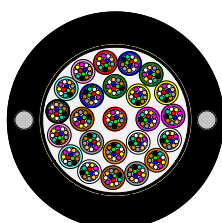


Duct & μ Duct dielectric optical micro Flextube® cable, fibre BendBright®^{XS} 200 μ m

Cable Design

IEC/EN 60794



- not to scale -

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

Water tightness: dry core with swellable elements.

Strength members: aramid yarns if needed; glass fibre reinforced plastic material embedded in the outer sheath.

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

This thin skin micro Flextube dielectric optical cable is designed for outdoor installation in μ duct by jetting or floating technics. Mainly used in μ duct for FTTx and access network. This cable, equipped with the PrysmianGroup BendBright-XS 200 μ m fibre, provides the lowest attenuation at 1625nm after installation and splicing with miniaturized equipments. The Flextube® design provides easier storage & faster installation. Finger access to the fibres: no specific tools to open the Flextube. One cable only will be installed in the same duct and the cable must be protected inside the manhole.

Technical data

# Fibres (grouped by 12)*	≤	12	24	36	48	72	96	144	288
Module - Ø	mm	1.2							
Cable Diameter	mm	4,2	6,2	6,2	6,2	7.2	7,5	8.4	10.8
Cable Weight	kg / km	12	21	23	24	32	36	46	75
Max installation tension	daN	20	50	60	60	70	90	100	150
Suggested duct inner dia.**	mm	8	8	8	8	10	10	12	14
Min. bending radius	mm	Without Tension 10 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. ** suggested optimized inner diameter for better air blowing performance
Please refer to our General Installation, Safety & Handling recommendations before handling.

Main characteristics

Test	Standard	Value	Acceptance criteria*
Maximum Tension at installation (short term)	IEC 60794-1-2-E1	see table above	$\Delta\alpha$ reversible
Crush	IEC 60794-1-2-E3	150 daN / 100mm	$\Delta\alpha$ reversible
Cable bend	IEC 60794-1-2-E11	R = 10 x cable Ø	$\Delta\alpha$ reversible
Temperature range	IEC 60794-1-2-F1	-30 -> +60°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, BendBright-XS 200 μ m C35 here attached.

Identification *(order of assignment in case of intermediate capacity: from left to right)*

Fibre Colours

fibres 1 -> 12											
red	blue	green	yellow	violet	white	orange	grey	brown	black	aqua	pink

Flextube Colours (cables up to 12 modules)

tubes 1 -> 12											
red	blue	green	yellow	violet	white	orange	grey	brown	black	aqua	pink

Flextube Colours (cables above 12 modules)

tubes 1 -> 12											
red	blue	green	yellow	violet	white	orange	grey	brown	light green	aqua	pink
tubes 13 -> 24											
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 <nb and type of fibre>
<length marking in meter>**

Logistic

Packing:

Wooden drums with protection.

Delivery Lengths:

Standard delivery length is 4 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 Prysmian Group: any modification or alteration afterwards of product may give different result.

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