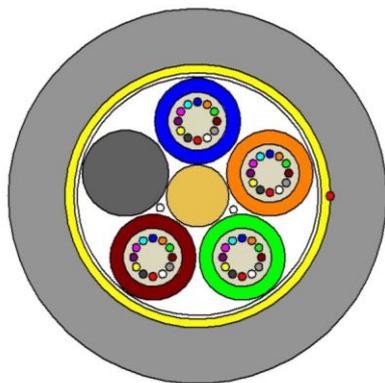


12F 24F 48F ADSS Single Jacket Span 120m

Cable Design

IEC/EN 60794-3-20


- not to scale -

- **Central strength member (CSM):** glass fibre reinforced plastic material (FRP) with PE 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-blocking tape & yarns (dry core).
- **Peripheral reinforcement:** aramid yarns.
- **Outer Sheath:** HDPE. 1 ripcord beneath.

Technical data

No. of Fibres		12, 24	48
Design (Elements x Fibers / Tube)		5x6	5x12
Loose Tube / Filler - Ø	mm	2.1	2.2
CSM/sheath diameter	mm	1.6	1.8
Outer sheath thickness	mm	1.5	1.5
Cable normal Diameter	mm	9.3	9.7
Cable Weight ($\pm 10\%$)	kg / km	66	71
Maximum span	m	120	
Minimum sag	%	1.5	
NESC conditions	-	NESC light	
Maximum installation tension	N	600	900
Max. Operating tension	N	1600	1700
Min. bending radius	mm	Without Tension 10 x Cable-Ø	Under Maximum Tension 20 x 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*
Maximum installation tension	IEC 60794-1-2-E1	see above table	no visible fibre strain, $\Delta\alpha$ reversible
Max. Operating tension	IEC 60794-1-2-E1	see above table	fibre strain $\leq 0.2\%$, $\Delta\alpha$ reversible
Crush	IEC 60794-1-2-E3	1500 N / 100mm	$\Delta\alpha < 0.1$ dB, cable integrity
Temperature range	IEC 60794-1-2-F1	-40 -> +70°C	$\Delta\alpha < 0.1$ 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 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

Fillers are Black.

Sheath Marking:

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

PRYSMIAN <year-month of manufacture> <fiber type x fiber count> ADSS SPAN XXXM <length marking in meter>

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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