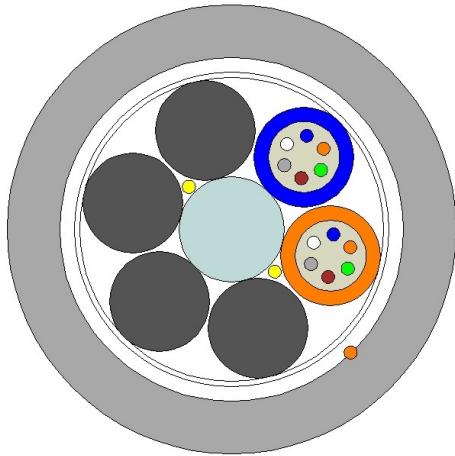


## 12-144F Single Jacket ALL Dielectric DUCT Cable

## Cable Design

IEC/EN 60794-3-10



- **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 (dry core).
- **Peripheral reinforcement:** glass yarns.
- **Outer Sheath:** LSZH. 1 ripcord beneath

- not to scale -

## Technical data

No. of Fibres	12, 24	16, 32	48	96	128	144
Design(element × fibre per tube)	6x6	6x8	6x12	8x12	8x16	12x12
Outer sheath nominal thickness	mm	1.8	1.8	1.8	1.8	1.8
Cable nominal Diameter	mm	10.5	10.7	11.0	12.2	14.3
Cable Weight	kg / km	122	125	130	153	196
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 -30 -> +70

Please refer to our General Installation, Safety &amp; Handling recommendations before handling.

## Main characteristics

Test	Standard	Value	Sanction*
Max. installation tension	IEC 60794-1-2-E1	2700 N	fibre strain $\leq 0.6\%$ , $\Delta\alpha$ reversible
Crush(short term)	IEC 60794-1-2-E3	2000 N / 100mm	$\Delta\alpha \leq 0.1$ dB
Temperature range	IEC 60794-1-2-F1	-30 -> +70°C	$\Delta\alpha \leq 0.1$ dB /km
Water Penetration	IEC 60794-1-2-F5B	sample=3m, water=1m	No water leakage after 24 hour

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

## Optical Characteristics

See the attached cabled optical fibre data sheet.

## Identification

## Loose Tube

Single Jacket Un-Armored Cable

**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 Colour:**

The inner and outer sheath colour are black.

**Sheath Marking:**

The outer sheath is marked in 1 meter intervals in Black:

<fiber type & Number> DUCT CABLE <Year of manufacture> XXXXM

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**Logistic****Packing:**

Wooden drums with protection.

**Delivery Lengths:**

Standard delivery length is 4km with a tolerance of  $\pm 5\%$ .

**Loose Tube**

Single Jacket Un-Armored Cable