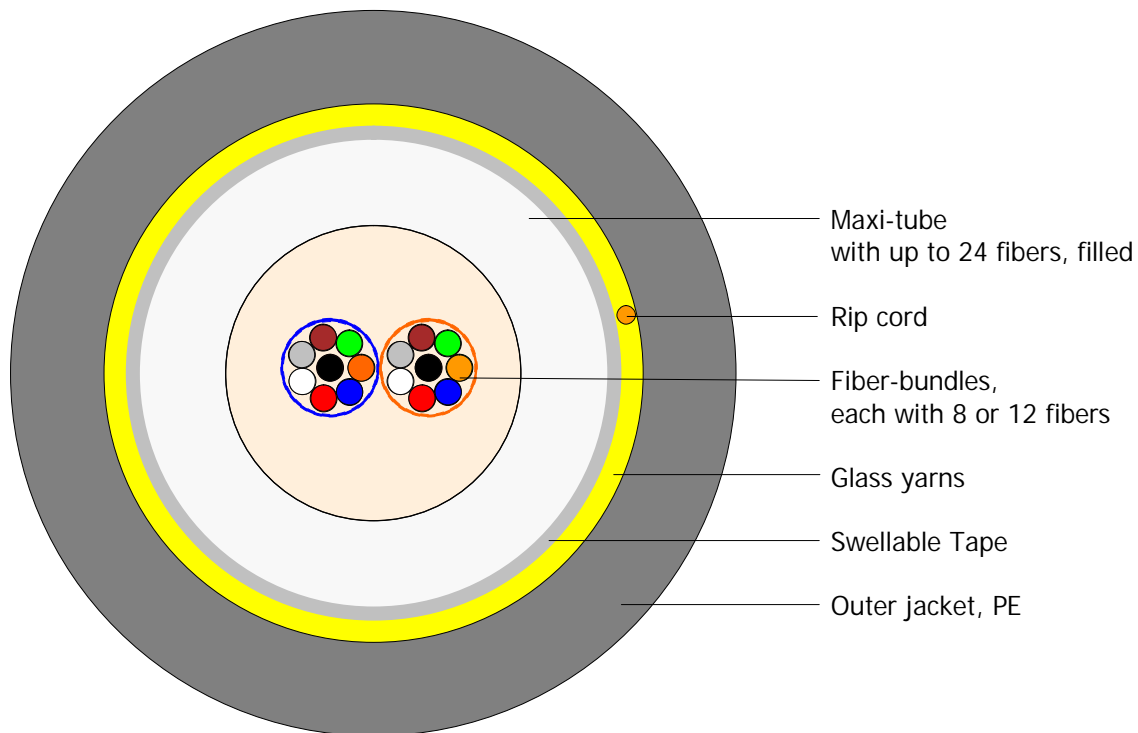


### Armored Campus Backbone Cables

with 2 up to 24 single-mode fibers E9/125 SMF 28e<sup>™</sup>



#### Principle Drawing

Example: A-DQ(BN)2Y 1x(2x8) E9/125 0.36F3.5 + 0.22H18

A-DQ(BN)2Y 1x2 - 1x24 E9/125 0.36F3.5 + 0.22H18

#### 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
- 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 (Bellcore) for fiber and loose tube coloring
- Cable design according to Corning standard

# Evolant<sup>®</sup> Solutions

## Data sheet

# Duct - Cable

### Coloring

Fibers: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise  
Fiber-bundles: for > 12 to 24 fibers: two fiber bundles, each with 8 or 12 fibers  
yarn coloring of the fiber-bundles: blue, orange  
Maxi-tube: natural  
Outer jacket: black  
Cable printing: meter marking      handset      double sinus      CORNING      year  
Method: hot foil printing

### Characteristics of fibers E9/125 SMF 28e<sup>™</sup> - low water peak fiber -

#### Optical and mechanical:

Mode field diameter at 1310 nm	[ $\mu\text{m}$ ]	9.2 $\pm$ 0.4
Cladding diameter	[ $\mu\text{m}$ ]	125.0 $\pm$ 0.7
Coating diameter	[ $\mu\text{m}$ ]	245 $\pm$ 5
Attenuation at 1310 nm	[dB/km]	$\leq$ 0.36
Attenuation at 1550 nm	[dB/km]	$\leq$ 0.22
Attenuation at 1383 nm	[dB/km]	$\leq$ 0.36
Dispersion in the range 1285 to 1330 nm	[ps/(nm*km)]	$\leq$ 3.5
Dispersion at 1550 nm	[ps/(nm*km)]	$\leq$ 18
Cable cutoff Wavelength ( $\lambda_{cc}$ )	[nm]	$\leq$ 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		2 - 12	16 - 24
Diameter maxi tube	[mm]	3.0	5.0
Diameter cable, approx.	[mm]	7.0	9,0
Cable weight, approx.	[kg/km]	45	62
Max. tensile load during installation	[N]	1000	1500
Min. bending radius during installation	[mm]	140	220
Temperature range	Laying and installation Operation Transport and storage	[ $^{\circ}\text{C}$ ]	-5 to 50 -30 to 70 -40 to 70
Water penetration (0.1 bar / 24 h)		[m]	$\leq$ 3

### Delivery length

Standard delivery length 6 km

Other options are available on request