

# MiniXtend® HD Cable with Binderless\* FastAccess® Technology 48 F (4x12), G.657.A1 190

CORNING

**Part Number:**  
**048ZM4-T4E49A20**

Corning® MiniXtend® HD Cables with Binderless\* FastAccess® Technology are high-density micro cables that are up to 60 percent smaller and up to 70 percent lighter than standard loose tube cables and up to 20 percent smaller than standard micro cables.

The innovative Binderless FastAccess Technology improves cable handling and reduces access time up to 70 percent while lowering risk of cable and fiber damage. MiniXtend HD cables have an SZ-stranded loose tube construction and provide high fiber counts in limited duct space in long-haul, metro and access networks.

With a low-friction PE sheath, MiniXtend HD cables are optimized for blowing into microducts. Both the buffer tubes and the fibers contained within are color-coded for quick and easy identification.

MiniXtend HD cables feature Corning® SMF-28® Ultra 200 single-mode fiber (ITU-T G.652.D and ITU-T G.657. A1): the industry's first 200 micron fiber with a 9.2 micron mode-field diameter (MFD).

## 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

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### **Reduced outer cable diameter**

High fiber density in microduct systems

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### **Compact and light**

CapEx-optimized installations and upgrades

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### **Fully dielectric**

No grounding required

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### **Color-coded tubes and fibers**

Easy identification of tubes and fibers

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## Specifications

### General Specifications

|                      |                     |
|----------------------|---------------------|
| Installation Methods | Microduct           |
| Cable Type           | Stranded Loose Tube |
| Environment          | Outdoor             |
| Product Type         | Dielectric          |
| Fiber Category       | G.652.D/G.657.A1    |
| Cable geometry       | Round               |

### Standards

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

### Environmental Conditions

|                                 |                                     |
|---------------------------------|-------------------------------------|
| Temperature Range, Installation | -5 °C to 50 °C (23 °F to 122 °F )   |
| Temperature Range, Operation    | -20 °C to 70 °C (-4 °F to 158 °F )  |
| Temperature Range, Storage      | -30 °C to 70 °C (-22 °F to 158 °F ) |

### Cable Design

|                                   |                                                                                |
|-----------------------------------|--------------------------------------------------------------------------------|
| Cable Marking                     | M#H#S#CORNING#YEAR MINIXTEND®HD FAB CABLE<br>4x12 G.657.A1 190 LT1.1#ID Number |
| Central Element                   | Dielectric                                                                     |
| Fiber Count                       | 48                                                                             |
| Buffer Tube Color Coding, Layer 1 | Blue, Orange, Green, Brown                                                     |
| Outer Jacket Color                | Black                                                                          |
| Outer Jacket Material             | Polyethylene (PE)                                                              |
| Outer Jacket Nominal Thickness    | 0.5 mm                                                                         |
| Buffer Tube Diameter              | 1.13 mm                                                                        |
| Number of Active Tubes            | 4                                                                              |

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## Cable Design

|                          |                                                                                  |
|--------------------------|----------------------------------------------------------------------------------|
| 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

|                                              |             |
|----------------------------------------------|-------------|
| Crush Resistance (reversible), Outdoor Cable | 500 N/10 cm |
| Max. Tensile Strength, Short-Term            | 350 N       |
| Nominal Outer Diameter                       | 4.5 mm      |
| Min. Bend Diameter Installation              | 180 mm      |
| Min. Bend Diameter Operation                 | 136 mm      |
| Min. Duct Size Diameter                      | 6 mm        |
| Optimal Duct Size                            | 8 mm        |

## Dimensions

|                                 |            |
|---------------------------------|------------|
| Cable Weight                    | 16.7 kg/km |
| Max. cable length per reel/drum | 6096 m     |



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