

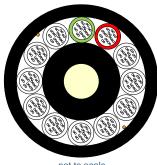


# **Prysmian**

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# Outdoor microduct optical fibre cable with 200µm fibres

# TV06682



### 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) with or without
- Tubes: thermoplastic material containing 24 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		144	192	288	432	552
Layout (Tubes x Fibres)	-	6 x 24	8 x 24	12 x 24	18 x 24 (5 fillers)	23 x 24
Tube Diameter – Ø	mm			1.3		
CSM/Enlargement – Ø	mm	1.4	2.3	3.0 / 3.9	2.4	
Sheath Thickness	mm	0.5	0.4	0.5	0.4	45
Cable Diameter – Ø	mm	5.0	5.7	7.5	8.	5
Cable Weight	kg/km	23	30	54	65	
MIT (Maximum Installation Tension)	N	230	300	540	650	

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

#### **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 = 20 x Cable 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 = 20 x Cable Ø	Cable integrity
Bend	IEC 60794-1-21-E11	R = 20 x Cable Ø, 4 turns, 3 cycles	∆α ≤ 0.05 dB
Temperature Cycling	IEC 60794-1-22-F1	-10 °C to +40 °C	Δα ≤ 0.05 dB/km
		-20 °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 200µm cabled optical fibre data sheet.





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#### Identification

#### Fibre Colours (1): No. 2 3 5 6 7 8 9 10 12 Colour violet black blue orange green red grey yellow brown white pink turquoise No. 13 16 19 20 22 23 24 14 15 17 18 21 Colour orange green red white yellow pink orange green red white yellow pink П ш П

### Tube Colours (inner and outer layer) (1):

No.	Pilot	Intermediate	Marker
Colour	red white		green

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 \* < < </pre> <no. of fibres>F G657A2 PRYSMIAN PGH <year of manufacture>

Customized marking available upon agreement.

### Logistic

Packing:	Plywood or plastic reels.		
Delivery Lengths (3):	Standard delivery length is 2 km.		
	Maximum delivery length is 4 km for double layer and 6km for single layer construction.		

(3) Other delivery lengths available upon agreement.

All optical measurements in accordance with ITU-T G650 recommendations

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