

# MiniXtend® Cable with Binderless\* FastAccess™ Technology

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

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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.*

## 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**

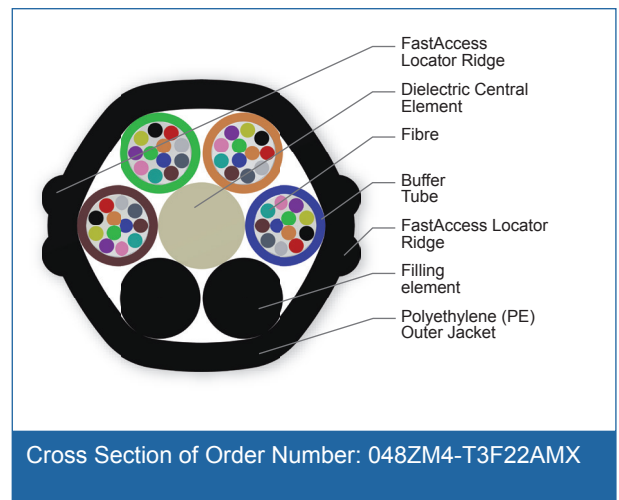
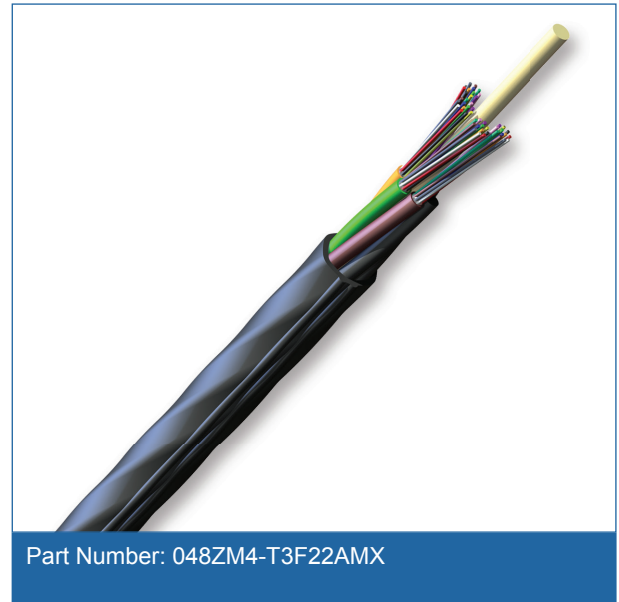
Capable of installation distances greater than 2000 m (6560 ft) at speeds up to 150 m/min (490 ft/min)

### **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<sup>®</sup> (NEC<sup>®</sup>) 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 <sup>®</sup> 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	48
Fibre colouring	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Turquoise
Fibres per tube	12
Number of Tube Positions	6
Number of Active Tubes	4
Buffer tube colour coding	Blue, Orange, Green, Brown
Buffer tube diameter	1.4 mm (0.05 in)
Number of filling elements	2
Outer jacket material	High Density Polyethylene (HDPE)
Outer jacket colour	Black

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## Mechanical Characteristics Cable

Weight	23 kg/km
Nominal Outer Diameter	5.3 mm
Min. Bend Radius Installation	106 mm
Min. Bend Radius Operation	80 mm
Max. tensile strength, short-term	350 N

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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## 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	048ZM4-T3F22AMX
Product Description	MiniXtend® Cable with Binderless* FastAccess™ Technology, 48 F, SMF-28® Ultra fibre, Single-mode (G.652.D/G.657.A1)
EAN Code	4056418049861



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