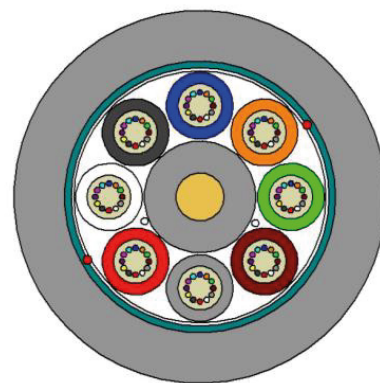


TD 24-428

96F Single Jacket Single Armoured Cable

Cable Design IEC/EN 60794-3-10

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



- not to scale -

Technical data

No. of Fibres	96
Design (Elements × Fibres per Tube)	8×12
Loose Tube / Filler - nominal Ø (mm)	2,0
CSM/sheath nominal diameter (mm)	2.5/3.5
Outer sheath nominal thickness (mm)	1,6
Cable nominal Diameter (mm)	12,5
Cable Weight (±10%) (kg/km)	142
Min. bending radius (mm)	Without Tension $10 \times \text{Cable-}\varnothing$ Under Maximum Tension $20 \times \text{Cable-}\varnothing$
Temperature range (°C)	Installation -10 → +60°C Transport. & Storage -40 → +70°C 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	fibre strain $\leq 0,6\%$, $\Delta\alpha$ 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	$\Delta\alpha \leq 0,05$ 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
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:

PRYSMIAN <Year of manufacture> <Fiber Count & Fiber type> ARMOURED CABLE XXXXM

Logistic

Packing:

Wooden drums with protection.

Delivery Lengths:

Standard delivery length is 4 km with a tolerance of $\pm 5\%$.

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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