

MiniXtend® HD Cable with Binderless* FastAccess® Technology 12 F (1x12), G.657.A1 190



CORNING

Part Number:
012ZM4-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

Reduced outer cable diameter

High fiber density in microduct systems

Compact and light

CapEx-optimized installations and upgrades

Fully dielectric

No grounding required

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
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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 1x12 G.657.A1 190 LT1.1#ID Number
Central Element	Dielectric
Fiber Count	12
Buffer Tube Color Coding, Layer 1	Blue
Outer Jacket Color	Black
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Nominal Thickness	0.5 mm (0.02 in)
Buffer Tube Diameter	1.13 mm (0.04 in)
Number of Active Tubes	1

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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 (78.68 lbf)
Nominal Outer Diameter	4.5 mm (0.18 in)
Min. Bend Diameter Installation	180 mm (7.09 in)
Min. Bend Diameter Operation	136 mm (5.35 in)
Min. Duct Size Diameter	6 mm (0.24 in)
Optimal Duct Size	8 mm (0.31 in)

Optical Characteristics

Fiber Code	Z
Performance Option Code	49
Fiber Category	OS2
Fiber Type	Single-mode (OS2) / 190 µm
Fiber Name	Contour™ Fiber
Maximum Attenuation	0.36 dB/km / 0.36 dB/km / 0.22 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Compliance	ITU-T G.652.D and ITU-T G.657.A1
Fiber Core Diameter	8.2 µm
Cladding diameter	125 µm
Coating diameter	188 µm
Dispersion @ 1550 nm	≤ 18.6 [ps/(nm*km)]
Dispersion @ 1625 nm	≤ 23.7 [ps/(nm*km)]

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Optical Characteristics

Cable cutoff wavelength	1260 nm
Mode-Field Diameter at 1310 nm	9.2 μm
Mode-Field Diameter at 1550 nm	10.4 μm
PMD Link Design Value	$\leq 0.04 \text{ ps}/\sqrt{\text{km}}$
PMD maximum individual fiber	$\leq 0.1 \text{ ps}/\sqrt{\text{km}}$

Dimensions

Cable Weight	14.7 kg/km (9.88 lb/1000 ft)
Max. cable length per reel/drum	6096 m (19994.88 ft)



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