

MiniXtend® Cable with Binderless* FastAccess® Technology 48 F, SMF-28® Ultra fiber, Single-mode (G.652.D/G.657.A1)

CORNING

Part Number:
048ZM4-T4F22A20

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

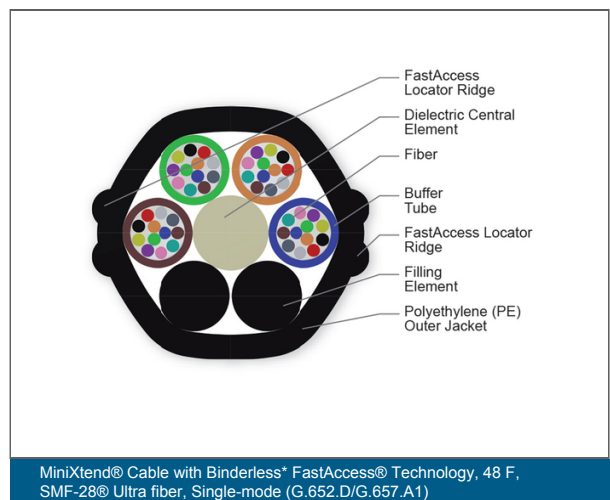
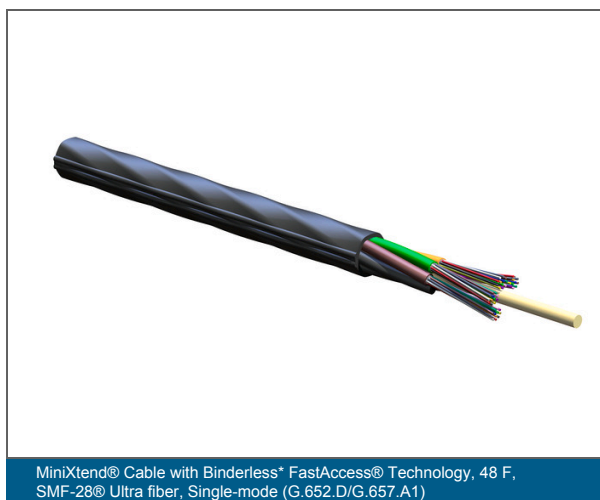
Meets the Telcordia GR-20 and RDUP/RUS PE-90 requirements for mid-span express buffer tube storage

SMF-28® Ultra fiber

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

Fully waterblocked loose tube, gel-filled design

Meets industry standard waterblocking requirements for outdoor cable



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Specifications

General Specifications

Cable Type	Stranded Loose Tube
Environment	Outdoor
Product Type	Dielectric
Fiber Category	SMF-28® Ultra fiber
Application	Miniduct
Fiber Count	48
Cable geometry	Round

Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Common Installations	Outdoor microduct, indoor when installed according to National Electrical Code® (NEC®) Article 770
Design and Test Criteria	IEC 60794-5-10
Corning Recommendations	This cable should be placed in microduct for all applications, including aerial.

Environmental Conditions

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

Cable Design

Central Element	Dielectric
Fiber Count	48
Outer Jacket Color	Black
Outer Jacket Material	Polyethylene (PE)

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Cable Design

Buffer Tube Color	Blue, Orange, Green, Brown
Buffer Tube Diameter	1.4 mm (0.06 in)
Number of Active Tubes	4
Number of Filling Elements	2
Number of Tube Positions	6
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Color Code Standards	Telcordia

Mechanical Specifications

Max. Tensile Strength, Short-Term	890 N (200.08 lbf)
Nominal Outer Diameter	5.4 mm (0.21 in)
Min. Bend Diameter Installation	216 mm (8.5 in)
Min. Bend Diameter Operation	164 mm (6.46 in)
Min. Duct Size Diameter	8 mm (0.31 in)
Optimal Duct Size	10 mm (0.39 in)

Optical Characteristics

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

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Dimensions	
Cable Weight	23 kg/km (15.46 lb/1000 ft)



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