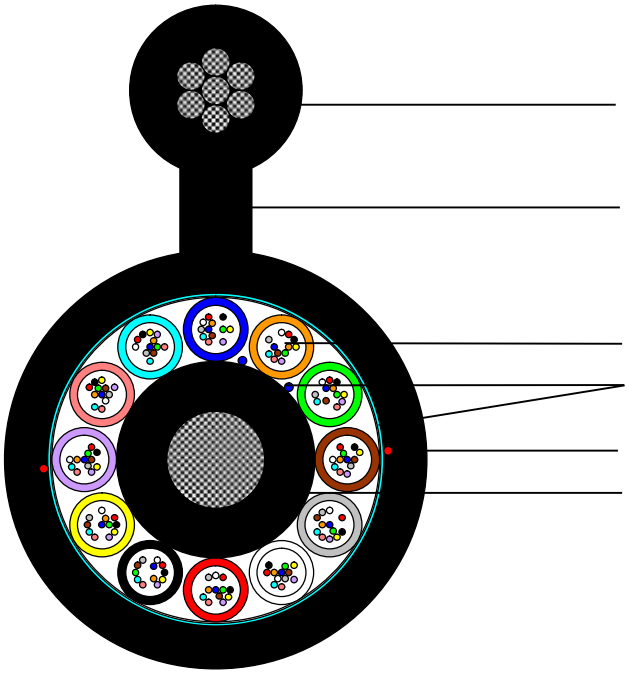
ALTOS® Loose Tube Cables
Data sheet

CORNING

Self-supporting aerial fig. 8-cable (7x1.0)
with 12 and 144 monomode fibers E9/125 SMF 28e+™



Principle drawing: example A-DQT2Y 12x12 E9/125 0,36F3,5 + 0,22H18 LG (7x1,0mm)

A-DQT2Y 1x12 – 12x12 E9/125 0,36F3,5 + 0,22H18 LG (7x1,0mm)

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)
- Single layer loose tube design, tubes filled with a thixotropic gel
- Dry cable core: waterswellable elements over the cable core.
- Designed for span lengths between poles not longer than 75m
- Steel suspension strand 7 x 1.0 mm
- PE jacket, black, UV-resistance
- The used Corning® single-mode fibers E9/125 SMF 28e+™ is fully compliant to standard ITU-T G.652.D (reduced OH- peak) showing low attenuation throughout the 1285 nm to 1625 nm wavelength range
- Telcordia standard for fiber and loose tube coloring
- Cable design acc to Corning Standard

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Coloring

Fibers: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turqouise
Buffer tubes: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turqouise
Fillers: natural, if required to fill up the cable core
Outer jacket: black

Cable printing: : handset + sinus + MOT-OGERO FEFS xxx/9.2/125 xxxF AERIAL G.652D + meter + CORNING + year

" xxx – Number of fibers "

Method: hot foil printing, white

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]	242 ± 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_{cc})	[nm]	≤ 1260

The fibers are fully in compliance with ITU G.652.D and annexes.

Technical cable characteristics
Mechanical and environmental:

Cable type: A-DQT2Y …					
No. of fibers		12 - 72	96	120	144
No. of tubes		1 - 6	8	10	12
No. of stranding elements		6	8	10	12
Outer dimensions cable (diam. cable x total height)	[mm]	10,3 x 19,3	11,7 x 20,7	13,2 x 22, 2	14,7 x 23,7
Messenger wire - steel	[mm]	7 x 1.0	7 x 1.0	7 x 1.0	7 x 1.0
Weight	[kg/km]	155	175	205	
Min. bending radius during install.	[mm]	17,5 x D			
Min. bending radius installed	[mm]	15 x D			
Max. tensile load during install.*	[N]	4000			
Max. tensile load installed (MAT)*	[N]	4000			
Compressive stress/crush	[N/10cm]	2000			
Impact resistance (E=3 Nm, r = 300 mm)	[impacts]	30			
Temperature range Laying + installation Operation Transport and storage	[°C]	-5 to 50 -30 to 70 -40 to 70			

* Depending on local conditions; sag calculations are necessary

Standard delivery length 6 km