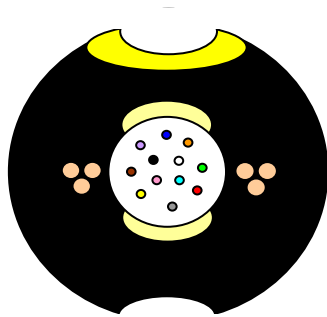


## Aerial drop optical fibre cable

### TV06051



-not to scale-

#### Cable Design

According to IEC/EN 60794

- **Optical Fibre:** 250µm single-mode.
- **Tube:** thermoplastic material, containing between 1 and 24 single-mode optical fibres and filled with a suitable water tightness compound.
- **Strength Member:** 3 x 0.32mm brass plated steel wires.
- **Longitudinal Water Tightness:** water swellable materials (core only).
- **Outer Sheath:** UV resistant HDPE.
- **Grooves/Stripes:** Indicate planes for easy sheath removal.

#### Cable Application

This loose tube optical drop cable is design for aerial and/or duct applications and is suitable for use under 11 kV power cables. Please refer to our General Installation (Datasheet Ref: CIG059) and Safety & Handling recommendations (Generic Optical cable MSDS - Datasheet Ref: 9980-02-1) before handling.

#### Technical Data

No. of Fibres		1	2	4	12	24
Layout	-	Single central tube				
Unit Diameter – Ø	mm	2.2				
Sheath Thickness	mm	1.6				
Cable Diameter – Ø	mm	6.0				
Cable Weight	kg / km	32				33
MIT (Maximum Installation Tension)	N	150				
MAT (Maximum Allowable Tension)	N	1200				
Breaking Load	N	1350 – 2000				
Minimum Setting Diameter	mm	120				
Temperature Range	°C	Transport & Storage: -40 → +70	Installation: -20 → +45		Operation: -20 → +60	
Climatic Conditions		Sag %	Maximum Span (m)			
Max. wind speed (km/hr)	Max. ice loading (radial thickness)	1.8	68			
97 0	none 5mm					

#### Main Characteristics

Test	Standard	Specified Value	Acceptance Criteria
Maximum Tension MAT	IEC 60794-1-21-E1	1200 N	$\Delta\alpha \leq 0.05$ dB, $\Delta I/I \leq 0.80\%$
Crush	IEC 60794-1-21-E3	2000 N / 100 mm, 10 min	$\Delta\alpha \leq 0.05$ dB
Impact	IEC 60794-1-21-E4	2 J, 3 impacts, R = 300mm	$\Delta\alpha \leq 0.05$ dB
Torsion	IEC 60794-1-21-E7	$\pm 360^\circ$ , 2 m	$\Delta\alpha \leq 0.05$ dB
Kink	IEC 60794-1-21-E10	D = 10 x OD	Cable integrity
Bend	IEC 60794-1-21-E11	D = 10 x OD, 3 turns, 5 cycles	$\Delta\alpha \leq 0.05$ dB
Temperature Range	IEC 60794-1-22-F1	-20 °C to +60 °C -40 °C to +70 °C	$\Delta\alpha \leq 0.05$ dB/km $\Delta\alpha \leq 0.15$ dB/km
























<b>Water Penetration</b>	IEC 60794-1-22-F5B	3 m sample, 1 m water, 24 h	no water penetration (core only)
<b>Ageing</b>	IEC 60794-1-22-F9	168 hours, +85 °C	$\Delta\alpha \leq 0.25$ dB/km, $\Delta\alpha \leq 0.10$ dB/km average

### Optical Characteristics


See the attached 250µm cabled optical fibre data sheet.

### Identification

#### Fibre Colours <sup>(1)</sup>:

No.	1	2	3	4	5	6	7	8	9	10	11	12
<b>Colour</b>	blue	orange	green	red	grey	yellow	brown	violet	black	white	pink	turquoise
												
No.	13	14	15	16	17	18	19	20	21	22	23	24
<b>Colour</b>	orange	green	red	white	yellow	pink	orange	green	red	white	yellow	pink
												

#### Unit Colours <sup>(1)</sup>:

No.	1
<b>Colour</b>	natural
	

(1) Other colour set available upon agreement.

#### Sheath Colour:

The outer sheath colour is black with yellow stripe.

#### Sheath Marking <sup>(2)</sup>:

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

<length marking in meters>M  FIBRE DROP CABLE <no. of fibres>F PRYSMIAN PGH <year of manufacture>

(2) Customized marking available upon agreement.

### Logistic

**Packing:** Plywood reels.

**Delivery Lengths <sup>(3)</sup>:** 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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