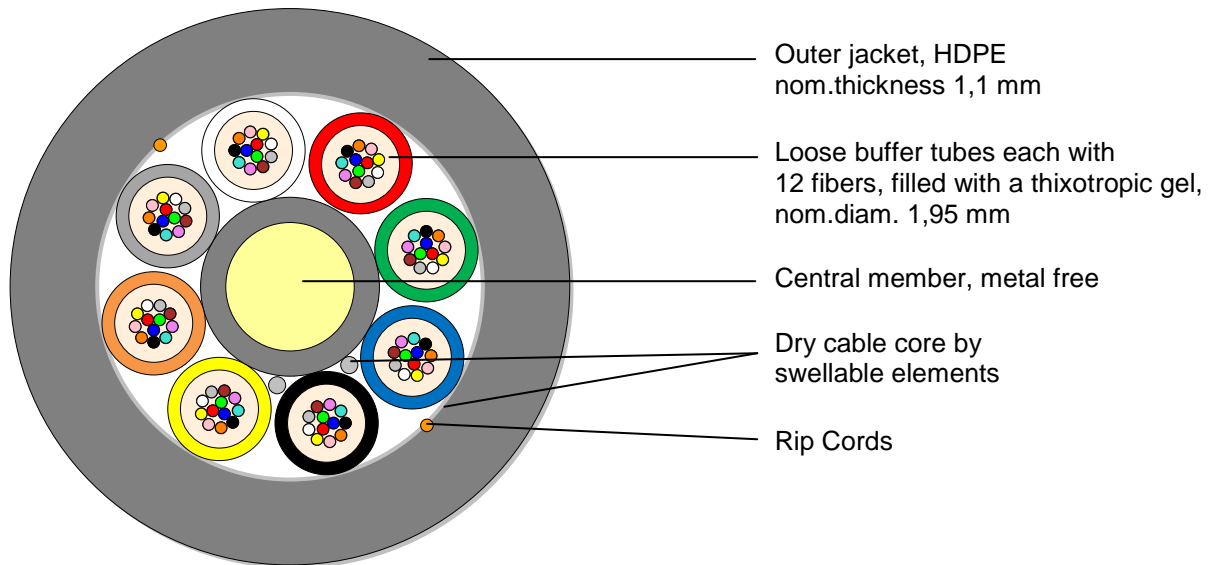


Non-metallic fiber optic duct cable

with 12 - 144 single-mode fibers E9/125 SMF 28e+™



Principle drawing: A-DQ(ZN)2Y 8x12E9/125 0.36F3.5 + 0.22H18 LG

A-DQ(ZN)2Y 1x12 - 12x12E9/125 0.36F3.5 + 0.22H18 LG

Design and special properties

- Light, thin and robust cable
- Cable for pulling into duct systems, laying in concrete channels or on cable racks
- Optimized cable stiffness yields an excellent blowing performance
- Fully dielectric cable requires no grounding or potential equalization
- Dry cable core by swellable elements
- Single-layer construction up to 12 stranding elements
- 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
- PT standard for fiber and loose tube coloring
- Cable design according to Corning standard

Data sheet

Coloring

Fibers: white, red, green, blue, black, yellow, orange, grey, brown, violet, pink, turquoise
Buffer tubes: white, red, green, blue, black, yellow, orange, grey, brown, violet, pink, turquoise
more than 12 tubes: continuous sequence of PT - specification
Fillers: natural, to fill up the cable core

Outer jacket: black

Cable printing: Meters CORNING CABO TONZE Lnnx12U4ST ID number year/guarantee
MEO Servicos de Comunicacoes e Multimedia 1500 N*

*) nn = number of tubes

*) 1500 N: tensile force for each type

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.

Other options are available on request.

Technical cable characteristics

Mechanical and environmental:

Bending radius during installation	[N]	15xD
Crush (test methode acc. IEC 69794-1-2 E3)	[N/10 cm]	2000
Impact (test methode acc. IEC 69794-1-2 E4, 5 J, r=300 mm)	impacts	1 in 3 pos.
Temperature range	[°C]	-5 to 50
Laying and installation		-30 to 70
Operation		-40 to 70
Transport and storage		
Water penetration (0.1 bar / 24 h)	[m]	≤ 3

Cable type	No. of fibers	No. of tubes	No. of stranding elements	Outer Ø [mm]	Weight [kg/km]	Tensile Force [N]
A-DQ(ZN)2Y ...						
1x12 – 6x12	12 - 72	1 - 6	6	8,3	55	1500
8x12	96	8	8	9,5	71	1500
12x12	144	12	12	12,2	115	2200

Delivery:

Delivery length up to 6 km