

MiniXtend® Cable with Binderless* FastAccess™ Technology

144 F (24F/Tube), SMF-28® Ultra 200, Single-mode (G.652.D/G.657.A1)

CORNING

Corning MiniXtend® Cable with Binderless* FastAccess™ Technology is an all-dielectric loose tube cable designed for microduct applications and features industry-leading fibre density.

The innovative Binderless FastAccess Technology improves cable handling and reduces access time up to 70% while lowering risk of cable and fibre damage.

The MiniXtend Cable design reduces the cable diameter by up to 50% (versus traditional loose tube cables) which improves fibre density for duct applications and also enables new applications which can reduce total install cost by up to 60%.

This cable also features Corning SMF-28® Ultra 200 single-mode fibre (ITU-T G.652.D and ITU-T G.657.A1): the industry's first 200 micron fibre 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 water-blocking 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 fibre damage

Improved cable and fiber density

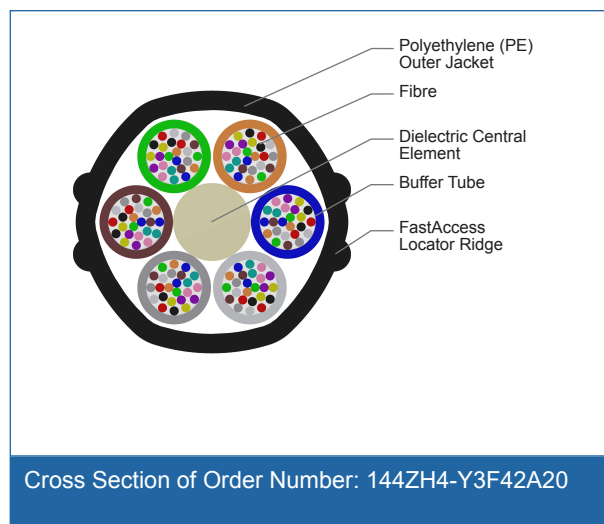
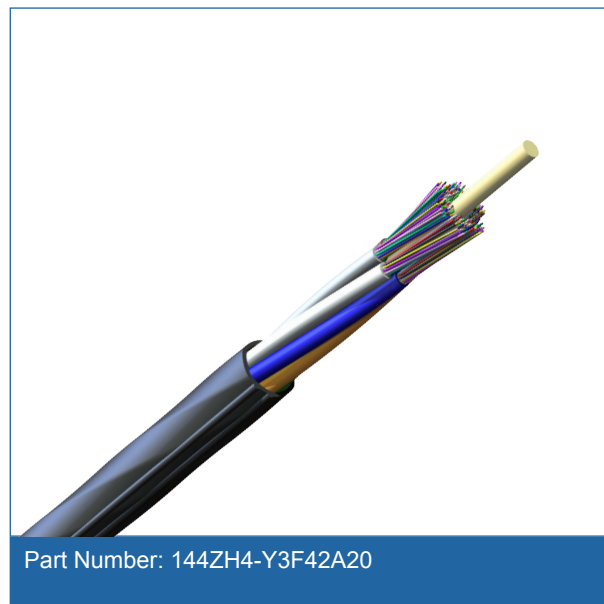
Small cable OD enables higher density and lower deployment cost; up to 144 fibres in 8 mm ID duct

Optimised for air-assisted install in microducts

Capable of installation distances greater than 2000 m at speeds up to 150 m/min

Mid-span express buffer tube performance

Meets the Telcordia GR-20 and RDUP/RUS PE-90 requirements for mid-span express buffer tube storage



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Features and Benefits

SMF-28® Ultra 200 fibre

ITU-T G.652.D/G.657.A1 rated fibre with improved attenuation and bend performance as well as compatibility with standard single-mode fibres

Standards

Common Installations Outdoor microduct;

Design And Test Criteria IEC 60794-5-10

Specifications

General Specifications

Environment	Outdoor
Application	Microduct
Cable type	Stranded Loose Tube Micro Cable
Product type	Dielectric
Recommended inner diameter of microduct	10 mm
Minimum inner diameter of microduct	8 mm
Fibre category	SMF-28® Ultra 200 Optical Fibre

Temperature Range

Storage	-40 °C to 70 °C
Installation and assembly	-15 °C to 50 °C
Operation	-30 °C to 70 °C

Cable Design

Central element	Dielectric
Fibre count	144
Fibre bundle colouring	1-12: blue, orange, green, brown, slate, white, red, black, yellow, violet, rose, turquoise; 13-24(all one black ring): blue, orange, green, brown, slate, white, red, natural, yellow, violet, rose, turquoise;

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Cable Design

Fibres per tube	24
Number of tube positions	6
Number of active tubes	6
Buffer tube colour coding	Blue, Orange, Green, Brown, Grey, White
Buffer tube diameter	1.7 mm
Outer jacket material	High Density Polyethylene (HDPE)
Outer jacket colour	Black
Outer jacket nominal thickness	0.5 mm
Cable marking	M#H#S#CORNING#Year# MINIXTEND(R) HD FAB CABLE 6x24 E9U200

Mechanical Characteristics Cable

Nominal Outer Diameter	6.3 mm
Weight	37 kg/km
Min. Bend Radius Installation	126 mm
Min. Bend Radius Operation	95 mm
Max. tensile strength, short-term	1000 N
Crush resistance (reversible)	1000 N/10 cm
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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Fibre Specifications

Optical Characteristics (cabled)

Fibre name	SMF-28® Ultra 200 Optical Fibre
Mode-Field Diameter at 1310 nm	9.2 µm
Fibre code	Z
Coating diameter	200 µm
Cladding diameter	125 µm
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum attenuation	0.36 dB/km / 0.36 dB/km / 0.22 dB/km
Serial 1 gigabit ethernet	5000 m / -

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Fibre Specifications

Optical Characteristics (cabled)	
Serial 10 gigabit ethernet	10000 m / 40000 m
Cable cutoff wavelength	1260 nm
Dispersion in the range 1285 to 1330 nm	≤ 3.5 ps / (nm * km)
Dispersion @ 1550 nm	≤ 18 ps / (nm * km)
PMD Link Design Value	≤ 0.04 PS / √km
PMD maximum individual fibre	≤ 0.1 PS / √km
Fibre compliance	ITU-T G.652.D and ITU-T G.657.A1

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

Ordering Information

Part Number	144ZH4-Y3F42A20
Product Description	MiniXtend® HD Cable with Binderless* FastAccess™ Technology, 144F (24F/Tube), SMF-28® Ultra 200, Single-mode (G.652.D/G.657.A1)

Shipping Information

Maximum delivery length	6,000 m
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