MiniXtend® Cable with Binderless* FastAccess™ Technology

144 F, SMF-28® Ultra fibre, Single-mode (G.652.D/G.657.A1)

CORNING

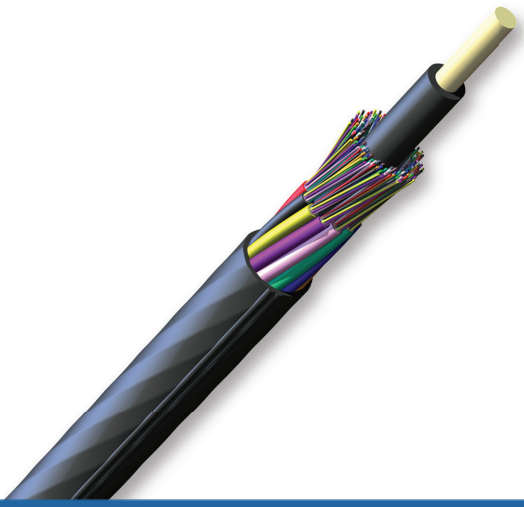
Corning MiniXtend® Cable with Binderless* FastAccess™ Technology is an all-dielectric loose tube cable designed for microduct applications and features industry-leading fibre density.

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

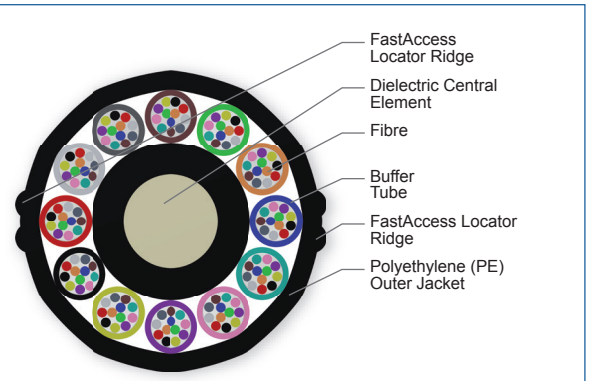
The MiniXtend Cable design reduces the cable diameter by up to 50% (versus traditional loose tube cables) which improves fibre density for duct applications and also enables new applications which can reduce total install cost by up to 60%.

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 waterblocking tapes.*



Part Number: 144ZM4-T3F22AMX



Cross Section of Order Number: 144ZM4-T3F22AMX

Features and Benefits

Binderless* FastAccess™ Technology
Innovative cable design that reduces cable access time up to 70 percent 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 fibers 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

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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

General Specifications	
Environment	Outdoor
Application	Microduct
Cable type	Stranded Loose Tube Micro Cable
Product type	Dielectric
Fibre Category	SMF-28® Ultra 242 Optical Fibre

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

Cable Design	
Central Element	Dielectric
Fibre Count	144
Fibre colouring	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Turquoise
Fibres per tube	12
Number of Tube Positions	12
Number of Active Tubes	12
Buffer tube colour coding	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Turquoise
Buffer tube diameter	1.4 mm (0.05 in)
Number of filling elements	0
Outer jacket material	High Density Polyethylene (HDPE)
Outer jacket colour	Black

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Mechanical Characteristics Cable	
Weight	56 kg/km
Nominal Outer Diameter	8.1 mm
Min. Bend Radius Installation	162 mm
Min. Bend Radius Operation	122 mm
Max. tensile strength, short-term	1000 N

Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU

Fibre Specifications

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

Notes: 1) *Contact a Corning Customer Care Representative for additional information*

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Ordering Information

Part Number	144ZM4-T3F22AMX
Product Description	MiniXtend® Cable with Binderless* FastAccess™ Technology, 144 F, SMF-28® Ultra fiber, Single-mode (G.652.D/G.657.A1)
EAN Code	4056418046679

RoHS COMPLIANT

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