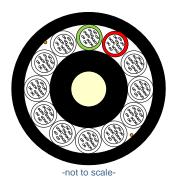




# A Brand of Prysmian Group

# Outdoor microduct optical fibre cable with 200µm fibres

# TV06490



### **Cable Design**

### According to IEC/EN 60794

- Optical Fibres: 200µm single-mode.
- Central Strength Member (CSM): glass fibres reinforced plastic rod (GRP) with or without over-sheath
- 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 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
Layout (Tubes x Fibres)	-	6 x 24	8 x 24	12 x 24
Tube Diameter – Ø	mm		1.65	
CSM/Enlargement – Ø	mm	1.7	2.0 / 2.7	2.4 / 5.0
Sheath Thickness	mm		0.4	
Cable Diameter – Ø	mm	5.8	6.8	9.1
Cable Weight	kg / km	30	40	70
MIT (Maximum Installation Tension)	N	300	400	700

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 → +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	1000 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	IEC 60704-1-22-E1	-20 °C to +60 °C	∆α ≤ 0.05 dB/km
	-30 °C to +70 °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 200 $\mu m$  cabled optical fibre data sheet.





# **Prysmian**

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### Identification

#### Fibre Colours (1): 7 No. 2 3 4 5 6 8 9 10 11 12 Colour violet black blue orange green red grey yellow brown white pink turquoise No. 13 14 15 16 19 20 22 23 24 17 18 21 Colour orange green red white yellow pink orange green red white yellow pink П П П

### Tube Colours (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:

(2) Customized marking available upon agreement.

### Logistic

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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