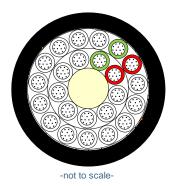
# **Prysmian**

## A Brand of Prysmian Group

## **Duct optical fibre cable**

## TV06085



#### Cable Design

#### According to IEC/EN 60794

- Optical Fibres: 250µm single-mode G.657.A1.
- 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 duct optical fibre cables are optimized for blowing, jetting or pulling into ducts. Please refer to our General Installation, Safety & Handling recommendations before handling.

#### **Technical Data**

No. of Fibres		288			
Design	Ref	60093567			
Layout (Tubes x Fibres)	-	24 x 12			
Tube Diameter – Ø	mm	1.9			
CSM/Enlargement – Ø	mm	4.0			
Sheath Thickness	mm	1.55			
Cable Diameter – Ø	mm	15.1			
Cable Weight	kg / km	190			
MIT (Maximum Installation Tension)	N	2850			
Minimum Bending Radius	mm	Under Maximum Tension: 20 x Cable Ø Without Tension: 15 x Cable Ø		ut Tension: 15 x Cable 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	1.5 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, 10 min	∆α ≤ 0.05 dB
Impact	IEC 60794-1-21-E4	10 J, 3 impacts, R = 300 mm	Δα ≤ 0.05 dB
Repeated Bending	IEC 60794-1-21-E6	R = 15 x OD, 25 cycles	Cable integrity
Torsion	IEC 60794-1-21-E7	±180°, 2 m	∆α ≤ 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	Δα ≤ 0.05 dB
Temperature Cycling IE	IEC 60794-1-22-F1	-20 °C to +60 °C	$\Delta \alpha \le 0.05 \text{ dB/km}$
	IEC 00/94-1-22-F1	-30 °C to +70 °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 Δα ≤ 0.25 dB/km, 0.10 dB/km average		Δα ≤ 0.25 dB/km, 0.10 dB/km average

#### **Optical Characteristics**

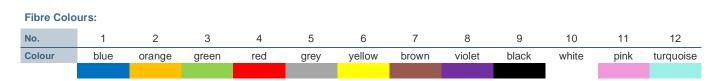
See the attached optical fibre data sheet ref: 250µm single-mode G.657.A1 (CH).





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#### Identification



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

No.	Pilot	Intermediate	Marker
Colour	red	natural	green

#### **Sheath Colour:**

The outer sheath colour is black.

#### **Sheath Marking:**

The outer sheath is marked in 1-meter intervals as follows:

<length mark<="" th=""><th>king in meters&gt;M + &lt; &lt; no. of fibres&gt;F G657A1 PRYSMIAN PGH &lt; year of manufacture&gt;</th></length>	king in meters>M + < < no. of fibres>F G657A1 PRYSMIAN PGH < year of manufacture>
Logistic	
Packing:	Wooden drums with protection.
Delivery Lengths:	Standard delivery length is 2 km.
	Maximum delivery length is 4 km

All optical measurements in accordance with ITU-T G650 recommendations

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