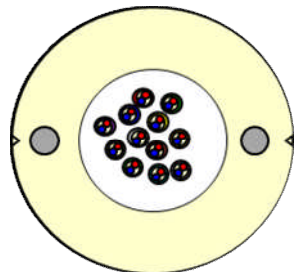


INDOOR RISER OPTICAL CABLE

Cable Design

IEC/EN 60794-2-20



-24F version illustrated not to scale -

- **Fibers:** G.657.A1
- **Buffers:** 0.9 mm easy stripping buffers with 2 fibers (2f ESFU).
- **Outer Sheath:** Flame retardant LSOH, 2 glass fibers reinforced plastic material (GRP) embedded, disposed at 180°.

This dielectric optical cable is designed for indoor installation technique.

Technical data

No. of Fibres		12(6x2f)	16(8x2f)	24(12x2f)	36(18x2f)	48(24x2f)	72(36x2f)	96(48x2f)
Part number				60003301	60004575	60003302		60003836
Buffer diameter - ϕ	mm	0.900						
GRP - ϕ	mm	1.0			1.0			
Sheath thickness	mm	1.8			2.5			
Cable diameter - ϕ	mm	10			12.0		14.5	
Cable weight	Kg/Km	74	75	80	125	130	165	175
Min. bending radius	mm	Under Tension: 20xCable- ϕ				Without Tension: 10xCable- ϕ		
Temperature range	°C	Transport : -10 -> +60			Installation: -10 -> +40		Operation: -10 -> +60	

Main characteristics

Test	Standard	Value	Requirement*
Tensile Strength (dynamic)	IEC 60794-1-2-E1	300N, 5 min.	$\Delta I/I$ fibre \leq 0.60%, $\Delta\alpha \leq$ 0.10 dB under test, reversible
Crush	IEC 60794-1-2-E3	500 N/100mm, max. 15 min	$\Delta\alpha \leq$ 0.10 dB under test, reversible, no damage
Impact	IEC 60794-1-2-E4	5 J, 3 impacts, R=300 mm	$\Delta\alpha \leq$ 0.10 dB after test, no damage
Repeated Bending	IEC 60794-1-2-E6	R=20xOD, 100N, 100 cycles	No break of fibres or tensile performance elements
Bend	IEC 60794-1-2-E11A	R=10xOD, 5 cycles	$\Delta\alpha \leq$ 0.05 dB under test, reversible, no damage
Temperature Cycling	IEC 60794-1-2-F1	-10 -> +60 °C, 2 cycles	$\Delta\alpha \leq$ 0.05 dB/Km, reversible

* values for single-mode fibres, all optical measurements performed at @1550&1625 nm

Optical Characteristics

See the attached cabled optical fiber G.657.A1 data sheet.

Identification

Color Coding

Element No.	1	2	3	4	5	6	7	8	9	10	11	12
Fibres	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue
Protection	Red I	Blue I	Green Dark I	Yellow I	Violet I	White I	Orange I	Grey I	Brown I	Green Light I	Turquoise I	Pink I

Element No.	13	14	15	16	17	18	19	20	21	22	23	24
Fibres	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue
Protection	Red II	Blue II	Green Dark II	Yellow II	Violet II	White II	Orange II	Grey II	Brown II	Green Light II	Turquoise II	Pink II

Element No.	25	26	27	28	29	30	31	32	33	34	35	36
Fibres	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue
Protection	Red III	Blue III	Green Dark III	Yellow III	Violet III	White III	Orange III	Grey III	Brown III	Green Light III	Turquoise III	Pink III

Element No.	37	38	39	40	41	42	43	44	45	46	47	48
Fibres	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue	Red & Blue
Protection	Red IIII	Blue IIII	Green Dark IIII	Yellow IIII	Violet IIII	White IIII	Orange IIII	Grey IIII	Brown IIII	Green Light IIII	Turquoise IIII	Pink IIII

I – one black mark; **II** – two black marks; **III** – three black marks, **IIII** – four black marks

Sheath Color:

The outer sheath color is ivory.

Sheath Marking:

The outer sheath is marked in 1 meter intervals by ink jet method as follows:

wwyyyy PRYSMIAN(S) VERTICASA INDOOR CABLE (n x 2) FO D1M LS0H zzzz M

where: wwyyyy= week and year of manufacture, n=number of bundle, zzzzM = Sequential Length Mark

Logistic

Packing:

Wooden drums with protection.

Delivery Lengths: 1000 ±100 m or 2000 ± 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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