

OUTDOOR – P Sheath

STANDARD DUCT MICROMODULE FIBRE-OPTIC CABLES

DESCRIPTION AND APPLICATION

Outdoor ultra-compact fibre optic cables with polyethylene sheath and fibre glass reinforcements. Designed to be installed in duct by blowing or pulling up to 1,8 x Weight. These cables are designed for all types of communications networks.

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. High density polyethylene outer sheath.

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.



TABLE 1: 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 *	Ligh Green*	Turquoise *	Pink*
		Red **	Blue **	Green **	Yellow **	Violet**	White **	Orange **	Grey **	Brown **	Ligh Green**	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 COLOUR CODE

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

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.

INFORMACIÓN DEL PRODUCTO

MODULARITY 12 FO / TUBE											
FIBRES Num.	12	24	36	48	72	96	120	144	192	216	288
MODULE Num.	1	2	3	4	6	8	10	12	16	18	24
NOMINAL WEIGHT (kg/km)	32	40	45	57	60	73	85	95	135	138	158
NOMINAL OD (mm)	6.0	7.5	7.5	9.0	9.0	10.5	10.5	11.8	14.0	14.0	15.6
PRODUCT CODE G.652D	EE830F1 00001200N	EE830F1 00002400N	EE830G1 00003600N	EE830G1 00004800N	EE830G1 00007200N	EE830G1 00009600N	EE830G1 00012000N	EE830G1 00014400N	EE830G1 00019200N	EE830G1 00014400N	EE830G1 00028800N
PRODUCT CODE G.657.A2	EE860F1 00001200N	EE860F1 00002400N	EE860G1 00003600N	EE860G1 00004800N	EE860G1 00007200N	EE860G1 00009600N	EE860G1 00012000N	EE860G1 00014400N	EE860G1 00019200N	EE860G1 00014400N	EE860G1 00028800N
MAX. INST. TENSILE STRENGTH (N) EN 60794-1-2, Met. E1	630	630	1200	1200	1270	1270	1750	1750	2800	2800	2940
	$\Delta\epsilon_f < 0.5\%$, $\Delta\alpha$ reversible, up to 1.8 x cable weight										
MAX. OP. TENSILE STRENGTH (N) EN 60794-1-2, Met. E1	250	250	450	450	500	500	700	700	1100	1100	1100
	$\Delta\epsilon_f < 0.2\%$, $\Delta\alpha < 0.05$ dB										
IMPACT RESISTANCE EN 60794-1-2, Met. E4	10 J, 300 mm, T ^a -15 y 20 °C, $\Delta\alpha$ reversible										
CURVATURE EN 60794-1-2, Met. 11	D=20 x $\varnothing$ cable, 10 cycles, $\Delta\alpha < 0.1$ dB										
CRUSH RESISTANCE EN 60794-1-2, Met. E3	1500 N, 1 min, $\Delta\alpha$ reversible										
OPERATING TEMPERATURE EN 60794-1-2, Met. F1	-20°C / 60°C										
WATER PENETRATION EN 60794-1-2, Met. F5C	LP water $\leq$ 3 m (24 hours)										

MODULARITY 6 FO / TUBE										
FIBRES Num.	6	12	18	24	36	48	72	96	108	144
MODULE Num.	1	2	3	4	6	8	12	16	18	24
NOMINAL WEIGHT (kg/km)	28	40	42	46	58	60	83	98	116	124
NOMINAL OD (mm)	6.0	7.5	7.5	7.5	9.0	9.0	10.5	11.8	14.0	14.0
PRODUCT CODE G.652D	EE820F1 00000600N	EE820F1 00001200N	EE820F1 00000600N	EE820G1 00002400N	EE820G1 00003600N	EE820G1 00004800N	EE820G1 00007200N	EE820G1 00009600N	EE820G1 00010800N	EE820G1 00014400N
PRODUCT CODE G.657.A2	EE850F1 00000600N	EE850F1 00001200N	EE850F1 00001800N	EE850G1 00002400N	EE850G1 00003600N	EE850G1 00004800N	EE850G1 00007200N	EE850G1 00009600N	EE850G1 00010800N	EE850G1 00014400N
MAX. INST. TENSILE STRENGTH (N) EN 60794-1-2, Met. E1	630	650	650	1200	1200	1250	1750	1750	2150	2150
	$\Delta\epsilon_f < 0.5\%$, $\Delta\alpha$ reversible, up to 1.8 x cable weight									
MAX. OP. TENSILE STRENGTH (N) EN 60794-1-2, Met. E1	250	250	250	490	490	510	700	700	750	750
	$\Delta\epsilon_f < 0.2\%$, $\Delta\alpha < 0.05$ dB									
IMPACT RESISTANCE EN 60794-1-2, Met. E4	10 J, 300 mm, T ^a -15 y 20 °C, $\Delta\alpha$ reversible									
CURVATURE EN 60794-1-2, Met. 11	D=20 x $\varnothing$ cable, 10 cycles, $\Delta\alpha < 0.1$ dB									
CRUSH RESISTANCE EN 60794-1-2, Met. E3	1500 N, 1 min, $\Delta\alpha$ reversible									
OPERATING TEMPERATURE EN 60794-1-2, Met. F1	-20°C / 60°C									
WATER PENETRATION EN 60794-1-2, Met. F5C	LP water $\leq$ 3 m (24 hours)									

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.

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Compañía Certificada ISO 9001 – ISO 14001

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