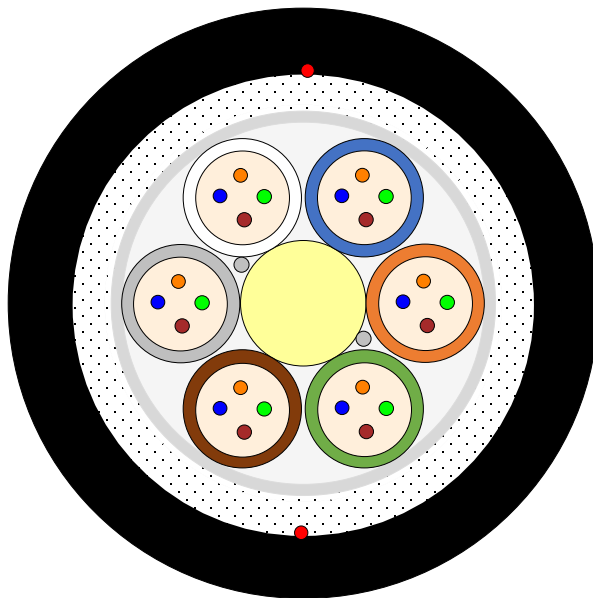


Data sheet

Armored Non-metallic fiber optic duct cable, with 24 Corning single-mode fibers E9/125 SMF 28e+™



Outer jacket, HDPE
nom. thickness: 1.1 mm

Loose buffer tubes, nom.diam. 1,95 mm
each with 4 fibers, filled

Central member, metal free

Dry cable core by
swellable elements

Glass yarn armoring

Rip cords

A-DQ(ZN)B2Y 6x4 E9/125 0.36F3.5 + 0.22H18 LG

Design and special properties

- Corning glass-yarn armored loose tube cables are designed for outdoor use. The cables can be installed in conduits, ducts and be buried directly in the ground
- Light, thin and robust cables
- Improved rodent resistance provided by laminated glass yarns
- Fully dielectric cable requires no grounding or potential equalization
- Dry cable core: waterswellable elements over the cable core
- Outer jacket of polyethylene HDPE, UV resistant
- 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
- Telcordia standard for fiber and loose tube coloring
- Cable design according to CORNING standard

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Data sheet

Coloring

Fibers: blue, orange, green, brown
Buffer tubes: blue, orange, green, brown, grey, white

Outer jacket: black

Cable printing: Metre - Handset - Sine - CORNING - Year - ALTOS A-DQ(ZN)B2Y 6x4 E9 LT 2.0

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:

Crush (test methode acc. IEC 69794-1-2 E3)	[N/10 cm]	1500
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, approx. [mm]	Weight, approx. [kg/km]	Min. bending radius during install. [mm]	Max. tensile load during installation [N]
A-DQ(ZN)B2Y ...							
6x4	24	6	6	8,7	65	174	2700

Delivery length

Standard delivery length: 6 km