

INDOOR/OUTDOOR - FvT Sheath

MULTITUBE FIBRE-OPTIC CABLES



DESCRIPTION AND APPLICATION

"Loose Tube" type fibre-optic cables with fibreglass yarns and LSZH thermoplastic sheath for indoor and outdoor installation.

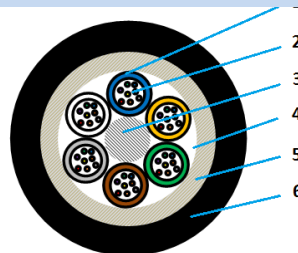
For use in medium or long-distance networks.

CONSTRUCTION

1. Jelly-filled PBT loose tubes.
2. Optical fibres.
3. Dielectric fibreglass-reinforced central element.
4. Water-blocking yarns and/or tapes.
5. Fibreglass yarns as traction element and rodent resistance.
6. Outer LSZH thermoplastic sheath. UV protected.

Markings:

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



PRODUCT INFORMATION

Code	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)
EE612WW0000320WN	32	8	4	2	120	11.0	3000	1900

Mechanical characteristics	Standard	Test conditions
Installation Maximum Tensile Strength ($\epsilon_f < 0.33\%$)	UNE-EN 60794-1-2, Met. E1	See table above
Operation Maximum Tensile Strength ($\epsilon_f < 0.05\%$)	UNE-EN 60794-1-2, Met. E1	See table above
Impact resistance ($\Delta\alpha$ reversible)	UNE-EN 60794-1-2, Met. E4	5 J, $r = 300$ mm, 3 impacts
Curvature ($\Delta\alpha$ reversible)	UNE-EN 60794-1-2, Met. 11	$R = 20 \times$ cable OD
Operating temperature ($\Delta\alpha$ reversible)	UNE-EN 60794-1-2, Met. F1	$-20^\circ\text{C} / 60^\circ\text{C}$
Water penetration	UNE-EN 60794-1-2, Met. F5C	$LP_{\text{water}} \leq 3$ m (24 hours)
Crush	UNE-EN 60794-1-2, Met. E3	2000 N, 10 cm
Flame propagation	UNE-EN 60332-1-2	
Smoke density	UNE-EN 61034-2	Transmittance $> 50\%$
Crush	UNE-EN 60794-1-2, Met. E3	1000 N, 10 cm

Fibre colour code: Green – Red – Blue – Yellow – Grey – Violet – Brown – Orange

Tube colour code: White – Red – Black (Passive) – Blue – Green – Black (Passive).

Optical fibre characteristics: See Annexes – Optical fibre characteristics.

Average / Maximum Attenuation @1310nm : 0.36/0.38 dB/km

Average / Maximum Attenuation @1550nm : 0.22/0.25 dB/km

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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Certified Company ISO 9001 – ISO 14001

TITLE	EDITION	APPROVED BY	DATE
HP_EE2018100051_1050_LT_FvT_i	1	R.G.	2018-06-07