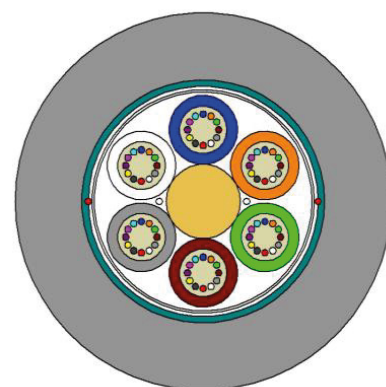


TD 24-099

24F 48F 72F 96F Single Armor Single Jacket Cable

Cable Design IEC/EN 60794-3-10

- **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.



- not to scale -

Datos técnicos

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 × Ø del cable	11.7	Under Maximum Tension 20 × Ø del cable
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	2700 N	$\Delta l/l$ fibre $\leq 0,6\%$, $\Delta\alpha$ reversible
Crush	IEC 60794-1-2-E3	2200 N / 100 mm	$\Delta\alpha \leq 0,1$ 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 = 3 m, water = 1 m	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
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 Reqeusted

Logistic

Packing:

Wooden drums with protection.

Delivery Lengths:

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

All measurements in accordance with ITU-T G650 recommendations

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

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