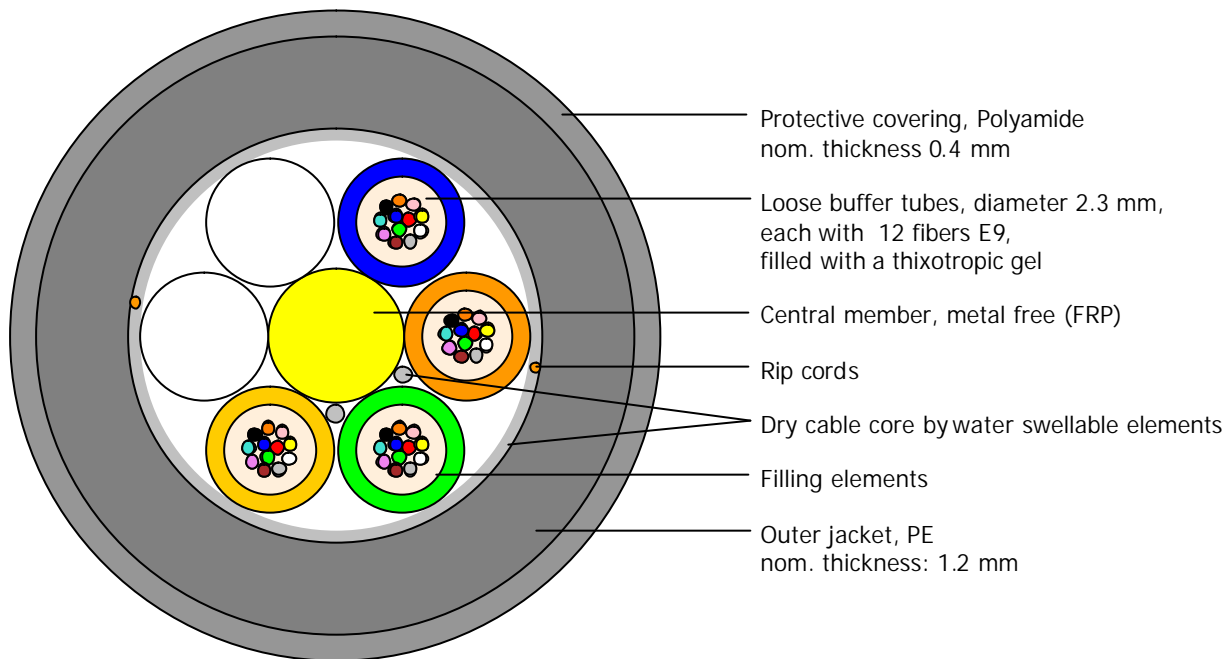


Non-metallic fiber optic duct cable 24, 48 or 96 monomode fibers E9/125 SMF 28e™ oil/chemical-resistant



Principle drawing

A-DQ(ZN)2Y4Y 2x12 E9/125 0,36F3,5 + 0.22H18 LG
A-DQ(ZN)2Y4Y 4x12 E9/125 0,36F3,5 + 0.22H18 LG
A-DQ(ZN)2Y4Y 8x12 E9/125 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 and on cable racks
- Cable for the application in areas with rodents and direct buried in sand beds
- Chemical resistant and resistant to most petrochemical agents by Polyamide jacket
- Polyamide jacket for improved rodent resistance
- Stranded minibundle (loose tube) design
- Loose tube material: in two layers in the material combination PC/PBT
- Non-hygroscopic filling elements, material Polyolefin
- Single-layer stranded construction, S/Z stranding
- Dry cable core by water swellable elements
- Non-metallic construction, no problems with grounding or potential equalization
- Outer jacket PE, UV resistant
- Protective covering Polyamide, UV resistant
- Telcordia standard (Bellcore) for fiber and loose tube coloring
- Cable design according to Corning FiberWay

Coloring

Fibers: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
 Buffer tube: blue, orange, green, brown, grey, white, red, black
 Filling elements: natural, to fill up the cable core
 Outer jacket PE: black
 Protective covering PA: black

Cable printing: <meter marking> <handset> <double sine> CORNING <year>
 Method: hot foil printing

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_{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:

Number of fibers		24 or 48	96
Number of fibers per tube		12	12
Number of tubes		2 or 4	8
Tube diameter	[mm]	2.3	2.3
Number of stranding elements		6	6
Outer diameter of the cable, approx.	[mm]	10,7	12,1
Weight of the cable, approx.	[kg/km]	85	108
Max. tensile load during installation (short term)	[N]	2700	2700
Min. bending radius during installation	[mm]	190	215
Crush strength	[N/100 mm]	2000	2000
Temperature range	Laying and installation Operation Transport and storage	[°C]	-5 to 50
			-30 to 70
			-40 to 70
Water penetration up to the PE jacket (0.1 bar / 24 h)	[m]	≤ 3	≤ 3

Delivery length

Delivery length up to 6 km