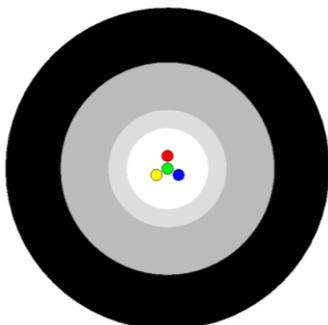


Optical Cables for Indoor/Outdoor Installation

Cable Design

IEC/EN 60794



- Figure (not to scale) -

- **Loose Tube:** thermoplastic material, containing up to 12 fibres and filled with a suitable water tightness compound.
- **Longitudinal Water Tightness:** dry core with water swellable elements
- **Dielectric Reinforcement and Rodent Protection:** fibreglass yarns
- **Outer Sheath:** LS0H Flame retardant jacket.

Technical data

No. of Fibres		2 - 12		
Loose Tube - Ø	mm	2.5		
Cable Diameter	mm	6.0 ± 0.1		
Cable Weight	kg / km	45		
Minimum Bending Radius	mm	Without Tension 40 mm		Under Maximum Tension 20 x Cable-Ø
Temperature Range	°C	Installation 0 to +40	Transport & Storage -30 to +70	Operation -20 to +60

Please refer to our General Installation, Safety & Handling recommendations before handling.

Main characteristics

Test	Test Standard	Specified Value	Acceptance Criteria
Max. Installation Tension	IEC 60794-1-2-E1	1000 N	$\Delta\alpha$ reversible
Crush	IEC 60794-1-2-E3	1100 N / 100mm	$\Delta\alpha$ reversible, no damage
Temperature Cycling	IEC 60794-1-2-F1	-20°C to + 60°C	$\Delta\alpha \leq 0.1$ dB/km
Water Penetration	IEC 60794-1-2-F5B	sample=3m, water column=1m	no water leakage in 24h

All optical measurements at 1550 nm (SMF) and 1300 nm (MMF). Acceptance criteria for MM fibres ≤ 0.2 dB for all mechanical test and ≤ 0.5 dB/km for temperature cycling, instead of 0.05 dB (SMF).

Optical Characteristics

See the attached cabled optical fibre data sheet.

Fire Performance

Test	Test Standard	Specified Value	Acceptance Criteria
Flame non-propagation (single cable)	IEC 60332-1	unburnt cable length	> 50 mm
Smoke Density	IEC 61034	transmission of light	> 60 %
Halogen Content	IEC 60754-1	halogen content	< 0.5 %
Corrosivity of Smoke Gases	IEC 60754-2	pH-value	≥ 4.3
Euroclass	EN 50575		Eca

Identification

Fibre Colours (acc. to EN187105)

No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	green	red	blue	yellow	grey	violet	brown	orange	white	black	pink	aqua

Sheath Colour:

The outer sheath colour is black.

Sheath Marking:

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

<Manufacturer> <year of manufacture> <no. and type of fibre> <length marking in meter>

Logistic

Packing:

Wooden drums with protection.

Delivery Length

Standard delivery length is 4 km with a tolerance of -1% / +3%

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All sizes and values without tolerances are reference values. Specifications are for product as supplied by PrysmianGroup: any modification or alteration afterwards of product may give different result.

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