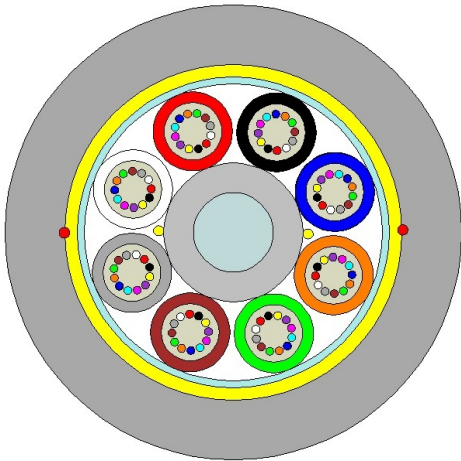


12-144F Single Jacket ADSS CABLE Span 80m

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 16 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. 2 ripcords beneath.

Technical data

No. of Fibres		12, 24	16, 32	48	96	128	144
Design (Elements x Fibers / Tube)		6x6	6x8	6x12	8x12	8x16	12x12
Outer sheath thickness min. average	mm	1.6	1.6	1.6	1.6	1.6	1.6
Cable normal Diameter	mm	9.8	9.8	10.2	11.5	13.4	14.4
Cable Weight	kg / km	74	74	77	98	128	150
Maximum span	m	80	80	80	80	80	80
Minimum sag	%	1.0	1.0	1.0	1.0	1.0	1.0
Maximum wind speed	Km/h	96	96	96	96	96	96
Maximum installation tension	KN	0.8	0.8	0.8	1.0	1.3	1.5
Max. Operating tension	KN	1.5	1.5	1.6	2.0	2.3	2.5
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*
Maximum installation tension	IEC 60794-1-21-E1	see above table	no visible fibre strain, Δα reversible
Max. Operating tension	IEC 60794-1-21-E1	see above table	fibre strain ≤ 0.2%, Δα reversible
Crush	IEC 60794-1-2-E3	2200 N / 100mm	Δα < 0.1 dB, cable integrity
Temperature range	IEC 60794-1-2-F1	-40 -> +70°C	Δα < 0.1 dB /km
Water Penetration	IEC 60794-1-2-F5C	sample=3m, water=1m	No water leakage after 24 hour

\* values for single-mode fibres, all optical measurements performed at 1550 nm

Loose Tube

ADSS Cable

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
Fibre No.	13	14	15	16								
Fibre Colour	blue	orange	green	brown								
Tracer Colour	black	black	black	black								

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
Tube No.	13	14	15	16								
Tube Colour	blue	orange	green	brown								
Tracer Colour	black	black	black	black								

Fillers are Black.

Sheath Marking:

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

<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 ± 5%.