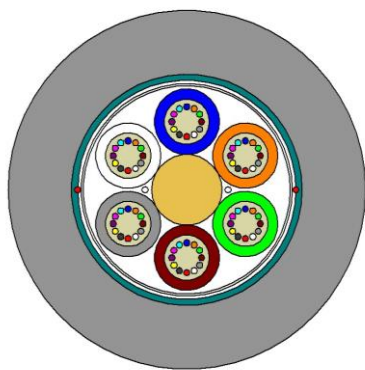


24F 48F 72F 96F Single Armor Single Jacket Cable
Cable Design
IEC/EN 60794-3-10


- not to scale -

- **Central strength member (CSM):** glass fibre reinforced plastic rod (FRP).
- **Tube:** thermoplastic material, containing 12 optical fibres and filled with a suitable water tightness compound.
- **Stranding:** the required number of elements (tubes or fillers) are SZ stranded around the central strength member.
- **Core wrapping:** water swellable tape (dry core).
- **Peripheral reinforcement:** glass yarns.
- **Armour:** corrugated steel tape. 2 ripcords beneath.
- **Outer Sheath:** HDPE.

Technical data

No. of Fibres		24	48, 72	96
Design (Elements × Fibres per Tube)		6x6	6x12	8x12
Loose Tube / Filler - Ø	mm	2.1	2.1	2.1
CSM/sheath diameter	mm	2.3	2.3	2.7/3.7
Outer sheath nominal thickness	mm	1.6	1.6	1.6
Cable nominal Diameter	mm	11.7	11.7	13.0
Cable Weight (±10%)	kg / km	124	124	153
Min. bending radius	mm	Without Tension 10 × Cable-Ø		Under Maximum Tension 20 × Cable-Ø
Temperature range	°C	Installation -10 -> +60;	Transport. & Storage -40 -> +70 ;	Operation -40-> +70

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

Main characteristics

Test	Standard	Value	Sanction*
Max. Installation Tension	IEC 60794-1-2-E1	2700N	$\Delta l/l$ fibre $\leq 0.6\%$, $\Delta\alpha$ reversible
Crush	IEC 60794-1-2-E3	2200N / 100mm	$\Delta\alpha \leq 0.1$ dB, cable integrity
Temperature Cycling	IEC 60794-1-2-F1	-40 -> +70°C	$\Delta\alpha \leq 0.1$ dB /km
Water Penetration	IEC 60794-1-2-F5C	sample=3m, water=1m	No water leakage after 24 hours

* values for single-mode fibres, all optical measurements performed at 1550 nm.

Optical Characteristics

See the attached cabled optical fibre data sheet.

Identification

Fibre Colours

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

Loose Tube and filler Colours:

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

All fillers are black.

Sheath Colour:

The outer sheath colour is black.

Sheath Marking:

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

Sheath Marking As Customer Requested

Logistic

Packing:

Wooden drums with protection.

Delivery Lengths:

Standard delivery length is 4 km with a tolerance of -5% / +5%.

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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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