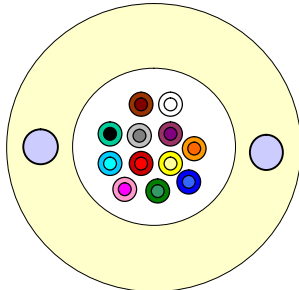


INDOOR RISER OPTICAL CABLE

Cable Design

IEC/EN 60794-2-20



-12F version illustrated not to scale -

- **Fibers:** G.657.A2
- **Buffers:** 0.9 mm easy stripping buffers (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 Fibers		8	12	16	24	36	48
Part number				60010466	60010467		
Buffer diameter - Ø	mm	0.900					
GRP - Ø	mm	0.7		1			
Sheath thickness	mm	1.75		2.5			
Cable diameter - Ø	mm	8.5		12.0		14.5	
Cable weight	Kg/Km	65	68	127	135	173	185
Min. bending radius	mm	Under Tension: 20xCable-Ø			Without Tension: 10xCable-Ø		
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	12 fo 150N, 5 min. 24÷48fo 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
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	Green	Yellow	Violet	White	Orange	Grey	Brown	Black	Turquoise	Pink
Protection	Red	Blue	Green Dark	Yellow	Violet	White	Orange	Grey	Brown	Green Light	Turquoise	Pink

Element No.	13	14	15	16	17	18	19	20	21	22	23	24
Fibres	Red	Blue	Green	Yellow	Violet	White	Orange	Grey	Brown	Black	Turquoise	Pink
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.	25	26	27	28	29	30	31	32	33	34	35	36
Fibres	Red	Blue	Green	Yellow	Violet	White	Orange	Grey	Brown	Black	Turquoise	Pink
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.	37	38	39	40	41	42	43	44	45	46	47	48
Fibres	Red	Blue	Green	Yellow	Violet	White	Orange	Grey	Brown	Black	Turquoise	Pink
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

I – one black mark; **II** – two black marks; **III** – three 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 FO D1M LS0H zzzz M**

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

Logistic

Packing:

Wooden drums with protection.

Delivery Lengths: 1000 ±100m, 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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