

MiniXtend® Cable with Binderless FastAccess™ Technology

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Features and Benefits

Binderless FastAccess™ Technology

Innovative cable design that reduces cable access time up to 70% and lowers the risk of inadvertent fibre damage

Improved cable and fiber density

Small cable OD enables higher density and lower deployment cost; up to 96 fibres in 8 mm ID duct and up to 144 fibres in 10 mm ID duct

Optimised for air-assisted install in microducts

Capable of installation distances greater than 2000 m (6560 ft) at speeds up to 150 m/min (490 ft/min)

Mid-span express buffer tube performance

Meets the Telcordia GR-20 and RDUP/RUS PE-90 requirements for mid-span express buffer tube storage

SMF-28® Ultra fibre

ITU-T G.652.D/G.657.A1 rated fibre with improved attenuation and bend performance as well as compatibility with standard single-mode fibres

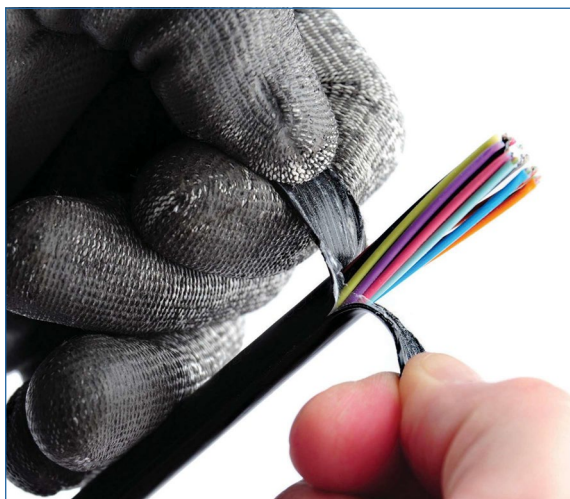
Corning MiniXtend® Cable with Binderless* FastAccess™ Technology is an all-dielectric loose tube cable designed for microduct applications and features industry-leading fibre density.

The innovative Binderless FastAccess Technology improves cable handling and reduces access time up to 70% while lowering risk of cable and fibre damage.

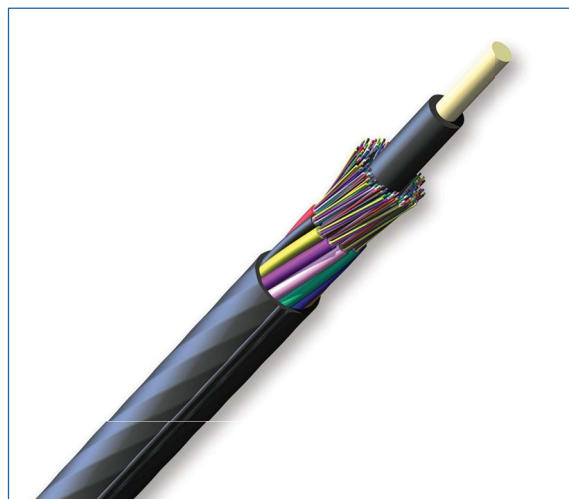
The MiniXtend Cable design reduces the cable diameter by up to 50% (versus traditional loose tube cables) which improves fibre density for duct applications and also enables new applications which can reduce total install cost by up to 60%.

This cable also features Corning SMF-28® Ultra single-mode fibre which combines industry-leading attenuation and improved macrobend performance in one fibre. SMF-28 Ultra fibre is ITU-T Recommendation G.652.D compliant and also exceeds the requirements of the ITU-T Recommendation G.657.A1 standard.

** Corning's patented Binderless FastAccess™ Technology refers to the combination of a Corning FastAccess Technology jacket with an innovative technology used to bind cable construction through the manufacturing process, eliminating the use of binder yarns and water-blocking tapes.*



MiniXtend® Cable with Binderless FastAccess™ Technology | Photo CRR2956



MiniXtend Cable with Binderless FastAccess Technology, 144 Fibres

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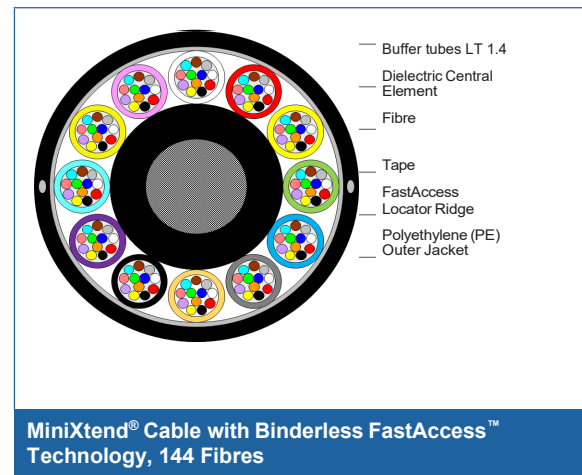
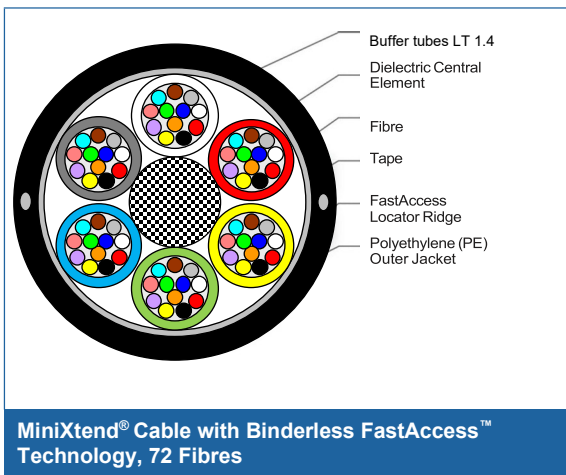
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Standards

