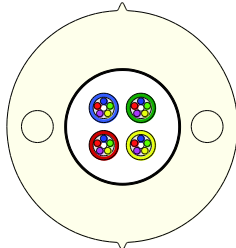


# FTTH Indoor Riser Cable

## Cable Design

IEC/EN 60794



- not to scale -

**Micro-module:** Thin wall tubing, housing the BendBright<sup>®XS</sup> optical fibres. Without any gel.

**Strength members:** glass fibre reinforced plastic material.

**Outer Sheath:** LSZH-FR material.

Two lines in positive relief located at 90° from the RSM, to position the cable opening window.

Indoor installation on cable tray, in corridors or shafts. Easy selection and removal of a tube for tapping and connection at the floor. The fully dry flexible micro-modules provide easier storage & faster installation and access to the fibres without specific tools and without further cleaning.

### Technical data

# Fibres		4	8	12	16	6	12	18	24	8	16	24	32	12	24	36	48
Design		1x4	2x4	3x4	4x4	1x6	2x6	3x6	4x6	1x8	2x8	3x8	4x8	1x12	2x12	3x12	4x12
module - Ø	mm	0.9				1.1				1.2				1.3			
Cable Diameter	mm	6.8															
Cable Weight (approx.)	kg / km	45															

### Technical data

# Fibres		24	36	48	72	32	36	40	48	48	60	72	64	80	96	96	120	144			
Design		6x4	6x6	6x8	6x12	8x4	9x4	10x4	12x4	8x6	10x6	12x6	8x8	10x8	12x8	8x12	10x12	12x12			
module - Ø	mm	0.9	1.1	1.2	1.3	0.9				1.1				1.2				1.3			
Cable Diameter	mm	8.5								10.5											
Cable Weight (approx.)	kg / km	60								83											

Min. bending radius	mm	Under Tension: 20 x Cable-Ø								Without Tension: 10 x Cable-Ø							
Temperature range	°C	Installation 0 -> +55				Transport. & Storage -40 -> +70				Operation -5 -> +60							

### Main characteristics

Test	Standard	Value	Sanction*
Max Installation Tension	IEC 60794-1-2-E1	Up to 48 = 450N, Up to 72 = 700N, Up to 144 = 950N	$\Delta l/l \leq 0.6\%$ , $\Delta\alpha \leq 0.1\text{dB}^{**}$ , reversible
Crush	IEC 60794-1-2-E3	1000 N ; t =5 min	$\Delta\alpha \leq 0.05$ dB, no damage
Impact	IEC 60794-1-2-E4	1.0 Nm , 3 impacts	$\Delta\alpha \leq 0.05$ dB, after the test
Torsion	IEC 60794-1-2-E7	200N, $\pm 360^\circ$ , 5 cycles	$\Delta\alpha \leq 0.05$ dB, no damage
Cable Kink	IEC 60794-1-2-E10	D=20 x OD	No kink
Cable Bend	IEC 60794-1-2-E11A	R=20 x OD, 6 turns, 10 cycles	No fibre break
Bend at Low Temperature	IEC 60794-1-2-E11A	0°C, R=10xOD, 2 cycles, 5 turn	No damage of cable elements
Bending Under Tension	IEC 60794-1-2-E18	400N	$\Delta\alpha \leq 0.1$ dB **, no damage
Repeat Bending	IEC 60794-1-2-E6	R=20xOD, 40N, 25 cycles	No fibre break
Flexing	IEC 60794-1-2-E8	R=20xOD, 20N, 100 cycles	No damage of cable elements
Temperature Cycling	IEC 60794-1-2-F1	-5 -> +60 °C, 2 cycles, t1=12 h	$\Delta\alpha \leq 0.05$ dB/km** at -5°C $\Delta\alpha \leq 0.1$ dB/km** at +60°C

Cable Sheath Abrasion	IEC 60794-1-2-E2A	500 cycles, load = 4 N, 1m	Sheath integrity
Cable Marking Abrasion	IEC 60794-1-2-E2B-2	100 cycles, load = 4 N, 1m	Legible marking after the test
Cable Access	-	-	5 m retractability, < 1 min
Buffer Stripability	-	No tools, 1m	Time to remove < 1 min.

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

## Fire Performances

Test	Standard	Value	Sanction
Fire Performance	EN 60332-3	3.5m, 1,5l/min, 20 min.	Carbonized length < 2.5 m
Corrosive Gases Emission	EN 50267-2-2	test length=3.5m, pH-value conductivity	≥ 4.3 ≤ 10 µS
Smoke Density	EN 61034-2	-	light transmittance > 60%

## Optical Characteristics

See the attached cabled optical fiber BendBright<sup>®XS</sup> (G.657A2) data sheet.



## Identification

### Fibre Colours \*\*

Fibre #	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Red	Blue	White	Green	Violet	Orange	Grey	Yellow	Brown	Pink	Black	Aqua

### Buffer Tube Colours \*\*

Tube #	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Red	Blue	White	Green	Violet	Orange	Grey	Yellow	Brown	Pink	L.Green	Aqua

\*\* order of assignment in case of intermediate capacity: from left to right

### Sheath Colour:

The outer sheath colour is ivory.

### Sheath Marking:

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

**OPTICAL CABLE PRYSMIAN KLD-XnOTKmm d nnJ7<fiber type> (mxn)PG nnnnnnll mmmm M**

where: nn= fiber count, m= number of tubes, p = number of fibers per tube, nnnnnn = last six digits from production order, ll = length number from production order, mmmm = sequential length mark.  
<fiber type> = A2

## Logistic

### Packing:

Wooden drums with protection.

### Delivery Lengths: 2100 ± 100 m.

Other lengths available upon agreement, up to a maximum of 10% of the total number of cable lengths could be shorter than nominal values

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