

MiniXtend® HD Cable with Binderless* FastAccess® Technology 432 F (36F/Tube), SMF-28® Ultra fiber, Single-mode (G.652.D/ G.657.A1)

CORNING

Part Number:
432ZH4-S4F40A20

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

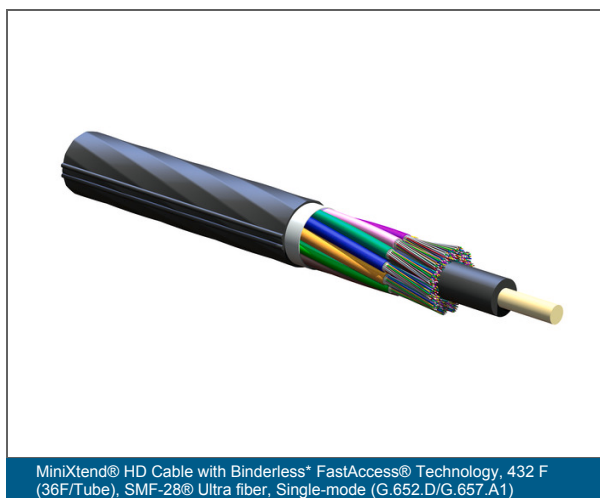
CapEx-optimized installations and upgrades

Fully dielectric

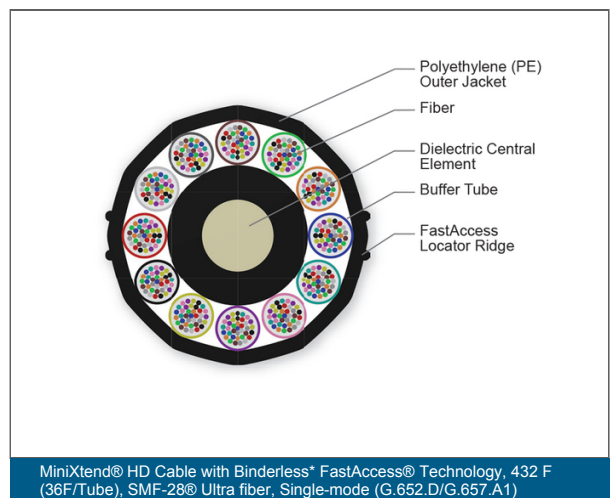
No grounding required

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
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	A-DQ(ZN)2Y
Cable geometry	Round

Standards

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

Cable Marking	FT#CORNING OPTICAL CABLE#MM-YY# 432 (12x36) SM-ULTRA 200 MINIXTEND(R) HD CABLE WITH BINDERLESS FASTACCESS(R) TECHNOLOGY
Central Element	Dielectric
Fiber Count	432
Buffer Tube Color Coding, Layer 1	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Outer Jacket Color	Black
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Nominal Thickness	0.5 mm (0.02 in)

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Cable Design

Buffer Tube Diameter	2 mm (0.08 in)
Number of Active Tubes	12
Number of Tube Positions	12
Fiber Coloring	1-12 blue, orange, green, brown, slate, white, red, black, yellow, violet, rose, aqua - 13-24 (all with one black ring mark) blue, orange, green, brown, slate, white, red, natural, yellow, violet, rose, aqua - 25-36 (all with two black ring marks)
Fibers per Tube	36
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	10.8 mm (0.43 in)
Min. Bend Diameter Installation	440 mm (17.32 in)
Min. Bend Diameter Operation	330 mm (12.99 in)
Min. Duct Size Diameter	14 mm (0.55 in)
Optimal Duct Size	16 mm (0.63 in)

Optical Characteristics

Fiber Code	Z
Performance Option Code	40
Fiber Category	OS2
Fiber Type	Single-mode (OS2) / 200 µm
Fiber Name	Bend-Improved Single-mode (OS2)
Maximum Attenuation	0.34 dB/km / 0.34 dB/km / 0.20 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

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Optical Characteristics

Cable cutoff wavelength	1260 nm
Mode-Field Diameter at 1310 nm	9.2 µm

Dimensions

Cable Weight	110 kg/km (73.92 lb/1000 ft)
Max. cable length per reel/drum	6000 m (19680 ft)



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