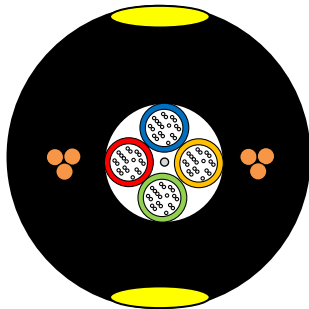


Aerial drop optical fibre cable

TV08265



-not to scale-

Cable Design

According to IEC/EN 60794

- **Optical Fibre:** 200µm single-mode G.657.A2.
- **Units:** 24 single-mode optical fibres in gel filled unit.
- **Strength Member:** 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.

Cable is suitable for Openreach PIA approval when tested together with tension clamps from PLP Preformed Line Products (item code FODE 5710070RP) and fibre locking bollards from OPT Services Ltd (item code T0216).

Technical Data

No. of Fibres			96
Layout (Units x Fibres)	-		4 x 24
Unit Diameter – Ø	mm		1.4
Sheath Thickness	mm		1.9
Cable Diameter – Ø	mm		7.1
Cable Weight	kg / km		45
MIT (Maximum Installation Tension)	N		150
MAT (Maximum Allowable Tension)	N		800
Breaking Load	N		1350 - 2000
Minimum Setting Diameter	mm		140
Temperature Range	°C	Transport & Storage: -30 → +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	800 N	$\Delta\alpha \leq 0.05$ dB, $\Delta I/I \leq 0.667\%$
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 impact, R = 300 mm 7.5 J, 3 impacts, R = 12.5 mm	$\Delta\alpha \leq 0.05$ dB
Torsion	IEC 60794-1-21-E7	$\pm 360^\circ$, 2 m	$\Delta\alpha \leq 0.05$ dB

Main Characteristics (continued)

Test	Standard	Specified Value	Acceptance Criteria
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	$\Delta\alpha \leq 0.05$ 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 200µm 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
No.	13	14	15	16	17	18	19	20	21	22	23	24
Colour	orange	green	red	white	yellow	pink	orange	green	red	white	yellow	pink

Unit Colours ⁽¹⁾:

No.	1	2	3	4
Colour	blue	orange	green	red

(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

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