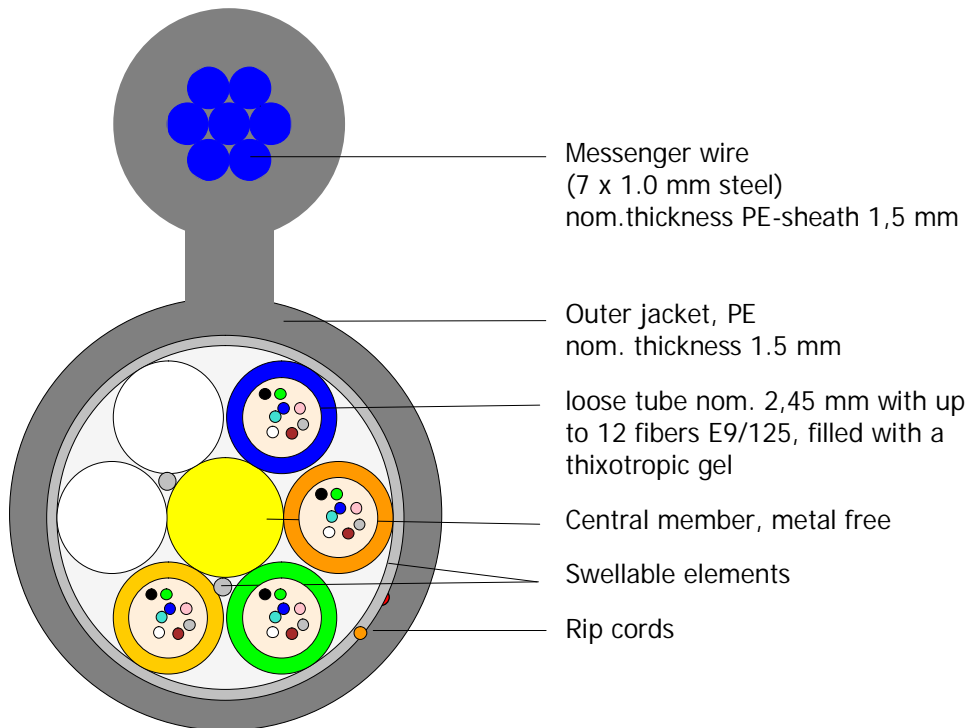


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Data sheet

Aerial - Cable

Self-supporting aerial fig. 8-cable (7x1.0) with up to 144 monomode fibers E9/125 SMF 28e™



Principle drawing for a A-DT2Y 4x8 E9/125 0,36F3,5 + 0,22H18 LG (7x1,0)

A-DT2Y 4 - 144 E9/125 0,36F3,5 + 0,22H18 LG (7x1,0)

Design and special properties

- Self-supporting aerial fig. 8-cable with steel suspension strand for installation on poles (span length dependence of the environmental conditions and the installation conditions)
- Loose tube tubes design, tubes filled with a thixotropic gel
- Dry cable core: waterswellable elements over the cable core.
- Mono mode fibers fully compliant to standard ITU G.652D with low attenuation throughout the 1310 nm to 1550 nm wavelength range
- Steel suspension strand 7 x 1.0 mm, other options are available on request
- PE jacket, black, UV-resistance,
- Telcordia standard (Bellcore) for fiber and loose tube coloring

Coloring

Fibers: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Buffer tubes: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Outer jacket: black

Cable printing: Meter hand set double sinus CORNING year

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Ariel - Cable

Characteristics of fibers E9/125 SMF 28e[™] - 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:

Cable type: A-DT2Y ...					
No. of fibers		4-72	96	144	
No. of tubes		1-6	8	12	
No. of stranding elements		6	8	12	
Outer dimensions cable (diam. cable x total height)	[mm]	11,2 x 20,2	12,7 x 21,7	16,0 x 25,0	
Messenger wire - steel	[mm]	7 x 1.0	7 x 1.0	7 x 1.0	
Weight	[kg/km]	162	192	260	
Min. bending radius during install.	[mm]	190	215	275	
Min. bending radius installed	[mm]	170	190	240	
Max. tensile load during installation	[N]	4000	4000	4000	
Max. tensile load installed (MAT)	[N]	4000	4000	4000	
Compressive stress/crush	[N/10cm]	2.000	2.000	2.000	
Impact resistance (E=3 Nm, r = 300 mm)	[impacts]	30	30	30	
Temperature range and installation	Laying	[°C]	-5 to 50	-5 to 50	-5 to 50
			-30 to 70	-30 to 70	-30 to 70
			-40 to 70	-40 to 70	-40 to 70
	Operation				
	Transport and storage				

Delivery length up to 6 km

Other options are available on request.