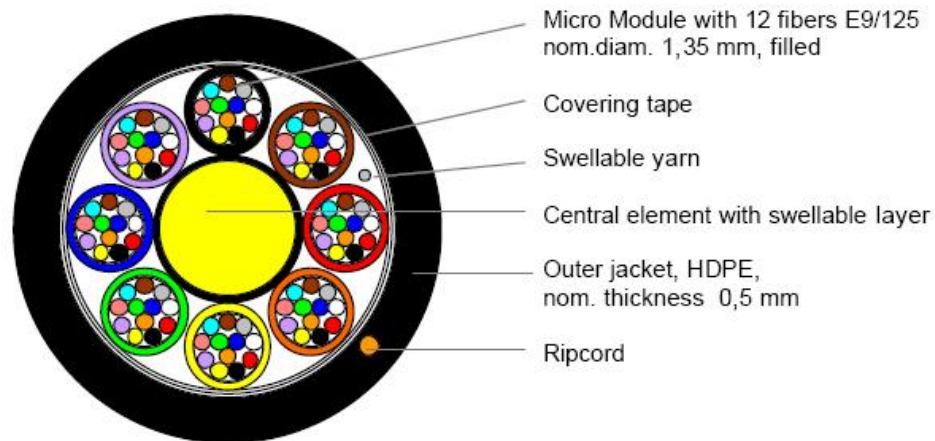


Data sheet

Draft

Micro cable with micro modules up to 96 Single Mode Fibers E9/125 SMF 28e+™



Principle drawing

A-DQ(ZN)2Y 8x12 E9/125 0.36F3.5 + 0.22H18 LG

Design and special properties

- Cable for installation into miniduct systems, suitable for Metro, Access or FTTx implementations
- Extremely compact; small diameter, low weight cable
- Low friction HDPE cable sheath, optimized cable stiffness for best blowing properties into mini ducts
- Fully dielectric construction requires no grounding
- Micro Modules with different colours providing easy identification
- Micro Modules for easy removing without any tools
- The used Corning[®] single-mode fibers SMF-28e+™ are fully compliant to standard ITU-T G.652.D (reduced OH- peak) showing low attenuation throughout the 1285 nm to 1625 nm wavelength range

Coloring

Fibers: black, brown, red, orange, yellow, green, blue, purple, gray, white, pink, aqua
 Tubes: 8 Micro Modules: black, brown, red, orange, yellow, green, blue, purple

Cable printing: According to customer specification
 Method: Inkjet

Characteristics of fibers E9/125 FMF 28e+™ – Low Water Peak Fibers according to ITU-T G. 652D

Optical and geometrical:

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
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
PMD Link Design Value	Ps/√km	≤ 0.06*
PMD maximum individual fiber	Ps/√km	≤ 0.1

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

Technical cable characteristics

Mechanical and environmental:

Number of fibers		96	
No. of Modules		8	
Fibers per Module		12	
Outer diameter of the cable, typical	[mm]	6,3	
Outer diameter of the cable, max.	[mm]	6,7	
Weight of the cable, typical	[kg/km]	28	
Max. tensile load during installation	[N]	520	
Max.tensile load during operation	[N]	250	
Crush (attenuation increase reversible)	[N/10 cm]	1000	
Bending radius, permanent/during operation (w/o load)	[mm]	25 x cable diameter	
Bending radius, during installation ($n_i = 30$ with load $k \times P$)	[mm]	30 x cable diameter	
Temperature range	Installation	[°C]	-5... +50
	Operation	[°C]	-20... +60

Delivery length: 2km, 4km or 6km