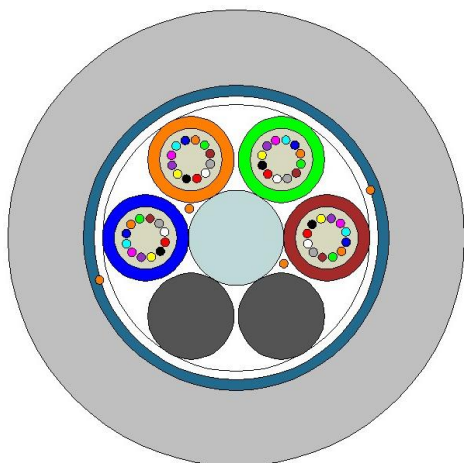


## Single Jacket Single Armoured Cable

### 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		4, 8	6, 12, 24	48	96	144	192	288
Design (Elements × Fibres per Tube)		6x4	6x6	6x12	8x12	12x12	6x12+ 12x12	9x12+ 15x12
Loose Tube / Filler - nominal Ø	mm	2.1	2.2	2.2	2.2	2.2	2.2	2.2
CSM/sheath nominal diameter	mm	2.3	2.5	2.7/3.9	2.7/6.9	2.5	2.7/4.6	
Outer sheath nominal thickness	mm	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Cable nominal Diameter	mm	11.5	11.9	13.3	16.3	16.6	18.7	
Cable Weight	kg / km	130	140	171	240	248	313	
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	fibre strain ≤ 0.33%, Δα reversible
Crush	IEC 60794-1-2-E3	2200N / 100mm	Δα ≤ 0.1 dB, cable integrity
Temperature Cycling	IEC 60794-1-2-F1	-40 -> +70°C	Δα ≤ 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
Tube Colour	blue	orange	green	brown	grey	white	red	black	yellow	violet	pink	aqua
Tube No.	13	14	15	16	17	18	19	20	21	22	23	24
Tube Colour	blue	orange	green	brown	grey	white	red	natural	yellow	violet	pink	aqua
Tracer Colour	black	black	black	black	black	black	black	black	black	black	black	black

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  $\pm 5\%$ .

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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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