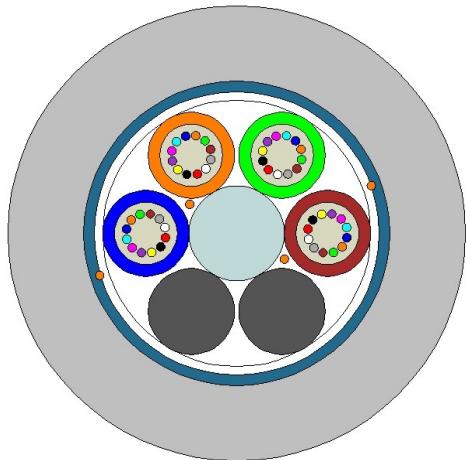


12F 24F 48F 96F 144F Single Armor Single Jacket Cable

Cable Design

IEC/EN 60794-3-10



- not to scale -

- **Central strength member (CSM):** glass fibre reinforced plastic rod (FRP) with coating when needed.
- **Tube:** thermoplastic material, containing up to 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).
- **Armour:** corrugated steel tape. 2 ripcords beneath.
- **Outer Sheath:** HDPE.

Technical data

No. of Fibres	12, 24	48	96	144
Design (Elements × Fibres per Tube)	6×6	6×12	8×12	12×12
Outer sheath nominal thickness	mm	1.6	1.6	1.6
Cable nominal Diameter	mm	11.5	11.9	13.3
Cable Weight	kg / km	127	134	160
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 60794-1-21-E1	2700N	fibre strain $\leq 0.6\%$, $\Delta\alpha$ reversible
Crush	IEC 60794-1-21-E3	2200N / 100mm	$\Delta\alpha \leq 0.1$ dB, cable integrity
Temperature Cycling	IEC 60794-1-22-F1	-40 -> +70°C	$\Delta\alpha \leq 0.05$ dB/km
Water Penetration	IEC 60794-1-22-F5C	sample=3m, water=1m	No water leakage after 24 hour

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

Optical Characteristics

See the attached cabled optical fibre data sheet.

Identification

Loose Tube

Single Armor Single Jacket Cable

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:

OPTICAL FIBER YYYY <fiber number & type> ARMOURED CABLE XXXXM

Logistic**Packing:**

Wooden drums with protection.

Delivery Lengths:

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

Loose Tube

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