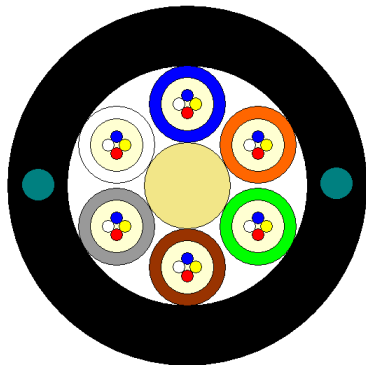


Optical fiber cable

Cable Design

IEC/EN 60794



- not to scale -

- **Central Strength Member (CSM):** glass fibre reinforced plastic rod (FRP), with plastic oversheathing when needed.
- **Loose Tube:** thermoplastic material, containing optical fibres and filled with a suitable water tightness compound.
- **Filler Elements:** thermoplastic rods, where needed.
- **Stranding:** loose tubes (and fillers), SZ stranded around the CSM.
- **Longitudinal Water Tightness:** dry core with water swellable tape.
- **Strength Elements:** 2 steel wires, diametrically opposed, embedded in the outer sheath. Nom. diameter: 1.3 mm.
- **2 Ripcords**
- **Outer Sheath:** HDPE.

Technical data

No. of Fibres			24
Design			6 x 4
Loose Tube / Filler - Ø	mm		2.1
CSM - Ø	mm		2.3
CSM-Oversheathing - Ø	mm		-
Outer Sheath Thickness	mm		2.2
Cable Diameter	mm		11.4
Cable Weight	kg / km		120
Minimum Bending Radius	mm	Without Tension 15 x Cable-Ø	Under Maximum Tension 20 x Cable-Ø
Temperature Range	°C	Installation - 10 to + 50	Transport & Storage - 40 to + 70 Operation - 40 to + 70

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	2700 N	$\Delta\alpha$ reversible, fibre strain $\leq 0.33\%$
Crush	IEC 60794-1-2-E3	2000 N / 100 mm, max. 15 min	$\Delta\alpha \leq 0.05$ dB after the test
Impact	IEC 60794-1-2-E4	10 Nm, 3 impacts, R= 300 mm	$\Delta\alpha \leq 0.05$ dB after the test
Cable Bend	IEC 60794-1-2-E11	R=20x D, 4 turns, 3 cycles	$\Delta\alpha \leq 0.05$ dB, no damage
Temperature Cycling	IEC 60794-1-2-F1	-40°C to +70°C	$\Delta\alpha \leq 0.05$ 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.

Optical Characteristics

See the attached cabled optical fibre data sheet.

Identification

Fibre Colours

No.	1	2	3	4
Colour	blue	orange	green	brown

Buffer Tube Colours

No.	1	2	3	4	5	6
Colour	blue	orange	green	brown	grey	white

Filler Elements Colours:

All filler elements are uncoloured (natural).

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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