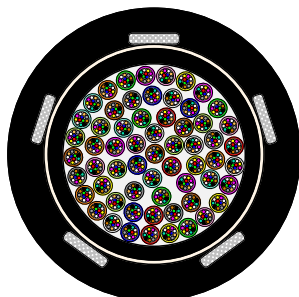


## High Fibre Count Duct dielectric optical standard Flextube® cable

### Cable Design

IEC/EN 60794



- not to scale -

**Micro-module:** Thin wall tubing (FlexTube®), filled with a suitable compound, housing the single-mode optical fibres.

**Longitudinal Water Tightness:** water swellable elements (dry core).

**Inner Sheath.** 1 ripcord underneath the sheath.

**Dielectric reinforcement (FRP):** glass fibre reinforced rigid elements, helically stranded.

**Outer Sheath:** HDPE. Ripcord(s) underneath the sheath.

This High Fibre Count Flextube dielectric optical cable is designed for outdoor installation in duct by pulling, jetting or floating technics.

The Flextube® design provides easier storage & faster installation.

Finger access to the fibres : no specific tools to open the Flextube.

### Technical data

# Fibres (grouped by 12) *	≤	432	576	720	864
Module - Ø	mm	1.3			
Cable Diameter	mm	18.2	19.7	21	22.2
Cable Weight	kg / km	270	310	345	380
Max installation tension	daN	405	465	515	570
Min. bending radius	mm	Without Tension 15 x Cable-Ø		Under Maximum Tension 20 x Cable-Ø	
Temperature range	°C	Installation -5 -> +40;	Transport. & Storage -40 -> +70 ;	Operation -30 -> +60	

\* other configuration upon specific request

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

### Main characteristics

Test	Standard	Valeur	Sanction*
Maximum Tension at installation (short term)	IEC 60794-1-2-E1	see table above	Δα reversible
Crush	IEC 60794-1-2-E3	250 daN / 100mm	Δα reversible
Impact	IEC 60794-1-2-E4	10 Nm, 3 impacts, r=300mm	Δα reversible
Torsion	IEC 60794-1-2-E7	1m, +- 180°	Δα reversible
Cable bend	IEC 60794-1-2-E11	R = 15 x cable Ø	Δα reversible
Temperature range	IEC 60794-1-2-F1	-30 -> +60°C	Δα ≤ 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

### Fibre Colours

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

### Flextube Colours

No.	1	2	3	4	4	5	7	8	9	10	11	12
Colour	red	blue	green	yellow	violet	white	orange	grey	brown	Light green	aqua	pink
No.	12	14	15	16	17	18	19	20	21	22	23	24
Colour	red	blue	green	yellow	violet	white	orange	grey	brown	Light green	aqua	pink
No.	25	26	27	28	29	30	31	32	33	34	35	36
Colour	red	blue	green	yellow	violet	white	orange	grey	brown	Light green	aqua	pink
No.	37	38	39	40	41	42	43	44	45	46	47	48
Colour	red	blue	green	yellow	violet	white	orange	grey	brown	Light green	aqua	pink
No.	49	50	51	52	53	54	55	56	57	58	59	60
Colour	red	blue	green	yellow	violet	white	orange	grey	brown	Light green	aqua	pink
No.	61	62	63	64	65	66	67	68	69	70	71	72
Colour	red	blue	green	yellow	violet	white	orange	grey	brown	Light green	aqua	pink

### Sheath Colour:

The outer sheath colour is black.

### Sheath Marking:

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

**<Manufacturer> <year of manufacture> OPTICAL CABLE <optional: product type> <nb and type of fibre> <length marking in meter>**

## Logistic

### Packing:

Wooden drums with protection.

### Delivery Lengths:

Standard delivery length is 2 km with a tolerance of - 1% / + 3%

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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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