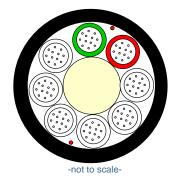
SIROCCO^{HD}

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Outdoor microduct optical fibre cable with 200µm fibres

TV06680



Cable Design

According to IEC/EN 60794

- **Optical Fibres:** 200µm single-mode G.657.A2.
- 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^{HD} microduct optical fibre cables are optimized for installation by blowing into microducts and protected microducts. Please refer to our General Installation, Safety & Handling recommendations before handling.

Technical Data

No. of Fibres		96
Layout (Tubes x Fibres)	-	8 x 12
Tube Diameter – Ø	mm	1.0
CSM/Enlargement – Ø	mm	1.7
Sheath Thickness	mm	0.5
Cable Diameter – Ø	mm	4.7
Cable Weight	kg / km	20
MIT (Maximum Installation Tension)	Ν	200

Minimum Bending Radius	mm	Under Maximum Tension: 20	x Cable Ø	Without Tension: 50 x CSM Ø			
Temperature Range	°C	Transport & Storage: -40 → +70	Installation	-20 → +45	Operation: $-20 \rightarrow +60$		

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	500 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 = 50 x CSM Ø, 25 cycles	Cable integrity		
Torsion	IEC 60794-1-21-E7	± 360 °, 2 m	∆α ≤ 0.05 dB		
Kink	IEC 60794-1-21-E10	R = 50 x CSM Ø	Cable integrity		
Bend	IEC 60794-1-21-E11	R = 50 x CSM Ø, 4 turns, 3 cycles	∆α ≤ 0.05 dB		
Temperature Cycling	IEC 60794-1-22-F1	-20 °C to +60 °C	∆α ≤ 0.05 dB/km		
	120 00794-1-22-1 1	-30 °C to +60 °C	$\Delta \alpha \le 0.15 \text{ dB/km}$		
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	$\Delta \alpha \le 0.25 \text{ dB/km}, 0.25 \text{ dB/km}$ average		

Optical Characteristics

See the attached 200µm cabled optical fibre data sheet.





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Identification

Fibre Colo	ours ⁽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⁾:



(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

J				
Packing:	Plywood or plastic reels.			
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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All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group: any modification or alteration afterwards of product may give different result.

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