

DESCRIPTION AND APPLICATION

"Loose Tube" type fibre-optic cables with high density polyethylene sheath. This cable is suitable for installation in ducts by (blowing or pulling). For use in medium or long-distance networks.

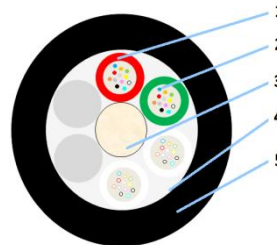
CONSTRUCTION

1. Jelly-filled PBT loose tubes.
2. Optical fibres.
3. Dielectric fibreglass-reinforced central element.
4. Water-blocking yarns and/or tapes.
5. High density polyethylene outer sheath.

Markings:

CABLESCOM / Year / Number of fibres / Type of fibre / Type of sheath / Length markings

Other markings available upon request



OPTICAL FIBRE CHARACTERISTICS

Parameters of optical fibres used in these cables meet the ITU-T recommendation G.652D

Optical transmission characteristics of cabled fibre:

Attenuation coefficient:

Maximum at 1310 nm: 0.40 dB/km

Maximum at 1550 nm: 0.25 dB/km

PRODUCT INFORMATION

Num. Fibres	Fibres per tube	Active Tubes	Passive Tubes	Nominal weight (kg/km)	Nominal OD (mm)	Max. Inst. Tensile strength (N)	Max. Operation Tensile strength (N)
24	12	2	4	80	10.5	1600	900
72	12	6	0	80	10.5	1600	900

Mechanical characteristics	Standard	Test conditions
Installation Maximum Tensile Strength ($\epsilon_f < 0.33\%$)	UNE-EN 60794-1-2, Met. E1	See table
Operation Maximum Tensile Strength ($\epsilon_f < 0.05\%$)	UNE-EN 60794-1-2, Met. E1	See table
Impact resistance ($\Delta\alpha < 0.05$ dB)	UNE-EN 60794-1-2, Met. E4	5 J, 300 mm, 3 impacts
Curvature ($\Delta\alpha < 0.05$ dB)	UNE-EN 60794-1-2, Met. 11	R=20 x Ø cable
Operating temperature ($\Delta\alpha < 0.05$ dB)	UNE-EN 60794-1-2, Met. F1	-20°C / 60°C
Water penetration	UNE-EN 60794-1-2, Met. F5C	LP _{water} ≤ 3 m (24 hours)
Crush resistance	UNE-EN 60794-1-2, Met. E3	500 N, 10 cm

FIBRE AND TUBE COLOUR CODE

Fibre/Tube Colour Abbrev.	1	2	3	4	5	6	7	8	9	10	11	12
	Red	Blue	Green	Yellow	Violet	White	Orange	Grey	Brown	Black	Turquoise	Pink
	Rd	Bl	Gr	Ye	Vi	Wh	Or	Gy	Br	Bk	Tq	Pk

Note: Colour code also available according to TIA 598 or others.

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

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
HP_EE2P01B_i

EDITION
0

APPROVED BY
E. Huang

DATE
2018-01-17