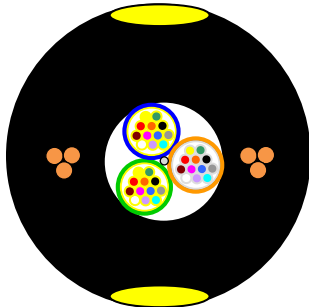


Aerial drop optical fibre cable

TV06055



-not to scale-

Cable Design

According to IEC/EN 60794

- **Optical Fibre:** 250µm single-mode.
- **Units:** 12 single-mode optical fibres bound together in acrylate resin to form a single unit.
- **Strength Member:** 3 x 0.32mm brass plated steel wires.
- **Longitudinal Water Tightness:** water swellable materials (core only).
- **Outer Sheath:** UV resistant HDPE.
- **Stripes:** Indicate planes for easy sheath removal.

Cable Application

This multi-unit 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		12	24	36	48
Layout (Units x Fibres)	-	1 x 12 (3 fillers)	2 x 12 (2 fillers)	3 x 12	4 x 12
Unit Diameter – Ø	mm	1.3			
Sheath Thickness	mm	1.9			
Cable Diameter – Ø	mm	7.0			7.1
Cable Weight	kg / km	43			45
MIT (Maximum Installation Tension)	N	150			
MAT (Maximum Allowable Tension)	N	1200			
Breaking Load	N	1350 - 2000			
Minimum Setting Diameter	mm	140			
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 = 12 x OD	Cable integrity
Bend	IEC 60794-1-21-E11	D = 12 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

Water Penetration	IEC 60794-1-22-F5B	3 m sample, 1 m water, 24 h	no water penetration (core only)
Ageing	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 ⁽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

Unit Colours ⁽¹⁾:

No.	1	2	3	4
Colour	blue	orange	green	red

Fillers are coloured yellow.

(1) Other colour set available upon agreement.

Sheath Colour:

The outer sheath colour is black with yellow stripes.

Sheath Marking ⁽²⁾:

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 ⁽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

© Prysmian Group 2021, All Rights Reserved

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.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.