

INDOOR - LSZH Sheath

MICROMODULE STRUCTURE FIBRE-OPTIC CABLES

DESCRIPTION AND APPLICATION

Indoor ultra-compact optical fibre cables with LSZH sheath and fibreglass reinforcements. Designed for indoor use and for all types of communication networks.

Class **Dca s2 d2 a1** according to CPR

CONSTRUCTION

1. Micromodules: Easy strippable tube with 6 or 12 fibres.
2. Water-blocking yarns and/or tapes.
3. Fibreglass reinforcement elements embedded in the outer sheath.
4. Outer thermoplastic LSZH material sheath (Ivory or Black).

Markings:

CABLESCOM / year / FO Number / Type of fibre / Type of sheath / Length markings

Colour code scheme: See Annexes – Colour code Table.

Optical fibre characteristics: See Annexes – Optical fibre characteristics.



MICROMODULE COLOUR CODE

Cable Mod6	Cable Mod12	Tube											
		1	2	3	4	5	6	7	8	9	10	11	12
6	12	Red											
12	24	Red	Blue										
18	36	Red	Blue	Green									
24	48	Red	Blue	Green	Yellow								
36	72	Red	Blue	Green	Yellow	Violet	White						
48	96	Red	Blue	Green	Yellow	Violet	White	Orange	Grey				
60	120	Red	Blue	Green	Yellow	Violet	White	Orange	Grey	Brown	Black		
72	144	Red	Blue	Green	Yellow	Violet	White	Orange	Grey	Brown	Black	Turquoise	Pink
144	288	Red *	Blue *	Green *	Yellow *	Violet*	White *	Orange *	Grey *	Brown *	Green Light *	Turquoise *	Pink*
		Red **	Blue **	Green **	Yellow **	Violet**	White **	Orange **	Grey **	Brown **	Green Light **	Turquoise**	Pink**

Note: In 288 fibre cables the micromodules from 1 to 12 will be marked with a ring and the micromodules from 13 to 24 will be marked with 2 rings.

TABLE 2: FIBRE COLOURS

Fibre	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

CPR

This cable family has been certified according to CPR as **Dca s2 d2 a1**

All drawings, weights and dimensions details, as well as tube and fibre colours in this document are only indicative and must not be considered contractual.

Cables de Comunicaciones Zaragoza, SL.

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Certified Company ISO 9001 – ISO 14001

TITLE
HP_EE8WCW2_MS_INDOOR

EDITION
4

APPROVED BY
RG

DATE
2019-10-25

PRODUCT INFORMATION

MODULARITÉ 6 FO / TUBE									
FIBRE Num.	6	12	18	24	36	48	72	96	144
MODULE Num.	1	2	3	4	6	8	12	16	24
NOMINAL WEIGHT (kg/km)	43	54	62	71	77	85	109	128	156
NOMINAL OD (mm)	6.1	6.8	7.5	8.1	8.5	9.0	10.5	11.8	13.0
Installation Tensile Strength - ITS (N) UNE-EN 60794-1-2, Met. E1	580	650	700	1300	1300	1350	1630	1660	2100
Maximum Operation Tension - (N) UNE-EN 60794-1-2, Met. E1	$\Delta\epsilon f < 0.5\%$, $\Delta\alpha$ reversible, up to 1 x cable weight								
IMPACT RESISTANCE UNE-EN 60794-1-2, Met. E4	230	240	250	460	460	460	650	660	950
CURVATURE UNE-EN 60794-1-2, Met. 11	$\Delta\epsilon f < 0.2\%$, $\Delta\alpha < 0.05$ dB								
CRUSH RESISTANCE UNE-EN 60794-1-2, Met. E3	5 J, 300 mm, T ^a -20 °C, $\Delta\alpha$ reversible								
OPERATING TEMPERATURE UNE-EN 60794-1-2, Met. F1	D=20 x Cable OD, 10 cycles, $\Delta\alpha < 0.1$ dB								
WATER PENETRATION UNE-EN 60794-1-2, Met. F5C	1000 N, 1 min, $\Delta\alpha$ reversible								
PRODUCT CODE G.652D	-5°C / 60°C								
PRODUCT CODE G.657A2	LP _{water} ≤ 3 m (24 hours) (Cable core)								
	EE82CJ2 00000600N	EE82CJ2 00001200N	EE82CJ2 00001800N	EE82CK2 00002400N	EE82CK2 00003600N	EE82CK2 00004800N	EE82CK2 00007200N	EE82CK2 00009600N	EE82CK2 00014400N
	EE85CJ2 00000600N	EE85CJ2 00001200N	EE85CJ2 00001800N	EE85CK2 00002400N	EE85CK2 00003600N	EE85CK2 00004800N	EE85CK2 00007200N	EE85CK2 00009600N	EE85CK2 00014400N

MODULARITY 12 FO / TUBE											
FIBRE Num.	12	24	36	48	72	96	120	144	192	216	288
MODULE Num.	1	2	3	4	6	8	10	12	16	16	18
NOMINAL WEIGHT (kg/km)	44	62	71	77	85	98	112	129	158	162	179
NOMINAL OD (mm)	6.1	7.5	8.1	8.5	9.0	9.8	10.5	11.8	13.0	13.0	14.0
Installation Tensile Strength - ITS (N) UNE-EN 60794-1-2, Met. E1	580	610	1150	1180	1190	1200	1630	1635	2680	2700	2750
Maximum Operation Tension - (N) UNE-EN 60794-1-2, Met. E1	$\Delta\epsilon f < 0.5\%$, $\Delta\alpha$ reversible, up to 1 x cable weight										
IMPACT RESISTANCE UNE-EN 60794-1-2, Met. E4	230	250	450	470	470	480	650	660	1050	1070	1100
CURVATURE UNE-EN 60794-1-2, Met. 11	$\Delta\epsilon f < 0.2\%$, $\Delta\alpha < 0.05$ dB										
CRUSH RESISTANCE UNE-EN 60794-1-2, Met. E3	5 J, 300 mm, T ^a 20 °C, $\Delta\alpha$ reversible										
OPERATING TEMPERATURE UNE-EN 60794-1-2, Met. F1	D=20 x Cable OD, 10 cycles, $\Delta\alpha < 0.1$ dB										
WATER PENETRATION UNE-EN 60794-1-2, Met. F5C	1000 N, 1 min, $\Delta\alpha$ reversible										
PRODUCT CODE G.652D	-5°C / 60°C										
PRODUCT CODE G.657A2	LP _{water} ≤ 3 m (24 hours) (Cable core)										
	EE83CJ2 00001200N	EE83CJ2 00002400N	EE83CK2 00003600N	EE83CK2 00004800N	EE83CK2 00007200N	EE83CK2 00009600N	EE83CK2 00012000N	EE83CK2 00014400N	EE83CK2 00019200N	EE83CK2 00021600N	EE83CK2 00028800N
	EE86CJ2 00001200N	EE86CJ2 00002400N	EE86CK2 00003600N	EE86CK2 00004800N	EE86CK2 00007200N	EE86CK2 00009600N	EE86CK2 00012000N	EE86CK2 00014400N	EE86CK2 00019200N	EE86CK2 00021600N	EE86CK2 00028800N

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