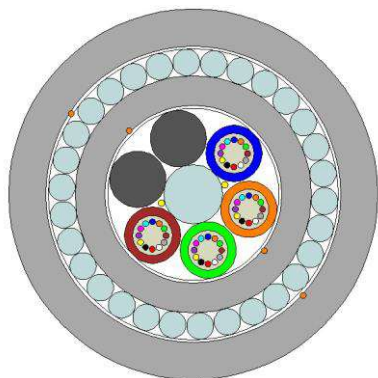


## ADSS Double Jacket FRP Armoured Span 100m

### Cable Design

IEC/EN 60794-3-20



- not to scale -

- **Central strength member (CSM):** glass fibre reinforced plastic material (FRP).
- **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 (dry core).
- **Inner Sheath:** PE. 1 ripcord beneath.
- **Peripheral reinforcement:** round rod armour for rodent protection, wrapped with tape.
- **Outer Sheath:** HDPE. 2 ripcords beneath.

### Technical data

No. of Fibres		4, 8	6, 12, 24	36, 48, 72	96	144
Design (Element x Fibre/Tube)		6x4	6x6	6x12	8x12	12x12
Loose Tube / Filler - Ø	mm	2.0	2.1	2.1	2.1	2.1
CSM/sheath diameter	mm	2.2	2.3	2.7/3.7	2.7/6.7	2.7/6.7
FRP	mm	1.0	1.0	1.0	1.0	1.0
Inner sheath thickness	mm	0.8	0.8	0.8	0.8	0.8
Outer sheath thickness	mm	1.6	1.6	1.6	1.6	1.6
Cable Diameter	mm	13.8	14.1	15.5	18.5	
Cable Weight	kg / km	162	169	201	278	
Maximum installation tension	N	2000	2100	2500	3400	
Max. Operating tension	N	3500	3600	4000	5300	
Maximum span	m	<b>100</b>				
Minimum sag	%	1.0				
NESC conditions		NESC light				
Min. bending radius	mm	Without Tension 15 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*
Max. 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 60794-1-21-E3	4000 N / 100mm	$\Delta\alpha \leq 0.1$ dB , cable integrity
Temperature range	IEC 60794-1-22-F1	-40 -> +70	$\Delta\alpha \leq 0.1$ dB /km
Water Penetration	IEC 60794-1-22-F5C	sample=3m, water=1m (cable	No water leakage after 24 hour

core & inner sheath)

\* 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

Fibre No.	1	2	3	4	5	6	7	8	9	10	11	12
Fibre Colour	blue	orange	green	brown	grey	white	red	black	yellow	violet	pink	aqua

### Buffer 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 Colour:

Inner and outer sheath colour is 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 FRP ARMORED SPAN  
XXXM <length marking in meter>**

## Logistic

### Packing:

Wooden drums with protection.

### Delivery Lengths:

Standard delivery length is 2km 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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