

# MiniXtend® Cable with Binderless\* FastAccess® Technology

144 F, SMF-28® Ultra fiber, 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 fiber density. The innovative Binderless FastAccess Technology improves cable handling and reduces access time up to 70 percent while lowering risk of cable and fiber damage. The MiniXtend Cable design reduces the cable diameter by up to 50 percent (versus traditional loose tube cables) which improves fiber density for duct applications and also enables new applications which can reduce total install cost by up to 60 percent. This cable also features Corning SMF-28® Ultra single-mode fiber which combines industry-leading attenuation and improved macrobend performance in one fiber. SMF-28 Ultra fiber 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 fiber damage

### Improved cable and fiber density

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

### Optimized for air-assisted install in microducts

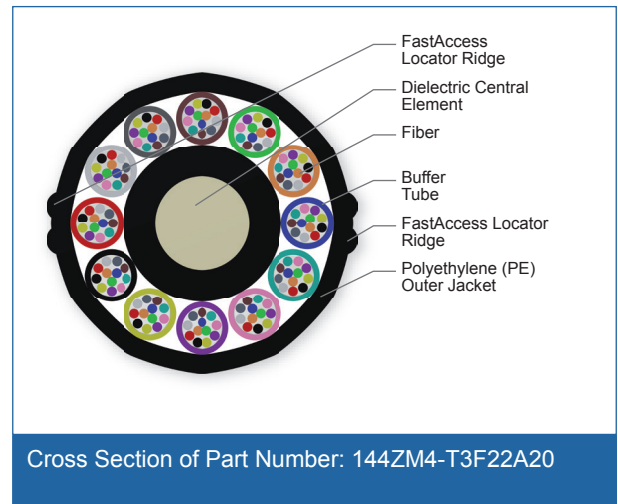
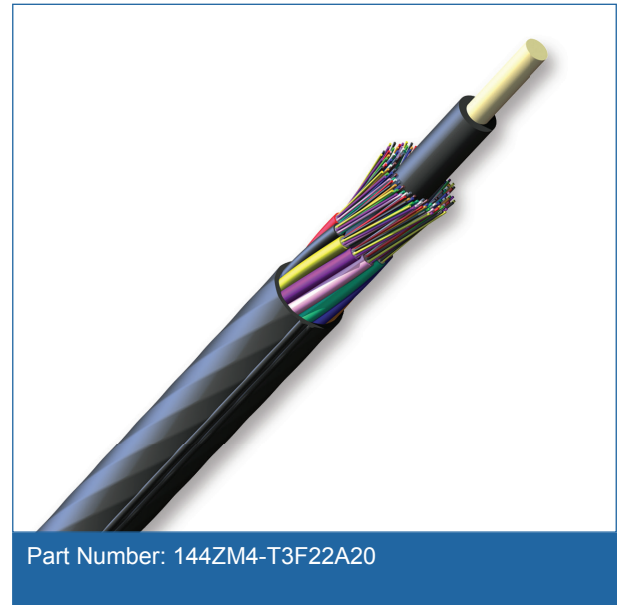
Capable of installation distances greater than 2000 m (6560 ft) at speeds up to 150 m/min (490 ft/min)

### 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 fiber

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



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## Features and Benefits

### Fully waterblocked loose tube, gel-filled design

Meets industry standard waterblocking requirements for outdoor cable

## Standards

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

**Design and Test Criteria** IEC 60794-5-10

**Corning Recommendation** This cable should be placed in microduct for all applications, including aerial.

## Specifications

General Specifications	
Environment	Outdoor
Application	Microduct
Cable Type	Stranded Loose Tube Micro Cable
Product Type	Dielectric
Fiber Category	Bend-insensitive Single-mode (OS2)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-15 °C to 60 °C (5 °F to 140 °F)
Operation	-40 °C to 70 °C (-40 °F to 158 °F)

Cable Design	
Central Element	Dielectric
Fiber Count	144
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12

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## Cable Design

Number of Tube Positions	12
Number of Active Tubes	12
Buffer Tube Color Coding	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Buffer Tube Diameter	1.4 mm (0.05 in)
Outer Jacket Material	High Density Polyethylene (HDPE)
Outer Jacket Color	Black

## Mechanical Characteristics Cable

Weight	56 kg/km (38 lb/1000 ft)
Nominal Outer Diameter	8.1 mm (0.32 in)
Min. Bend Radius Installation	162 mm (6.4 in)
Min. Bend Radius Operation	122 mm (4.8 in)
Max. Tensile Strength, Short-Term	1000 N (225 lbf)

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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## Fiber Specifications

### Optical Characteristics (cabled)

Fiber Name	SMF-28® Ultra fiber
Fiber Category	G.652.D/G.657.A1
Fiber Code	Z
Performance Option Code	22
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.34 dB/km / 0.34 dB/km / 0.22 dB/km
Typical Attenuation	0.32 dB/km / 0.32 dB/km / 0.18 dB/km

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## Ordering Information

Part Number	144ZM4-T3F22A20
Product Description	MiniXtend® Cable with Binderless* FastAccess® Technology, 144 F, SMF-28® Ultra fiber, Single-mode (G.652.D/G.657.A1)
EAN Code	4056418140209



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