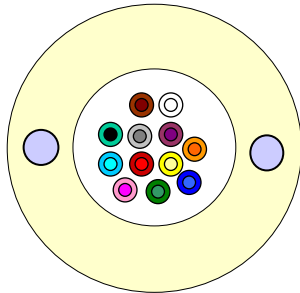


INDOOR RISER OPTICAL CABLE

Cable Design

IEC/EN 60794-2-20



-12F version illustrated not to scale -

- **Fibers:** CasaLight™ (G.657A1)
- **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 Fibres		8	12	16	24	36	48	
Part number		60005849	60004967	60005850	60004966	60003834	60003835	
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
Fire performance	IEC 60332-1-2 NFC 32070-C2	-	IEC 60332-1-2 NFC 32070-C2
Euroclass	EN 50575	-	Eca

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

Optical Characteristics

See the attached cabled optical fiber CasaLight™ (G.657A1) 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 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	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.	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 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	Green	Yellow	Violet	White	Orange	Grey	Brown	Black	Turquoise	Pink
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 FO D1M LS0H CPR Eca 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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