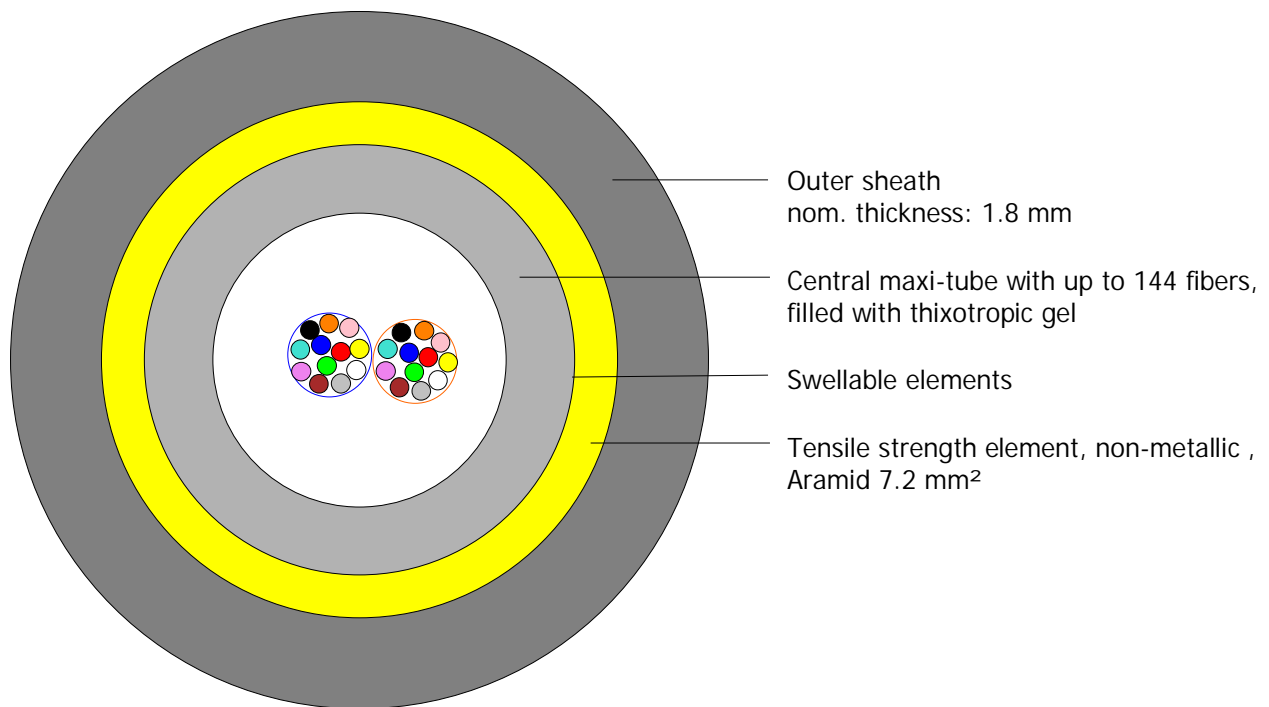


Non-metallic self-supporting aerial cable with 2 up to 144 fibers monomode fibers E9/125 SMF 28e[™]



Principle drawing for a A A-D(T)2Y 7.2 mm² 1x(2x12) E9/125 0.36F3.5 + 0.22H18

A-D(T)2Y 7.2 mm² 2 to 144 E9/125 0,36F3,5 + 0,22H18

Design and special properties

- All dielectric self-supporting aerial cable
- Non-metallic strength members (yarns) to realise high tensile loads
- Cable with a central maxi-tube design, fully filled
- Outer jacket of polyethylene (cable should not be used where tracking resistance is required)
- Single mode fibers fully compliant to standard ITU G.652 D (reduced OH- peak) showing low attenuation throughout the 1285 nm to 1625 nm wavelength range
- Color code of the fibers according to Telcordia (Bellcore)

Evolant[®] Solutions

Data sheet

Aerial - Cable

Coloring

Fibers: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Fiber-bundles: for > 12 to 144 fibers up to 12 fiber bundles, each with 8 or 12 fibers
yarn coloring: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise

Outer jacket: black
Cable printing: without

Characteristics of fibers E9/125 SMF 28eTM - low water peak fiber -

Optical and mechanical:

Mode field diameter at 1310 nm	[μm]	9.2 ± 0.4
Cladding diameter	[μm]	125.0 ± 0.7
Coating diameter	[μm]	245 ± 5
Attenuation at 1310 nm	[dB/km]	≤ 0.36
Attenuation at 1550 nm	[dB/km]	≤ 0.22
Attenuation at 1383 nm	[dB/km]	≤ 0.36
Dispersion in the range 1285 to 1330 nm	[ps/(nm*km)]	≤ 3.5
Dispersion at 1550 nm	[ps/(nm*km)]	≤ 18
Cable cutoff Wavelength (λ_{ccf})	[nm]	≤ 1260

The fibers are fully in compliance with ITU-T G. 652.D and annexes.
Other options are available on request.

Technical cable characteristics

Mechanical and environmental:

Crush resistance	[N/10 cm]	2000
Impact resistance (E = 5 Nm, r = 300 mm)	[impacts]	1
Temperature range	Laying and installation Operation Transport and storage	[$^{\circ}\text{C}$] -5 to 50 -30 to 70 -40 to 70

Number of fibers A-D(T)2Y ...	Outside \varnothing [mm]	Weight [kg/km]	Max. allowed tension (MAT) (*) [N]	Every day stress (EDS) (*) [N]	Bend radius for installation [mm]	Bend radius in operation [mm]
2-12	9,6	71	5600	2100	163	150
16	10,8	88	6400	2500	185	145
24	10,8	88	6400	2500	185	145
32	10,8	88	6400	2500	185	165
48	10,8	88	6400	2500	185	165
64	12,7	118	5600	2100	215	190
72	12,7	118	5600	2100	215	190
96	12,7	118	5600	2100	215	190
120	14,5	155	5600	2100	245	220
144	14,5	155	5600	2100	245	220

(*) Depending on local conditions, sag calculations are necessary

Delivery length up to 6 km

Other options are available on request.