

INDOOR/OUTDOOR - TFvT Sheath

MULTITUBE FIBRE-OPTIC CABLES – EE21517



DESCRIPTION AND APPLICATION

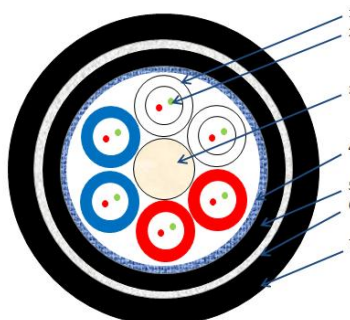
“Loose Tube” type fibre-optic cables with a double LSZH thermoplastic sheath and fibreglass yarns. These cables can be installed in trays, conduits or floors, for medium or long distance networks.

CONSTRUCTION

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

Markings:

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



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)
12	2	6	0	150	12.3	3200	1900

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 impact
Curvature ($\Delta\alpha < 0.05$ dB)	UNE-EN 60794-1-2, Met. 11	R=20 x $\varnothing$ 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} $\leq$ 3 m (24 hours)
Crush	UNE-EN 60794-1-2, Met. E3	2500 N, 10 cm
Flame propagation	UNE-EN 60332-1-2	
Smoke density	UNE-EN 61034-2	Transmittance > 50 %

COLOUR CODE

Tube	Tube Colour	Fibre 1 Colour	Fibre 2 Colour
Tube 1	White	Green	Red
Tube 2	White	Green	Red
Tube 3	Red	Green	Red
Tube 4	Red	Green	Red
Tube 5	Blue	Green	Red
Tube 6	Blue	Green	Red

Optical fibre characteristics: See Annexes – Optical fibre characteristics.

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
HP_EE21517

EDITION
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APPROVED BY
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DATE
2019-07-10