Common Installations Outdoor microduct; indoor when installed according to National Electrical Code® (NEC®) Article 770

Design And Test Criteria IEC 60794-5-10



Specifications

Cable design	
Fibre colouring	white, red, yellow, green, blue, grey, brown, black, violet, turquoise, orange, pink
Buffer tube colour coding	white, red, yellow, green, blue, grey, brown, black, violet, turquoise, orange, pink
Buffer tube diameter	1.4 mm
Outer jacket material	High Density Polyethylene (HDPE)
Outer jacket nominal thickness	0.5 mm
Outer jacket colour	black
Cable marking	Metre - Handset - Sine - CORNING - Year - MINIXTEND (R) CABLE WITH BINDERLESS FASTACCESS (TM) TECHNOLOGY A-DQ(ZN)2Y E9U LT 1.4

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Temperature Range

Storage	-40 °C to 70 °C
Installation and assembly	-15 °C to 60 °C
Operation	-40 °C to 70 °C

Mechanical Characteristics Cable

Fibre Count	Fibres per tube	Number of Tube Positions	Number of Active Tubes	Nominal Outer Diameter	Weight	Max. tensile strength, short-term	Min. Bend Radius Installation	Min. Bend Radius Operation
12 - 72	12	6	1 - 6	5.3 mm	23 kg/km	350 N	106 mm	80 mm
96	12	8	8	6.3 mm	36 kg/km	1000 N	126 mm	95 mm
144	12	12	12	8.1 mm	56 kg/km	1000 N	162 mm	122 mm

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Transmission Performance

Single-mode

Fibre name	SMF-28e+®
Fibre core diameter (µm)	8.2
Fibre code	E
Coating diameter (µm)	242
Cladding diameter (µm)	125
Wavelengths (nm)	1310/1383/1550
Maximum attenuation (dB/km)	0.36/0.36/0.22
Typical attenuation (dB/km)	0.34/0.34/0.20
Serial 1 gigabit ethernet (m)	5000/-
Serial 10 gigabit ethernet (m)	10000/40000
Cable cutoff wavelength (nm)	1260
Dispersion at 1550 nm (ps / (nm * km))	≤18
Dispersion @ 1620 nm (ps / (nm * km))	≤22
PMD Link Design Value (PS / √km)	0.06
PMD maximum individual fibre (PS / √km)	≤0.1
Fibre compliance	ITU-T G.652.D

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Fibre name	SMF-28® Ultra 242
Mode-Field Diameter at 1310 nm (µm)	9.2
Fibre code	Z
Coating diameter (µm)	242
Cladding diameter (µm)	125
Wavelengths (nm)	1310/1383/1550
Maximum attenuation (dB/km)	0.34/0.34/0.20
Typical attenuation (dB/km)	0.32/0.32/0.18
Serial 1 gigabit ethernet (m)	5000/-
Serial 10 gigabit ethernet (m)	10000/40000
Cable cutoff wavelength (nm)	1260
Dispersion in the range 1285 to 1330 nm (ps / (nm * km))	≤3.5
Dispersion @ 1550 nm (ps / (nm * km))	≤18
PMD Link Design Value (PS / √km)	≤0.04
PMD maximum individual fibre (PS / √km)	≤0.1
Fibre compliance	ITU-T G.652.D and ITU-T G.657.A1

Ordering Information Elektroskandia

Cable Description	Cable Part Number
A-DQ(ZN)2Y 1X12 E9 LT1.4 FAB	012EM4-xxxxxxAMX
A-DQ(ZN)2Y 2X12 E9 LT1.4 FAB	024EM4-xxxxxxAMX
A-DQ(ZN)2Y 4X12 E9 LT1.4 FAB	048EM4-xxxxxxAMX
A-DQ(ZN)2Y 8X12 E9 LT1.4 FAB	096EM4-xxxxxxAMX
A-DQ(ZN)2Y 12X12 E9 LT1.4 FAB	144EM4-xxxxxxAMX

*Maximum delivery length per drum is 4000 metres +3/-2%

*For ordering information regarding non-standard design cables, please contact our Customer Service Centre. (See bottom of page for contact information.)

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Corning Optical Communications GmbH & Co. KG · Leipziger Strasse 121 · 10117 Berlin, GERMANY

00 800 2676 4641 · FAX: +49 30 5303 2335 · www.corning.com/opcomm/emea

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