

# Microduct Sensing Cable with Binderless\* FastAccess® Technology

CORNING

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.

## 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 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

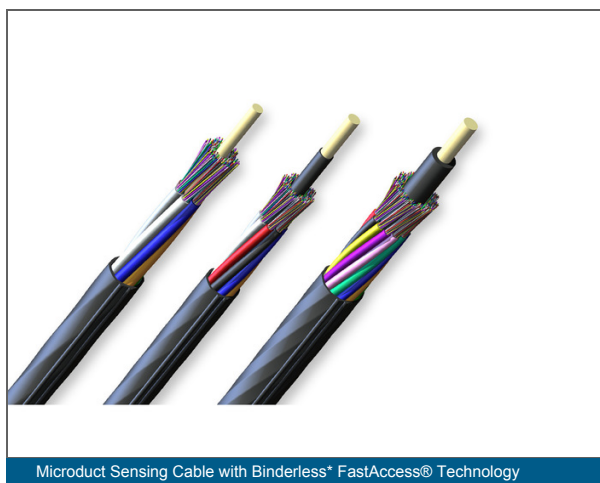
Meets the Telcordia GR-20 and RDUP/RUS PE-90 requirements for mid-span express buffer tube storage

### 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 fibers

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

Meets industry standard waterblocking requirements for outdoor cable



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## Standards

|      |                                                           |
|------|-----------------------------------------------------------|
| RoHS | Free of hazardous substances according to RoHS 2011/65/EU |
|------|-----------------------------------------------------------|

## Specifications

### General Specifications

|              |                     |
|--------------|---------------------|
| Environment  | Outdoor             |
| Product Type | Dielectric          |
| Cable Type   | Stranded Loose Tube |

### Temperature Range

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

### Design Characteristics Cable

| Fiber Count | Fibers per Tube | Number of Tube Positions | Number of Active Tubes | Buffer Tube Diameter |
|-------------|-----------------|--------------------------|------------------------|----------------------|
| 12 - 72     | 12              | 6                        | 1 - 6                  | 1.4 mm (0.06 in)     |
| 96          | 12              | 8                        | 8                      | 1.4 mm (0.06 in)     |
| 144         | 12              | 12                       | 12                     | 1.4 mm (0.06 in)     |

### Mechanical Characteristics Cable

| Fiber Count | Nominal Outer Diameter | Max. Tensile Strength, Short-Term | Min. Bend Diameter Installation | Min. Bend Diameter Operation | Cable Weight                |
|-------------|------------------------|-----------------------------------|---------------------------------|------------------------------|-----------------------------|
| 12 - 72     | 5.4 mm (0.21 in)       | 890 N (200.08 lbf)                | 216 mm (8.5 in)                 | 164 mm (6.46 in)             | 23 kg/km (15.46 lb/1000 ft) |

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| Fiber Count | Nominal Outer Diameter | Max. Tensile Strength, Short-Term | Min. Bend Diameter Installation | Min. Bend Diameter Operation | Cable Weight                   |
|-------------|------------------------|-----------------------------------|---------------------------------|------------------------------|--------------------------------|
| 96          | 6.3 mm (0.25 in)       | 1334 N (299.9 lbf)                | 252 mm (9.92 in)                | 190 mm (7.48 in)             | 36 kg/km<br>(24.19 lb/1000 ft) |
| 144         | 8.1 mm (0.32 in)       | 1334 N (299.9 lbf)                | 324 mm (12.76 in)               | 244 mm (9.61 in)             | 56 kg/km<br>(37.63 lb/1000 ft) |

## Transmission Performance

### Single-mode

|                         |                                      |
|-------------------------|--------------------------------------|
| Fiber Name              | Bend-Improved Single-mode (OS2)      |
| Performance Option Code | 22                                   |
| Fiber Category          | OS2                                  |
| Wavelengths             | 1310 nm / 1383 nm / 1550 nm          |
| Fiber Code              | Z                                    |
| Maximum Attenuation     | 0.34 dB/km / 0.34 dB/km / 0.22 dB/km |

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



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