

# MiniXtend® FR HD Cable, LT, U-DQ(ZN)H

6x24 E9/125 SMF-28® Ultra

CORNING

Corning flame retardant MiniXtend® HD cables are high-density micro cables, that are up to 30 percent smaller and up to 60 percent lighter than standard loose tube cables.

They have an SZ-stranded loose tube construction, are fully dielectric and provide high fibre counts for indoor/outdoor applications when limited duct space is available.

With a dual-layer tube design and a low-friction sheath, MiniXtend FR HD cables are optimised for blowing into microducts.

Flame retardant MiniXtend HD cables are designed with increased resistance against moisture or chemicals and with additional flame retardant features to enable indoor/outdoor deployments along ducts or pipelines. They are designed to resist fires up to given standards.

## Features and Benefits

### Reduced outer cable diameter

High fibre density in microduct systems

### Compact and light

CapEx-optimised installations & upgrades

### Optimised cable stiffness

Long installation lengths

### All-dielectric cable construction

Requires no grounding or bonding

### Fibres/buffer tubes colour coded to Telcordia-Bellcore

Easy identification of the individual tubes and fibres

### SMF-28® Ultra 200 fibre

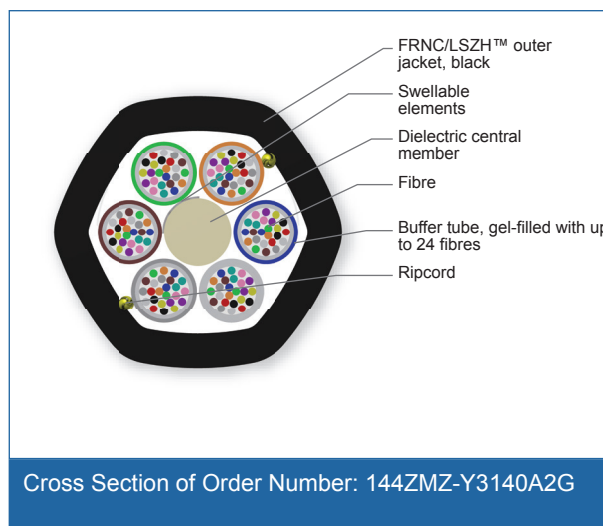
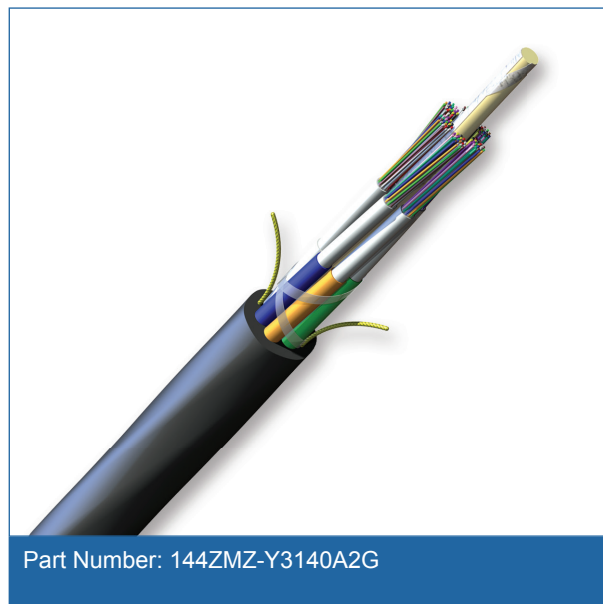
ITU-T G.652.D and G.657.A1-compliant 200 micron single-mode fibre with a 9.2 micron MFD, low loss and enhanced bend performance

### Silicon-free, flame retardant outer jacket material

Free of harmful to paint structures, enables indoor/outdoor usage

### Flame retardant

LSZH™/FRNC



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## Standards

<b>Flame Test Method</b>	Flame retardant to IEC 60332-1-2 (single cable) Reaction to fire according to EN 50575 and EN 13501-6 Low smoke according to IEC 61034
<b>Microducts and protected microducts for installation by blowing</b>	IEC 60794-5-10
<b>Waterblocking</b>	IEC 60794-1-22 Method F5B

## Specifications

General Specifications	
Environment	Indoor/Outdoor Universal Cable
Application	Blowing installation in miniduct systems
Cable type	Loose Tube
Product type	Dielectric
Flame rating	LSZH™/FRNC
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	U-DQ(ZN)H
Reaction to fire	Eca
Fibre Category	SMF-28® Ultra 200 Optical Fibre

Temperature Range	
Installation and assembly	-5 °C to 50 °C
Operation	-40 °C to 70 °C
Storage	-40 °C to 70 °C

Cable Design	
Central element	Dielectric with swellable element
Fibre count	144
Fibre bundle colouring	1-12: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise 13-24 (all with one black ring mark): blue, orange, green, brown, grey, white, red, natural, yellow, violet, pink, turquoise

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## Cable Design

Fibres per tube	24
Number of tube positions	6
Number of active tubes	6
Buffer tube colour	Blue, Orange, Green, Brown, Grey, White
Buffer tube diameter	1.7 mm
Number of ripcords	2
Outer jacket material	Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material
Outer jacket colour	Black
Outer jacket nominal thickness	1.2 mm
Cable marking	Metre - Handset - CE 17 EN 50575 Eca - Sine - CORNING - Fibre Optic Cable - Year - MINIXTEND(R) 6X24 E9U LT 1.7 LSZH(TM)/FRNC

## Mechanical Characteristics Cable

Nominal Outer Diameter	7.8 mm
Weight	67.48 kg/km
Min. Bend Radius Installation	78 mm
Min. Bend Radius Operation	117 mm
Max. tensile strength, short-term	1000 N
Crush resistance (reversible)	1000 N/10 cm
Fire Load	1.357 MJ/m

## Chemical Characteristics

RoHS	RoHS compliant
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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

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## Fibre Specifications

Optical Characteristics (cabled)	
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
Serial 1 gigabit ethernet	5000 m / -
Serial 10 gigabit ethernet	10000 m / 40000 m
Cable cutoff wavelength	1260 nm
Dispersion in the range 1285 to 1330 nm	$\leq 3.5$ ps / (nm * km)
Dispersion @ 1550 nm	$\leq 18$ ps / (nm * km)
PMD Link Design Value	$\leq 0.04$ PS / $\sqrt{\text{km}}$
PMD maximum individual fibre	$\leq 0.1$ PS / $\sqrt{\text{km}}$
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	144ZMZ-Y3140A2G
Product Description	MiniXtend® FR HD Cable, U-DQ(ZN)H, 6x24F, LT, Single-mode (E9/125 SMF-28® Ultra 200), Eca

## Shipping Information

Maximum delivery length	4,000 m
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