

MiniXtend® HD Cable with Binderless* FastAccess® Technology

432 F (36F/Tube), SMF-28® Ultra fiber, Single-mode
(G.652.D/G.657.A1)

CORNING

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).

** 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 waterblocking tapes.*

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

Optimized for air-assisted install in microducts

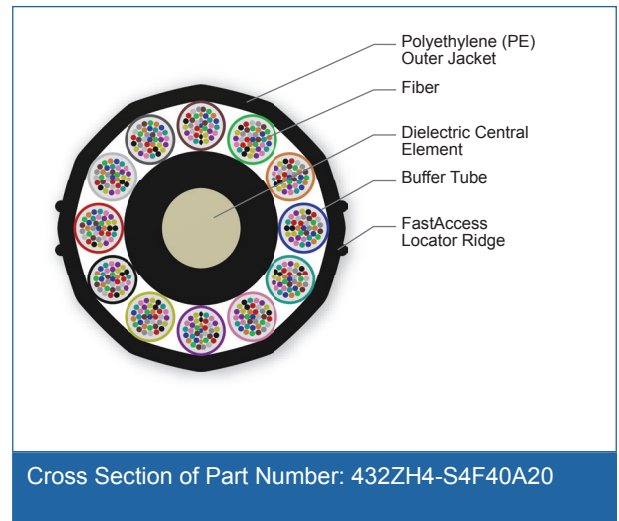
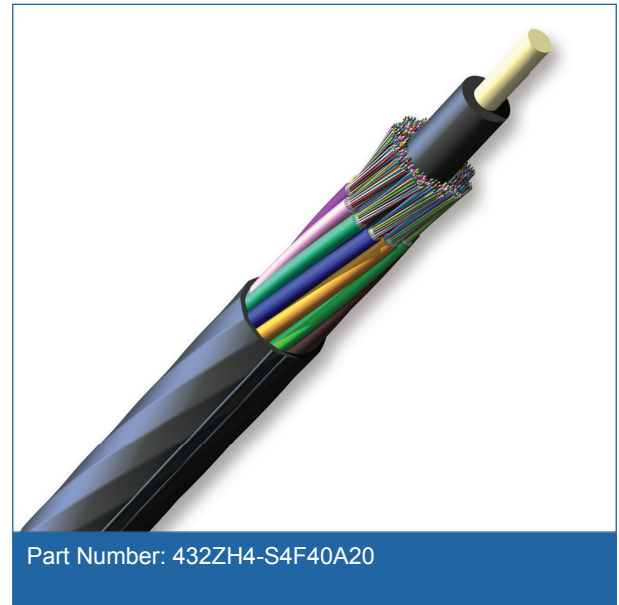
Capable of long installation distances

Fully-dielectric

No grounding required

Color-coded tubes and fibers

Easy identification of tubes and fibers



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Features and Benefits

SMF-28® Ultra 200 fiber

ITU-T G.652.D and G.657.A1-compliant 200 micron single-mode fiber with a 9.2 micron MFD, low loss and enhanced bend performance

Specifications

General Specifications	
Environment	Outdoor
Application	Microduct
Cable Type	Stranded Loose Tube
Product Type	Dielectric
Fiber Category	SMF-28® Ultra 200 Optical Fiber
Classification ITU-T	G.652.D & G.657.A1
Recommended inner diameter of microduct	14 mm

Temperature Range	
Installation	-15 °C to 60 °C (5 °F to 140 °F)
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Operation	-30 °C to 70 °C (-22 °F to 158 °F)

Cable Design	
Central Element	Dielectric
Fiber Count	432
Fiber Bundle Coloring	1-12: blue, orange, green, brown, slate, white, red, black, yellow, violet, rose, aqua; 13-24 (all one black ring): blue, orange, green, brown, slate, white, red, natural, yellow, violet, rose, aqua; 25-36 (all two black rings): blue, orange, green, brown, slate, white, red, natural, yellow, violet, rose, aqua
Fibers per Tube	36
Number of Tube Positions	12
Number of Active Tubes	12
Buffer Tube Color Coding	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Buffer Tube Diameter	1.95 mm (0.08 in)
Outer Jacket Material	Polyethylene (PE)

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Cable Design

Outer Jacket Color	Black
Outer Jacket Nominal Thickness	0.5 mm (0.02 in)
Cable Marking	FT#CORNING OPTICAL CABLE#MM-YY# 432 (12x36) SM-ULTRA 200 MINIXTEND(R) HD CABLE WITH BINDERLESS FASTACCESS(R) TECHNOLOGY

Mechanical Characteristics Cable

Nominal Outer Diameter	10.8 mm (0.43 in)
Weight	110 kg/km (74 lb/1000 ft)
Min. Bend Radius Installation	220 mm (8.7 in)
Min. Bend Radius Operation	165 mm (6.5 in)
Max. Tensile Strength, Short-Term	1334 N (300 lbf)
Water penetration (0.1bar/24 h)	≤ 1 m

Chemical Characteristics

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

Optical Characteristics (cabled)

Fiber Name	SMF-28® Ultra 200 Optical Fiber
Fiber Category	G.652.D/G.657.A1
Fiber Code	Z
Performance Option Code	40
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.34 dB/km / 0.34 dB/km / 0.20 dB/km
Typical Attenuation	0.32 dB/km / 0.32 dB/km / 0.18 dB/km

Notes: 1) Contact a Corning Customer Care Representative for additional information.

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Ordering Information

Part Number	432ZH4-S4F40A20
Product Description	MiniXtend® HD Cable with Binderless* FastAccess™ Technology, 432 F (36F/Tube), SMF-28® Ultra fiber, Single-mode (G.652.D/G.657.A1)

Shipping Information

Maximum Delivery Length	6,000 m
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