

MiniXtend® HD Cable with Binderless* FastAccess® Technology 144 F, G.657.A1 200, Single-mode (OS2)

CORNING

Part Number:
144ZH4-Y4F42A20

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

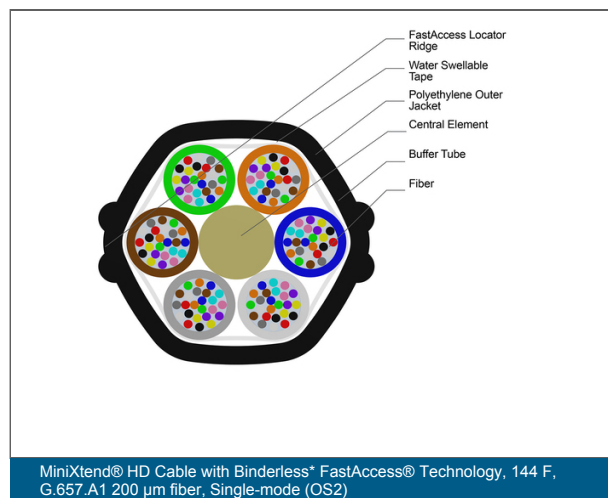
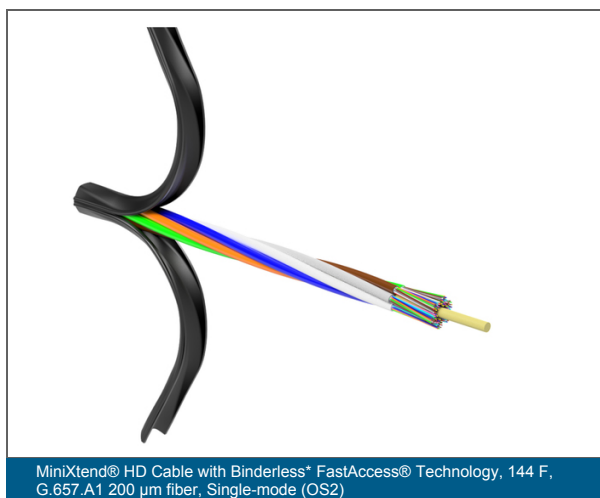
CapEx-optimized installations and upgrades

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	SMF-28® Ultra 200 Optical Fiber
Cable geometry	Round

Standards

Fiber Standards	TIA/EIA-492CAAB, IEC 60793-2-50 Type B1.3, ITU-T G.652.D, ITU-G.657.A1, ISO/IEC 11801 Ed.2.2
RoHS	Free of hazardous substances according to RoHS 2011/65/EU

Environmental Conditions

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

Cable Design

Central Element	Dielectric
Fiber Count	144
Buffer Tube Color Coding, Layer 1	Blue, Orange, Green, Brown, Slate, White
Outer Jacket Color	Black
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Nominal Thickness	0.5 mm (0.02 in)
Buffer Tube Diameter	1.7 mm (0.07 in)
Number of Active Tubes	6

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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	24
Color Code Standards	Telcordia

Mechanical Specifications

Crush Resistance (reversible), Outdoor Cable	1000 N/10 cm
Max. Tensile Strength, Short-Term	1334 N (299.9 lbf)
Nominal Outer Diameter	6.3 mm (0.25 in)
Min. Bend Diameter Installation	252 mm (9.92 in)
Min. Bend Diameter Operation	190 mm (7.48 in)
Min. Duct Size Diameter	8 mm (0.31 in)
Optimal Duct Size	10 mm (0.39 in)

Optical Characteristics

Fiber Code	Z
Performance Option Code	42
Fiber Category	OS2
Fiber Type	Single-mode (OS2) / 200 µm
Fiber Name	Bend-Improved Single-mode (OS2)
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
Cladding diameter	125 µm
Coating diameter	200 µm
Cable cutoff wavelength	1260 nm
Mode-Field Diameter at 1310 nm	9.2 µm

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Dimensions	
Cable Weight	36 kg/km (24.19 lb/1000 ft)



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