

DESCRIPTION AND APPLICATION

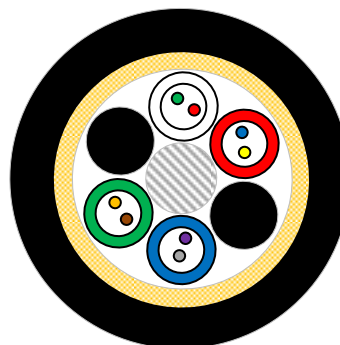
The micro optical fibre cable has been developed to fulfil the needs of telecom operators seeking compact solutions for installing cables in ducts or on telephone poles.
The cable is highly recommended for the deployment of a rural fibre-optic network.

CONSTRUCTION

1. Loose Tubes: PBT loose tubes filled with thixotropic compound, stranded around a central FRP element. Colour coding according to tables 1 and 2.
2. Optical fibres: Single-mode optical fibres according to ITU-T G.652 D. Colour coding of fibres green and red.
3. Central Element: Dielectric fibreglass central reinforced element.
4. Mechanical reinforcement: Aramid yarns as traction resistant.
5. Outer jacket: Black polyethylene sheath.

Sheath marking: The cables will be marked with the following information

- CABLESCOM / Year / Fibre Num / Fibre Type / Sheath Type / Length markings
- Other marks are available on request



OPTICAL FIBRE CHARACTERISTICS

The parameters of the optical fibres used in these cables meet the ITU-T recommendation G 652D.
See our fibre product sheet for the characteristics of the fibre.

Optical transmission characteristics of cabled fibre:

Attenuation coefficient:

Average/Maximum at 1310 nm: 0.36/0.37 dB/km

Average/Maximum at 1550 nm: 0.22/0.24 dB/km

PMD link ≤ 0.20 ps/km^{1/2}

PMD Q ≤ 0.20 ps/km^{1/2}

Cut-off wavelength (λ_{cc}) ≤ 1260 nm

LOOSE TUBES AND FIBRE COLOUR CODE

# Loose tube	Colour Tube	Colour Fibre
1	White	Green
		Red
2	Red	Blue
		Yellow

# Loose tube	Colour Tube	Colour Fibre
3	Blue	Grey
		Violet
4	Green	Brown
		Orange

PRODUCT INFORMATION

Code	Num. Fibres	Nominal OD (mm)	Nominal weight (kg/km)
EE6142N0000080WN	8	7,3	40

Mechanical characteristics	Standard	Test conditions
MOT ($\Delta\alpha < 0.05$ dB, $\Delta\epsilon_f < 0.05\%$)	IEC 60794-1-2 Met. E1	1000 N
MAT ($\Delta\alpha < 0.05$ dB, $\Delta\epsilon_f < 0.20\%$)	IEC 60794-1-2 Met. E1	1600 N
Crush resistance ($\Delta\alpha < 0.05$ dB)	IEC 60794-1-2 Met. E3	1200 N
Impact resistance ($\Delta\alpha < 0.05$ dB after test)	IEC 60794-1-2 Met. E4	5 J, r = 300 mm
Curvature ($\Delta\alpha < 0.05$ dB)	IEC 60794-1-2 Met. E11A	r = 15 x \varnothing cable, 5 loops, 3 cycles
Temperature cycling (operation, $\Delta\alpha < 0.05$ dB)	IEC 60794-1-2 Met. F1	-20°C / 60°C
Water penetration test	IEC 60794-1-2 Met. F5	LP _{water} ≤ 1 m (14 days)

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.