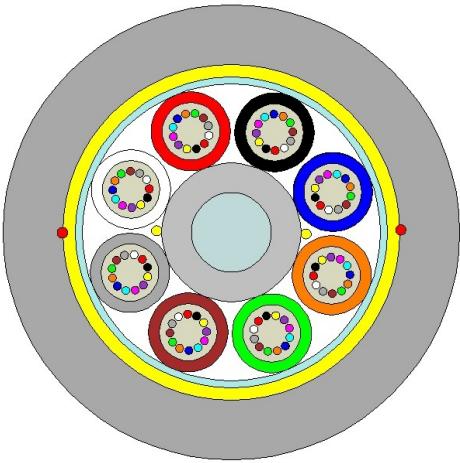


## 12-144F Single Jacket ADSS CABLE Span 80m

## Cable Design

IEC/EN 60794-3-20



- **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.

- not to scale -

## 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
Cable normal Diameter	mm	9.8	9.8	10.2	11.5	13.4
Cable Weight	kg / km	74	74	77	98	128
Maximum span	m	80	80	80	80	80
Minimum sag	%	1.0	1.0	1.0	1.0	1.0
Maximum wind speed	Km/h	96	96	96	96	96
Maximum installation tension	KN	0.8	0.8	0.8	1.0	1.3
Max. Operating tension	KN	1.5	1.5	1.6	2.0	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 &amp; 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, $\Delta\alpha$ reversible
Max. Operating tension	IEC 60794-1-21-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 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  $\pm 5\%$ .

## Loose Tube

ADSS Cable