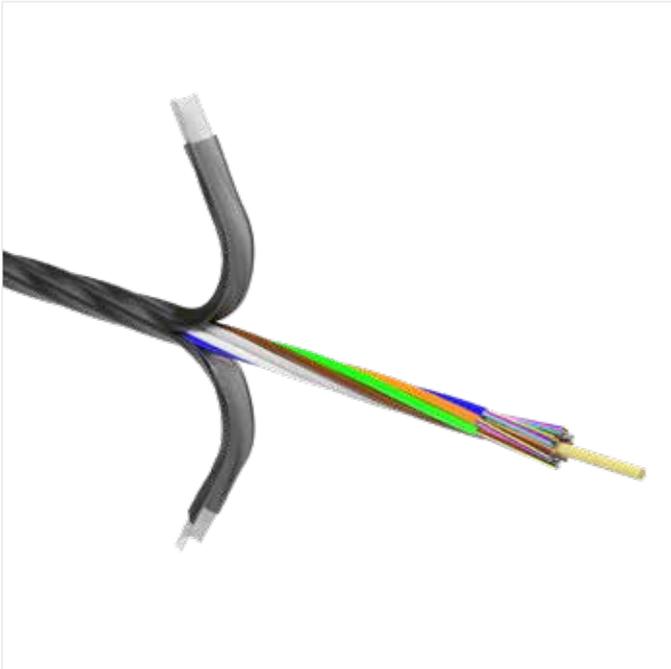


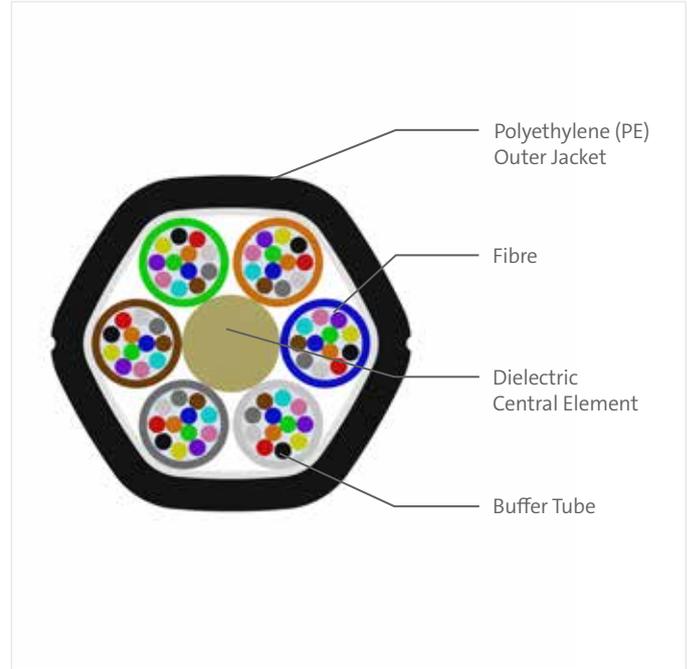
CORNING

MiniXtend® HD Cable with Binderless* FastAccess™ Technology 12 Fibres to 72 Fibres (12 F/T)

G.657.A1.SC 190 fibre



Part Number: 072ZM4-T3E49A20



Cross Section of Part Number: 072ZM4-T3E49A20

Corning MiniXtend® HD 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% (vs. traditional loose tube cables) which improves fibre density for duct applications and also enables new applications which can reduce total installation cost by up to 60%.

This cable features Corning G.657.A1.SC 190 single-mode fibre (ITU-T G.652.D and ITU-T G.657. A1): the industry's first 190 micron fibre with a 9.2 micron mode field diameter (MFD).

**Corning's proprietary 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	Benefits
Binderless* FastAccess™ Technology	Innovative cable design that reduces cable access time up to 70% and lowers the risk of inadvertent fibre damage
Improved cable and fibre density	Small cable OD enables higher density and lower deployment cost
Optimised for air-assisted install in microducts	Suitable for installation in a duct with 6-mm inner diameter
Corning G.657.A1.SC 190 fibre	ITU-T G.652.D and G.657.A1-compliant single-mode fibre with a 9.2 micron MFD, low loss and enhanced bend performance

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
Minimum inner diameter of microduct	6 mm
Recommended inner diameter of microduct	8 mm
Fibre category	G.657.A1 optical fibre with 190-micron outer diameter

Temperature	
Storage	-5°C to 50°C
Installation and assembly	-30°C to 70°C
Operation	-20°C to 70°C

Cable Design

Central element	Dielectric
Fibre count	12 - 72
Fibre bundle colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Fibres per tube	12
Number of tube positions	6
Buffer tube colour coding	Blue, orange, green, brown, grey, white
Buffer tube diameter	1.1 mm
Outer jacket material	High-density polyethylene (HDPE)
Outer jacket colour	Black
Outer jacket nominal thickness	0.4 mm
Cable marking	M#H#S#CORNING#YEAR MINIXTEND® HD FAB CABLE n*x12 G.657.A1 190 LT1.1#ID Number

*Number of tubes

Mechanical Characteristics (cabled)

Nominal outer diameter	4.5 mm
Weight	18 kg/km
Minimum bend radius installation	90 mm
Minimum bend radius operation	68 mm
Maximum tensile strength, short term	350N
Crush resistance (reversible)	500N/10 cm
Water penetration (0.1 bar/24 h)	≤ 1 m

Chemical Characteristics

RoHS*	Free of hazardous substances according to RoHS 2011/65/EU
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*Compliant with EU RoHS 2011/65/EU" means that the product or part complies with directive 2011/65/EU of the European Parliament regarding the restriction of the use of certain hazardous substances in electrical and electronic equipment. This statement represents Corning's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to Corning.

Fibre Specifications

Optical Characteristics (cabled)	
Fibre name	Corning G.657.A1 optical fibre with 190-micron outer diameter
Mode-field diameter at 1310 nm	9.2 µm
Fibre code	Z
Coating diameter	190 µm
Cladding diameter	125 µm
Wavelengths	1310 nm / 1550 nm
Maximum attenuation	0.36 dB/km / 0.22 dB/km
Cable cutoff wavelength	1260 nm
Dispersion @ 1550 nm	≤ 18.0 ps / (nm*km)
Dispersion @ 1625 nm	≤ 22.0 ps / (nm*km)
PMD link design value	0.04 ps/(nm*km)
PMD maximum individual fibre	0.1 ps / (nm*km)
Fibre compliance	ITU-T G.652.D ITU-T G.657.A1

Note: Contact a Corning Customer Care Representative for additional information

Ordering Information

Fibre count	Description	Part Number
12 – 72 F	MiniXtend® HD Cable with Binderless FastAccess® Technology (12-72) Fibre (12 F/T) Number of Tubes x 12 G.657.A E9 G.657.A1.SC 190 fibre, Single-Mode (G652.D, G657.A1)	<div style="border: 1px solid black; padding: 5px; display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="margin-left: 5px;">Z M 4 – T 3 E 4 9 A 2 0</div> </div> <div style="text-align: center; margin-top: 5px;"> <div style="border: 1px solid black; width: 15px; height: 15px; display: inline-block; background-color: black; color: white; line-height: 15px;">1</div> </div> <p>1 Select fibre count.</p> <ul style="list-style-type: none"> 012 = 1x12 fibres 024 = 2x12 fibres 036 = 3x12 fibres 048 = 4x12 fibres 072 = 6x12 fibres



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