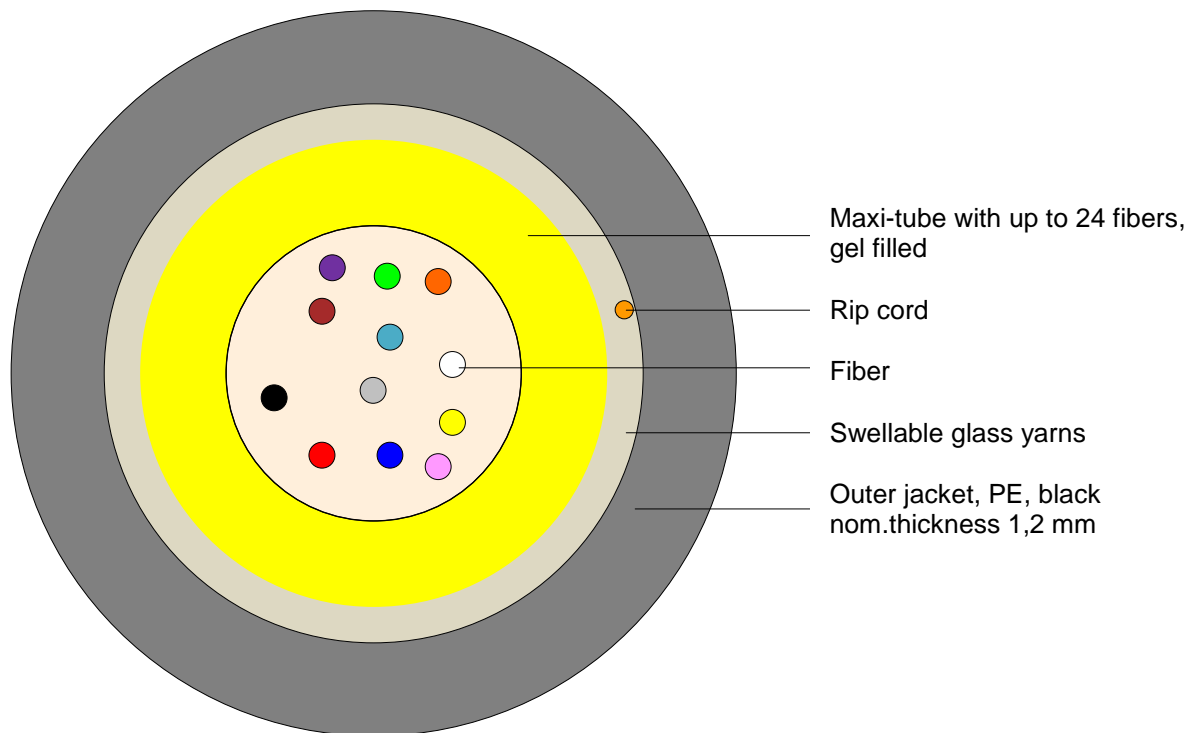


Armored Campus Backbone Cables

with 24 single-mode fibers E9/125 SMF-28[®]ULTRA

with low-loss and improved bend performance technologies



Principle Drawing: A-DQ(ZN)B2Y 1x12 E9U/125 0.34F3.5 + 0.20H18

A-DQ(ZN)B2Y 1x24 E9U/125 0.34F3.5 + 0.20H18

Design and special properties

- Especially light, thin and robust cables
- Cable for the use within and between buildings, pulling into duct systems, laying in concrete channels and on cable racks and in areas with rodents
- Central tube construction
- Non-metallic construction, no problems with grounding or potential equalization
- Complete dry cable design
- Improved rodent resistance provided by laminated glass yarns
- Water blocking to IEC 60794-1-F5
- The used Corning[®] single-mode fiber SMF-28[®]ULTRA optical fiber is an ITU-T G652.D compliant optical fiber with Corning's enhanced low loss and bend technologies. This full-spectrum fiber has bend performance that exceeds the ITU-T G.657.A1 standard and still splices the same as the installed base of standard SM fibers such as SMF28e+[®]
- Telcordia standard for fiber coloring
- Cable design acc to Corning standard

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Data sheet

Coloring

Fibers: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, aqua
 Fiber bundels: blue, orange (only at the 24F version)
 Central tube: yellow

Outer jacket: black

Cable printing: "CORNING" "FPDN-24-(G.657A)" "STC" * ID Number (8 digit) "Made in Poland(Turkey)" "2706180300377" month/year e.g. "05/2017"

Method: hot foil printing, white

Characteristics of fibers SMF-28[®]ULTRA (low loss and bend improved 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]	≤ 0.34
Attenuation at 1550 nm	[dB/km]	≤ 0.20
Attenuation at 1383 nm	[dB/km]	≤ 0.34
Dispersion in the range 1285 to 1330 nm	[ps/(nm*km)]	≤ 3.5
Max.Dispersion at 1550 nm	[ps/(nm*km)]	≤ 18
Cable cutoff Wavelength (λ_{cc})	[nm]	≤ 1260
PMD cabled (link value)	Ps/√	≤ 0,04*
Max.PMD cabled (single fiber)	Ps/√	≤ 0,1

*) Complies with IEC 60794-3:2001,Section 5.5, Method 1 (m=20,Q=0,01%)

The fibers is fully compliant with ITU-T G.652.D standard and exceeds ITU-T G.657.A1 standard

Technical cable characteristics

Mechanical and environmental:

Number of fibers		2 - 12	24
Diameter maxi tube	[mm]	3.0	5.0
Diameter cable, approx.	[mm]	6.4	8.6
Cable weight, approx.	[kg/km]	34	59
Max. tensile load during installation	[N]	1000	1500
Crush (test methode acc. IEC 69794-1-2 E3)	[N/10 cm]	1500	1500
Impact 15 N/m (test methode acc. IEC 69794-1-2 E4, (5J, r = 300 mm, attenuation increase reversible, no fiberbreak)	impacts	3 at difference places	
Min. bending radius during installation	[mm]	20xD	
Temperature range	Laying and installation Operation Transport and storage	-5 to 50 -30 to 70 -40 to 70	
Water penetration (0.1 bar / 24 h)	[m]	≤ 3	

Delivery length

Standard delivery length 6 km