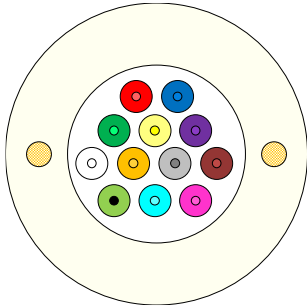


Indoor riser optical fibre cable

TV05513



-not to scale-

Cable Design

According to IEC/EN 60794

- **Fibres:** G.657.A1 BendBright™ A1 or G.657.A2 BendBright™ XS bend insensitive single mode optical fibres.
- **Buffers:** 0.9 mm easy stripping fibre units (ESFU).
- **Outer Sheath:** flame retardant LSZH.
- **Strength Members:** two glass fibres reinforced plastic material (GRP) embedded in the outer sheath, disposed at 180°.

Cable Application

These optical fibre cables are used for fibre distribution in indoor application. Please contact your sales representative for ordering guides or installation information.

Technical Data

No. of Fibres (grouped by 1)	≤	12	24	36	48
Buffer Diameter, Ø	mm	0.9			
Sheath Thickness	mm	1.75	1.8	1.8	
Cable Diameter, Ø	mm	8.5	10	13	
Cable Weight	kg/km	68	95	135	
Minimum Bending Radius	mm	Under Maximum Tension: 20 x Cable Ø		Without Tension: 10 x Cable Ø	
Temperature Range	°C	Transport & Storage: -10 → +70		Installation: -10 → +40	Operation: -10 → +60

Main Characteristics

Test	Standard	Specified Value	Acceptance Criteria ⁽¹⁾
Tensile Performance	IEC 60794-1-21-E1	≤ 12 fibre → 150N, 5 min. > 12 fibre → 500N, 5 min	ΔI/I fibre ≤ 0.60%, Δα ≤ 0.10 dB under test, reversible
Crush	IEC 60794-1-21-E3	500 N / 100 mm, 15 min	Δα ≤ 0.10 dB under test, reversible, no damage
Repeated Bending	IEC 60794-1-21-E6	R = 20 x OD, 100 cycles, 100 N	no break of fibres or tensile performance elements
Bend	IEC 60794-1-21-E11A	R = 10 x OD, 5 cycles	Δα ≤ 0.05 dB under test, reversible, no damage
Temperature Cycling	IEC 60794-1-22-F1	-10 °C to +60 °C, 2 cycles	Δα ≤ 0.05 dB/km, reversible
Temperature Cycling	IEC 60794-1-22-F1	-40 °C to +70 °C	Δα ≤ dB
Water Penetration	IEC 60794-1-22-F5B	x m sample, 1 m water, 24 h	no water penetration

(1) values for single-mode fibres, all optical measurements performed at @1550nm and 1625nm.

Flame Resistance

EN 50399: Class E_{ca}

LSHF (FRNC): IEC 60332-1-2, NFC 32070-C2



Optical Characteristics

















































See the attached BendBright™ cabled optical fibre data sheet.

Identification

Fibre Colours ⁽²⁾:

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

Tube Colours ⁽²⁾:

No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	red	blue	green	yellow	violet	white	orange	grey	brown	light green	turquoise	pink
												
No.	13	14	15	16	17	18	19	20	21	22	23	24
Colour	red	blue	green	yellow	violet	white	orange	grey	brown	light green	turquoise	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	turquoise	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	turquoise	pink
												

(2) Other colour set available upon agreement.

Sheath Colour ⁽³⁾:

The outer sheath colour is ivory.

(3) Customized outer sheath colour available upon agreement.

Sheath Marking ⁽⁴⁾:

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

**<week><year> <Manufacturer> VERTICASA INDOOR CABLE <no. of fibres> FO D1M LS0H
CPR Eca <length marking> M**

(4) Customized marking available upon agreement.

Logistic

Packing: Wooden drums with protection.

Standard Delivery Length ⁽⁵⁾: 1000 m ± 100 m and 2000 m ± 100 m.

(5) Other delivery lengths available upon agreement.

All optical measurements in accordance with ITU-T G650 recommendations

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