

Microduct Sensing Cable with Binderless* FastAccess® Technology

CORNING

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

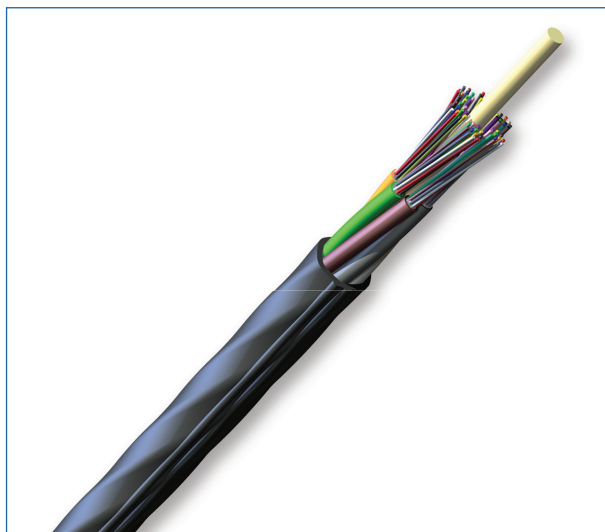
ITU-T G.652.D/G.657.A1 rated fiber with improved attenuation and bend performance as well as compatibility with standard single-mode fibers

Fully waterblocked loose tube, gel-filled design

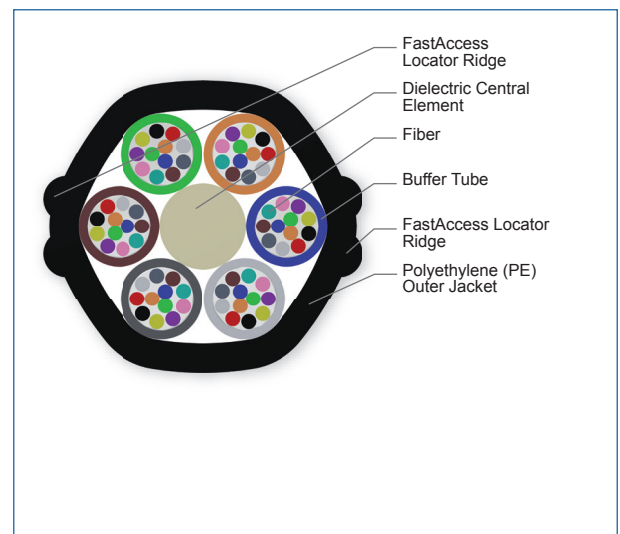
Meets industry standard waterblocking requirements for outdoor cable

Corning Microduct Sensing 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 Microduct Sensing 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.*



Microduct Sensing Cable with Binderless* FastAccess® Technology, 72 Fibers



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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

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

Specifications

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)

* Installation Note: Corning recommends storing cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.

Fiber Count	Fibers 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	5.4 mm (0.21 in)	23 kg/km (15 lb/1000 ft)	890 N (200 lbf)	108 mm (4.3 in)	82 mm (3.2 in)
96	12	8	8	6.3 mm (0.25 in)	36 kg/km (24 lb/1000 ft)	1334 N (300 lbf)	126 mm (5 in)	95 mm (3.7 in)
144	12	12	12	8.1 mm (0.32 in)	56 kg/km (38 lb/1000 ft)	1334 N (300 lbf)	162 mm (6.4 in)	122 mm (4.8 in)

* Note: Actual nominal outer diameter of cable may vary ± 0.3 mm.

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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Transmission Performance

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

Ordering Information | *Note: Contact Customer Care at 1-800-743-2675 for other options.*

	Z	M	4	-	T	4	F	2	2	A	S	N
1	2	3	4		5	6	7	8		9		10
1 Select fiber count. Standard offerings: 012-144 (Increments of 12)	2 Defines fiber code. Z = Single-mode (G.652.D/ G.657.A1) SMF-28® Ultra fiber	3 Defines cable type. M = MiniXtend® cable	4 Defines outer jacket. 4 = Dielectric		5 Defines fiber placement. T = 12 fibers/buffer tube (standard)	6 Select length markings. 4 = Markings in feet (standard)	7 Defines special jacket feature. F = Binderless* FastAccess® Technology	8 Defines performance option code. 22 = Single-mode (OS2) (Max. attenuation 0.34/0.34/0.22 dB/km)		9 Defines cable type. A = Gel-filled buffer tubes		10 Defines special manufacturing code. SN = No special requirements

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Microduct Sensing Cable with Binderless* FastAccess® Technology

The Corning logo consists of a solid blue square with the word "CORNING" in white, uppercase, sans-serif font centered within it.

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Notes

**Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm**

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