

FTTH CABLE. MICROMODULE STRUCTURE

ORANGE L1092 – DUCT + AERIAL

According to FT/OLNC/OLN/WTC/13/03/14, Version 3.0 Dec 2020

DESCRIPTION AND APPLICATION

Outdoor, water-blocking, compact fibre-optic cables with black polyethylene sheath and fibreglass 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. Micro module cables reduce the time needed for deployment, ease of installation and connectorization.

Family code: EE85RG6, EE86RG6.

CONSTRUCTION

- 1. Micromodules:** Easy strippable tube with G657A2 fibres. See identification colours below
- 2. Cable core:** Modules are stranded in SZ without central element.
- 3. Water-blocking** yarns and/or tapes.
- 4. Fibreglass reinforcement** elements embedded in the outer sheath, and eventual aramid yarns in the cable code.
- 5. Black High density polyethylene UV-resistant sheath.**
Markings: According to L1092



OPTIC-FIBRE SPECIFICATIONS

Optic-fibre is according to 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 ≤ 0,20 ps/km^{1/2}

Cut-off wavelength (λ_{cc}) ≤ 1260 nm

PRODUCT INFORMATION

Family code	L1092-13
Cablescom Cable Code	EE85RG60000240WN
Fibre Count	24
Modules Count	4
Nom Weight (kg/km)	67
Nom OD (mm)	9.0
Tensile Strength T _m (N)	1990
IEC 60794-1-2 E1	$\Delta l < 0.5\%$, $\Delta \epsilon f < 0.3\%$, $\Delta \alpha$ reversible (<0,2 dB/km).
Impact Resistance	5 J
IEC 60794-1-2 E4	$r = 10$ mm, $T^{\theta} -15^{\circ}\text{C}$ & 20°C , $\Delta \alpha$ reversible, No damage to cable elements
Cut-through resistance	150N, 3 min.
IEC 60794-1-2 E12	($\Delta \alpha$ reversible, without perforation)
Curvature (mm.)	95
IEC 60794-1-2, Met. E11	10 cycles, $\Delta \alpha < 0.1$ dB
Kinking (mm.)	50
IEC 60794-1-2, Met. E10	No kinking, $\Delta \alpha$ reversible
Torsion Resistance	$\pm 180^{\circ}/\text{m}$, $L=80\text{N}$, 10 cycles, $\Delta \alpha < 0.1$ dB, r
IEC 60794-1-2, Met. E7	
Crush Resistance	3.000 N (15min, $\Delta \alpha < 0.1$ dB rev) 3.500 N (15min, $\Delta \alpha$ reversible), No damage
IEC 60794-1-2, Met. E3	
Aeolian Vibration	3 ondulations
IEC 60794-1-2-A1, Met. E19	
Thermal cycle	T=300hr. ($\Delta \alpha < 0.1$ dB) Operation ($\Delta \alpha < 0.1$ dB at 1550nm, $\Delta \alpha < 0.2$ dB at 1625nm and reversible) : TA1=-40°C / TB1=70°C Storage ($\Delta \alpha$ reversible) : TA1=-40°C / TB1=70°C
IEC 60794-1-2, Met. F1	
Water penetration	LP water ≤ 3 m (168 hr) (Cable core)
IEC 60794-1-2, Met. F5B	

Cables de Comunicaciones Zaragoza, SL.

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Certified Company ISO 9001 – ISO 14001

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.

TITLE
L1092.13_024

EDITION
1.0

PREPARED
RG

DATE
2021-01-21

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ANNEX TABLE 1: MICROMODULE COLOUR CODE FOR L1092 STANDARD

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	Light Green	
72	144	Red	Blue	Green	Yellow	Violet	White	Orange	Grey	Brown	Black	Light Green	Turquoise
144	288	Red	Blue	Green	Yellow	Violet	White	Orange	Grey	Brown	Light green	Turquoise	Pink
		Red	Blue	Green	Yellow	Violet	White	Orange	Grey	Brown	Light green	Turquoise	Pink

Note: In 288-fibre cables, the micro modules from 1 to 12 will be marked with a ring and the micro modules from 13 to 24 will be marked with 2 rings.
The module number 10 can be coloured Black or Light Green for cables of 12 modules or less.

ANNEX TABLE 2: FIBRE COLOURS FOR ORANGE STANDARDS

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

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