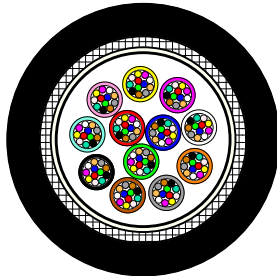


FTTH Indoor/outdoor distribution BendBright^{XS} Cable

Cable Design



- not to scale -

- **Micro-module:** Thin wall tubing (FlexTube®), filled with a suitable compound, housing BendBright^{XS} optical fibres.
- **Stranding of micro-modules**
- **Water tightness:** dry core with swellable elements.
- **Reinforcement and dielectric armour:** glass yarns.
- **Outer Sheath :** black LSZH FR material.

Outdoor installation ducts. In buildings on cable trays, in the façade of buildings, in corridors or shafts. Easy access to the modules and fibres.

Technical data

No. of Fibres		16	24	32	48	64	128	256
Design		4 x 4	6 x 4	8 x 4	6 x 8	8 x 8	16 x 8	16x 16
Cable Diameter	mm	9.8	9.8	10.0	10.9	10.9	13.3	14.7
Cable Weight	kg / km	80	80	85	90	95	125	150
Minimum Bending Radius	mm	Without Tension 10 x Cable-Ø			without tension 20 x Ø cable			
Temperature Range	°C	Installation 5 a +40		Transport & Storage -40 a +70		Operation -25 a +70		

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

Main characteristics

Test	Test Standard	Specified Value	Acceptance Criteria
Max. Installation Tension	EN 60794-1-2-E1	2700 N	$\Delta\alpha$ reversible
Crush	EN 60794-1-2-E3	150 daN / 100 mm	$\Delta\alpha \leq 0,05$ dB/fibra in test, no damage
Impact	EN 60794-1-2-E4	5 Nm, r=300mm, 3 impacts	$\Delta\alpha \leq 0,1$ dB
Repeated Bending	EN 187000 -507	$\geq 10 \cdot \varnothing_{\text{cable}}$ (mm), 100 cycles	$\Delta\alpha \leq 0,1$ dB, no damage
Cable Bend	EN 187000 -513	$\geq 10 \cdot \varnothing_{\text{cable}}$ (mm)	$\Delta\alpha \leq 0,1$ dB
Torsion	IEC 60794-1-2-E6	1m, $\pm 180^\circ$	$\Delta\alpha \leq 0,1$ dB
Temperature Cycling	IEC 60794-1-2-F1	-25°C to +70°C	$\Delta\alpha \leq 0,1$ dB/km
Water Penetration	IEC 60794-1-2-F5B	sample=3m, water=1m	No water leakage in 168 h

All optical measurements at 1550 nm.

Optical Characteristics

See the attached cabled optical fibre data sheet.

Fire Performance

Test	Test Standard	Specified Value	Acceptance Criteria
Single Cable Test	IEC 60332-1	unburnt cable length	> 50 mm
Smoke Density	IEC 61034	transmission of light	> 60 %
Corrosivity of Smoke Gases	IEC 60754-2	pH-value	≥ 4.3
Euroclass	EN 50575		Dca-s1,d2,a1

Identification

Fibre Colours

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	green	red	blue	yellow	grey	violet	brown	orange	white	black	pink	turquoise
No.	13	14	15	16								
Color	white ¹	yellow ¹	orange ¹	pink ¹								

<color>¹ with evenly spaced black ring marks

Flextube Colours

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	green	red	blue	yellow	grey	violet	brown	orange	white	black	pink	turquoise
No.	13	14	15	16								
Color	green ¹	red ¹	blue ¹	yellow ¹								

<color>¹ with evenly spaced black ring marks

Sheath Marking :

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

<Manufacturer> <week and year of manufacture> <no. and and type of fibre> <customer name >
<trazability number> <length marking in meter>

Logistic

Packing:

Wooden drums with protection.

Delivery Lengths:

Standard delivery lengths are 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 PrysmianGroup: any modification or alteration afterwards of product may give different result.

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