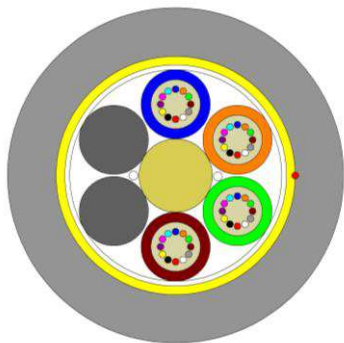


ADSS Single Jacket Span 100m

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		4, 8	6, 12, 24	36, 48, 72	96	144
Design (Elements x Fibers / Tube)		6x4	6x6	6x12	8x12	12x12
Loose Tube / Filler - Ø	mm		2.1	2.2	2.2	2.2
CSM/sheath diameter	mm		2.3	2.5	2.7/3.9	2.7/6.9
Outer sheath thickness	mm		1.5	1.5	1.5	1.5
Cable normal Diameter	mm		10.0	10.4	11.7	14.7
Cable Weight	kg / km		77	80	101	156
Maximum span	m			100		
Minimum sag	%			1.0		
NESC conditions	-			NESC light		
Maximum installation tension	N		1000	1000	1200	1900
Max. Operating tension	N		1900	2000	2400	3400
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	2200 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

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

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 $\pm 5\%$.

© PrysmianGroup 2021, All Rights Reserved

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.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of PrysmianGroup. The information is believed to be correct at the time of issue. PrysmianGroup reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by PrysmianGroup.