Marker
Colour	red	white	green

When fillers are required, red and green tubes become red and green fillers, respectively. If more fillers are required, white tubes become yellow fillers.

(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:

<length marking in meters>M  <no. of fibres>F <fibre type> PRYSMIAN PGH <year of manufacture>

(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 6 km.

(3) Other delivery lengths available upon agreement.

All optical measurements in accordance with ITU-T G650 recommendations

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