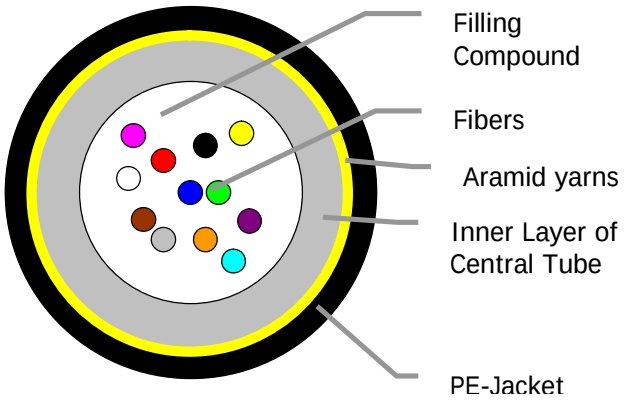
Evolant® Solution

Data sheet

MiniXtend - Cable

Fully Dielectric Mini Duct Cable

with 2 -12 Corning® single-mode fibers E9/125 SMF-28®ULTRA with low-loss and improved bend performance technologies



Principle drawing for a A-D(ZN)2Y 1x12 E9ULTRA/125 0.34F3.5 + 0.20H18

Features & Benefits

Dual layer central tube design and the PE sheath provides

- Optimized cable stiffness and low friction sheath material for excellent installation performance
- Good mechanical and environmental properties
- Fully dielectric duct cable requires no grounding
- 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+®

Cable type	Fibers	Diameter (mm)	Weight (kg/km)	Bending radius (mm)
A-D(ZN)2Y 1x2	2	2,5	4,5	20
A-D(ZN)2Y 1x4	4	2,5	4,5	20
A-D(ZN)2Y 1x6	6	2,5	4,5	20
A-D(ZN)2Y 1x8	8	2,5	4,5	20
A-D(ZN)2Y 1x12	12	2,5	4,5	20

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CORNING

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Colour coding

Fibers: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Jacket: black

Cable printing: Meter + hand set + sinus + CORNING + year +
A-D(ZN)2Y 1 x nn*E9ULTRA/125
*nn = number of fibers

Method: Laser

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

Characteristics of cable

Mechanical and environmental:

Tensile strength during installation	[N]	80
Impact resistance (3 impacts, 300mm hammer radius)	[Nm]	1
Crush resistance	[N/10 cm]	850
Operation temperature range	[°C]	-20...+70
Installation temperature range	[°C]	-5...+50
Water penetration (0.1 bar, 24 h)	m	≤ 1

Delivery:

Delivery length up to 6 km