

FTTH CABLE. MICROMODULE STRUCTURE

ORANGE L1092 – DUCT + AERIAL

DESCRIPTION AND APPLICATION

Outdoor, water-blocking, compact fibre-optic cables (12 to 144) with black polyethylene sheath and fibre glass reinforcements incorporated in the sheath. Designed for duct installation (by blowing or pulling) or aerial self-supported overhead lines with short span. These cables are designed for every type of communications networks with G657A2 fibre. Micromodule cables reduce the time needed for deployment, ease of installation and connectorization.

CONSTRUCTION

- 1. Micromodules:** Easy strippable tube with 12 fibres. See identification colours below
- 2. Cable core:** Modules are stranded in SZ without central element.
- 3. Water-blocking** yarns and/or tapes.
- Fibreglass reinforcement elements embedded in the outer sheath.
- Black High density polyethylene UV-resistant sheath.

Markings: According to L1092



TABLE 1: MICROMODULE COLOUR CODE

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

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

OPTIC-FIBRE SPECIFICATIONS

Optic-fibre is according to I'UIT-T G.657A2 (EN 60794-2-50 B6_a2) recommendations.

Transmission:

Attenuation

Maximum @ 1310 nm: 0,36 dB/km

Nominal (90% fibres) / Maximum @ 1550 nm: 0,22 / 0,23 dB/km

Nominal (90% fibres) / Maximum @ 1625 nm: 0,24 / 0,26 dB/km

$PMD \leq 0,20 \text{ ps/km}^{1/2}$

$PMDq \text{ link} \leq 0,08 \text{ ps/km}^{1/2}$

Cut-off wavelength (λ_{cc}) $\leq 1260 \text{ nm}$

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.

Polígono de Malpica, calle D, nº 83. 50016 Zaragoza – SPAIN

+34 976 729 900 | +34 976 729 974

www.cablescom.com | comercial@cablescom.com

Certified Company ISO 9001 – ISO 14001

TITLE
HP_EE85RG6_MS_L1092_M12_i

EDITION
0.1

PREPARED
RG

DATE
2019-07-17

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PRODUCT INFORMATION

L1092 – Modulo 12								
Family code	L1092-1	L1092-2		L1092-3		L1092-4		
Fibre Count	12	24	36	48	72	96	120	144
Modules Count	1	2	3	4	6	8	10	12
Nom Weight (kg/km)	34	56	55	92	95	122	125	130
Nom OD (mm)	6.0	8.1	8.1	10.5	10.5	12.4	12.4	12.4
Tensile Strength Tm (N)	>800	>1200	>1200	>2200	>2200	>2700	>2700	>2700
IEC 60794-1-2 E1	ΔI<0.5%, Δεf<0.3%, Δα reversible (<2 dB/km).							
Impact Resistance	5 J				10 J			
IEC 60794-1-2 E4	r = 10 mm, T° -15°C & 20°C, Δα reversible							
Cut-trough resistance	150N, 3 min.					200N, 3 min.		
IEC 60794-1-2 E12	(Δα reversible, Without perforation)							
Curvature (mm.)	60	80		120		130		
IEC 60794-1-2, Met. E11	10 cycles, Δα<0.1 dB							
Kinking (mm.)	30	40		60		65		
IEC 60794-1-2, Met. E10	No kinking							
Torsion Resistance	±180°/m, L=40N, 10 cycles, Δα<0.1 dB				±180°/m, L=100N, 10 cycles, Δα<0.1 dB			
IEC 60794-1-2, Met. E7								
Crush Resistance	2000N (15min, Δα<0.1 dB et reversible) 2500 N (15min, (Δα reversible)				3000N (15min, Δα<0.1 dB et reversible) 3500 N (15min, (Δα reversible)			
IEC 60794-1-2, Met. E3								
Aeolian Vibration	10ondulations	3 ondulations						
IEC 60794-1-2-A1, Met. E19	T=300hr. (Δα<0.1 dB)							
Thermal cycle	Operation (Δα<0.1 dB et reversible) : TA1=-40°C / TB1=70°C							
IEC 60794-1-2, Met. F1	Stockage (Δα reversible) : TA1=-40°C / TB1=70°C							
Water penetration	LP _{water} ≤ 3 m (168 hr.) (Câble core)							
IEC 60794-1-2, Met. F5B								
Product Code	EE86RG6 0000120GN	EE86RG6 0000240GN	EE86RG6 0000360GN	EE86RG6 0000480GN	EE86RG6 0000720GN	EE86RG6 0000960GN	EE86RG6 0001200GN	EE86RG6 0001440GN

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TITLE	EDITION	PREPARED	DATE
HP_EE85RG6_MS_L1092_M12_i	0.1	RG	2019-07-17