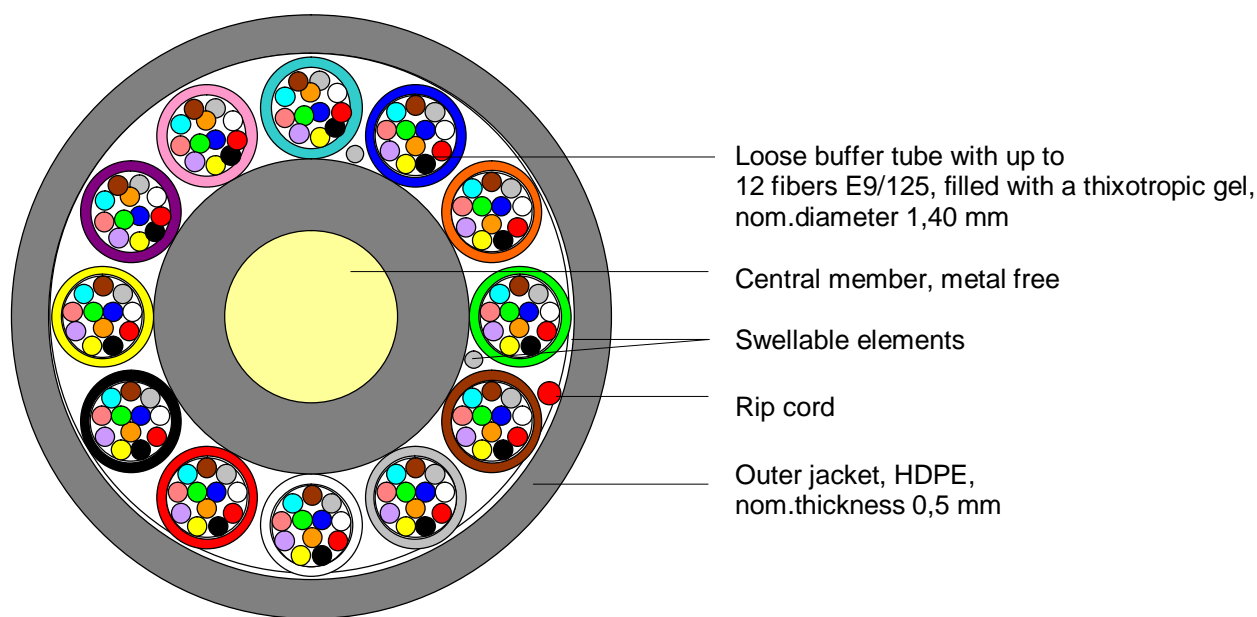


Stranded loose tube MiniXtend cable

with 12 up to 144 single-mode fibers E9/125 SMF-28[®]ULTRA
with low-loss and improved bend performance technologies



Principle drawing: A-DQ(ZN)2Y 12x12 E9U/125 0.34F3.5 + 0.20H18 LG

MiniXtend A-DQ(ZN)2Y 1x12 – 12x12 E9U/125 0.34F3.5 + 0.20H18 LG

Design and special properties

- Cable for installation into miniduct systems, suitable for Metro, Access or FTTx implementations
- Incremental capacity installation capability results in reduced capital expenditure
- Extremely compact; small diameter; low weight cables
- Reduced duct utilisation and easy installation, optimized cable stiffness
- Fully dielectric construction requires no grounding
- Fiber tubes with different colors resulting in easy identification
- Stranded Loose Tube structure ensures jointing and network configuration compatibility with conventional designs
- 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 design and color code acc. to Corning spec

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Data sheet

Coloring

Fibers:	blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Tubes:	blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Filling elements:	natural, if required, to fill up the cable core
Outer jacket:	black
Cable printing:	Meter + Handset + Sine + CORNING + YEAR + MINIXTEND (TM) CABLE A-DQ(ZN)2Y nn X mm* E9 LT1.4 *) nn = no of tube, mm = fibers/tube
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

Technical cable characteristics

Mechanical and environmental:

Max. tensile load during installation	[N]	up to 72F = 350 96 and 144F = 1000
Crush, short term	[N/10 cm]	1000
Bending radius, permanent	[mm]	15xD
Bending radius, during installation	[mm]	20xD
Impact (E=3 Nm, hammer radius R=300 mm attenuation increase reversible Δλ ≤ 0,05 dB)	impacts	1 at 3 different places
Temperature range	[°C]	-5... +40
Installation	[°C]	-30... +70
Operation	[°C]	-30... +70
Transport & Storage	[°C]	-30... +70
Water penetration (0.1 bar / 24 h)	[m]	≤ 1

Cable type	No. of fibers	Fibers per tube	No. of tubes	No. of passive fillers	Outer Ø [mm]	Weight approx. [kg/km]
1 x 12	12	12	1	5	5.3 ± 0,3	23
2 x 12	24	12	2	4	5.3 ± 0,3	23
4 x 12	48	12	4	2	5.3 ± 0,3	23
5 x 12	60	12	5	1	5.3 ± 0,3	23
6 x 12	72	12	6	0	5.3 ± 0,3	23
8 x 12	96	12	8	0	6.3 ± 0,3	35
12 x 12	144	12	12	0	8.0 ± 0,3	53

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Delivery length

Standard delivery length: 4.000m