# MiniXtend® Cable with Binderless* FastAccess™ Technology

## 288 F (24F/Tube), SMF-28® Ultra 200, Single-mode (G.652.D/G.657.A1)

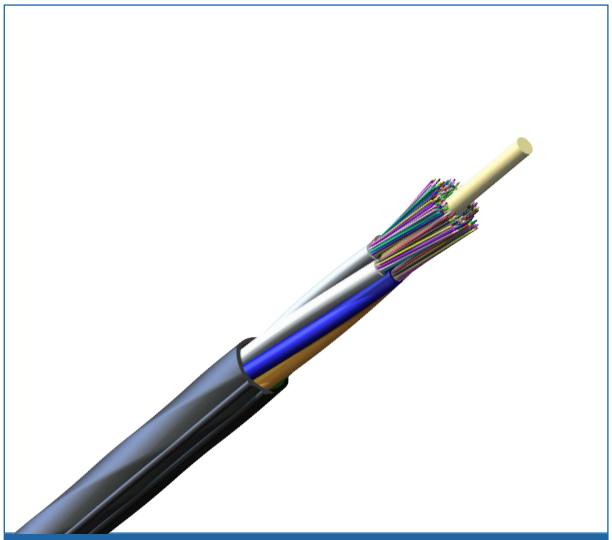
CORNING

Corning MiniXtend® Cable with Binderless* FastAccess™ Technology is an all-dielectric loose tube cable designed for microduct applications and features industry-leading 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.

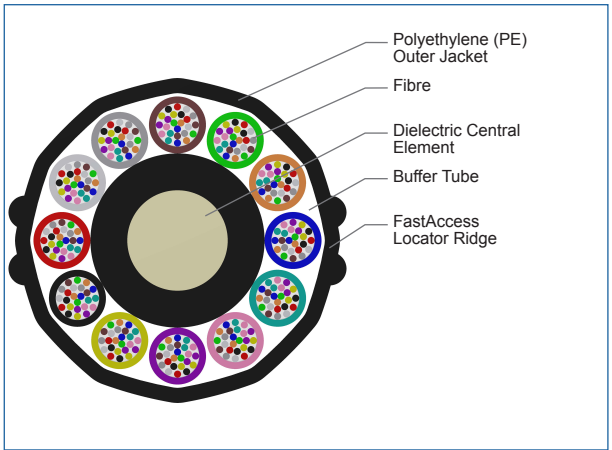
The MiniXtend Cable design reduces the cable diameter by up to 50% (versus traditional loose tube cables) which improves fibre density for duct applications and also enables new applications which can reduce total install cost by up to 60%.

This cable also features Corning SMF -28® Ultra 200 single -mode fibre (ITU -T G.652.D and ITU -T G.657. A1): the industry's first 200 micron fibre with a 9.2 micron Mode -Field Diameter (MFD).



Part Number: 288ZH4-ED236ADE

** 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 water-blocking tapes.*




Cross Section of Order Number: 288ZH4-ED236ADE

## 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 de-ployment cost;

**Optimised for air-assisted install in microducts**
Suitable for installation in a duct with 10mm inner diameter.

**Mid-span express buffer tube performance**
Meets the Telcordia GR-20 and RDUP/RUS PE-90 requi-rements for mid-span express buffer tube storage



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## Features and Benefits

**SMF-28® Ultra 200 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

## Standards

**Common Installations** Outdoor microduct;

**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 |
| Recommended inner diameter of microduct | 10 mm |
| Fibre category | SMF-28® Ultra 200 Optical Fibre |

| Temperature Range | |
|---|---|
| Storage | -30 °C to 60 °C |
| Installation and assembly | -5 °C to 50 °C |
| Operation | -20 °C to 70 °C |

| Cable Design | |
|---|---|
| Central element | Dielectric |
| Fibre count | 288 |
| Fibre bundle colouring | 1-12:Red, Green, Blue, Yellow, White, Grey, Brown, Violet, Turquoise, Black, Orange, Pink<br>13-24(all one black ring):Red, Green, Blue, Yellow, White, Grey, Brown, Violet, Turquoise, Natural, Orange, Pink |

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| Cable Design | |
|---|---|
| Fibres per tube | 24 |
| Number of tube positions | 12 |
| Number of active tubes | 12 |
| Buffer tube colour coding | Red, Green, Blue, Yellow, White, Grey, Brown, Violet, Turquoise, Black, Orange, Pink |
| Buffer tube diameter | 1.4 mm |
| Outer jacket material | High Density Polyethylene (HDPE) |
| Outer jacket colour | Black |
| Outer jacket nominal thickness | 0.45 mm |
| Cable marking | M#H#S#CORNING#Year# MINIXTEND(R) HD FAB CABLE 12x24 E9U200 NGN |

| Mechanical Characteristics Cable | |
|---|---|
| Nominal Outer Diameter | 8.1 mm |
| Weight | 66 kg/km |
| Min. Bend Radius Installation | 162 mm |
| Min. Bend Radius Operation | 122 mm |
| Max. tensile strength, short-term | 1000 N |
| Crush resistance (reversible) | 500 N/10 cm |
| Water penetration (0.1bar/24 h) | ≤ 1 m |

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

## Fibre Specifications

| Optical Characteristics (cabled) | |
|---|---|
| Fibre name | SMF-28® Ultra 200 Optical Fibre |
| Mode-Field Diameter at 1310 nm | 9.2 µm |
| Fibre code | Z |
| Coating diameter | 200 µm |
| Cladding diameter | 125 µm |
| Wavelengths | 1310 nm / 1383 nm / 1550 nm |
| Maximum attenuation | 0.36 dB/km / 0.36 dB/km / 0.22 dB/km |
| Serial 1 gigabit ethernet | 5000 m / - |

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## Fibre Specifications

| Optical Characteristics (cabled) | |
|---|---|
| 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*

## Ordering Information

| | |
|---|---|
| Part Number | 288ZH4-ED236ADE |
| Product Description | MiniXtend® HD Cable with Binderless* FastAccess™ Technology, 288F (24F/Tube), SMF-28® Ultra 200, Single-mode (G.652.D/G.657.A1) |

## Shipping Information

| | |
|---|---|
| Maximum delivery length | 6,000 m |

RoHS COMPLIANT

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