

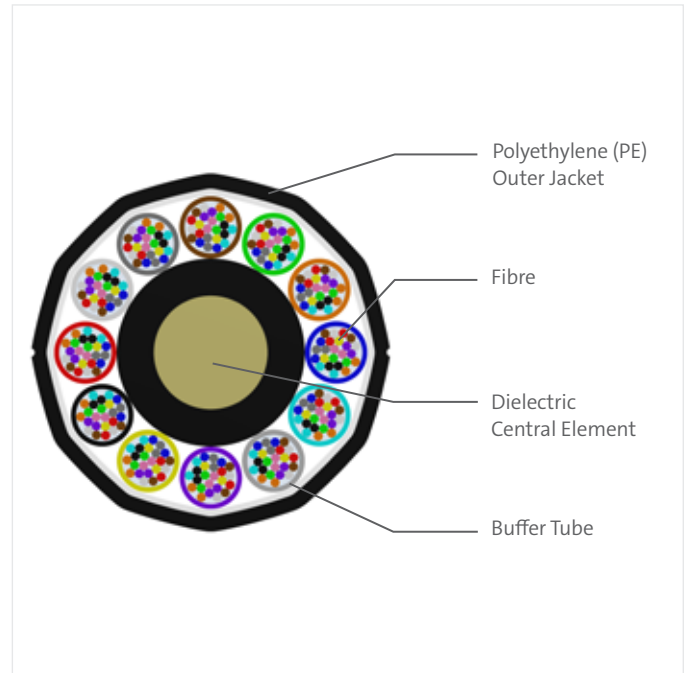
CORNING

MiniXtend® XD Cable with Binderless* FastAccess™ Technology 192 Fibre (24 F/T) and 288 Fibre (24 F/T)

G.657.A1.SC 190 Fibre



Part Number: 288ZH4-Y3C49A20



Cross Section of Part Number: 288ZH4-Y3C49A20

Corning MiniXtend® XD 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 by 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 install cost by up to 60%.

Corning G.657.A1.SC 190 optical fibre is a single-mode fibre with a reduced coating diameter that leverages the latest technology of optical fibre. G.657.A1.SC 190 shares the same advanced optical performance and is designed for use in applications where space is at a premium. G.657.A1.SC 190 enables maximised fibre count per cable and minimise cable outer diameter while maintaining superior optical and mechanical performance. It has bend performance that exceeds recommendation ITU-T G.657.A1, and is compatible and fully compliant with recommendation ITU-T G.652.D.

*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 by 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	The 192 F is suitable for installation in a duct with 8-mm inner diameter, and the 288 F with 10-mm inner diameter.
Corning® G.657.A1.SC 190 optical fibre	The G.657.A1.SC 190 fibre enables smaller cables with higher fibre counts – maximising use of existing infrastructure

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	192 F: 8 mm, 288 F: 10 mm
Recommended inner diameter of microduct	192 F: 10 mm, 288 F: 12 mm
Fibre category	G.657.A1.SC 190 fibre

Temperature	
Storage	-40°C to 70°C
Installation and assembly	-5°C to 50°C
Operation	-20°C to 70°C

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Cable Design

Fibre count	192 F	288 F
Central element	Dielectric	Dielectric
Fibre bundle colouring	Telcordia: 1-12: Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise. 13-24: (all with one black ring) Blue, orange, green, brown, grey, white, red, natural, yellow, violet, pink, turquoise	Telcordia: 1-12: Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise. 13-24: (all with one black ring) Blue, orange, green, brown, grey, white, red, natural, yellow, violet, pink, turquoise
Fibres per tube	24	24
Number of tube positions	8	12
Number of active tubes	8	12
Buffer tube colour coding	Blue, orange, green, brown, grey, white, red, black	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Buffer tube diameter	1.4 mm	1.4 mm
Outer jacket material	High-density polyethylene (HDPE)	High-density polyethylene (HDPE)
Outer jacket colour	Black	Black
Outer jacket nominal thickness	0.45 mm	0.45 mm
Cable marking	M#H#S#CORNING#Year# MINIXTEND* XD FAB CABLE 8x24 G.657.A1 190	M#H#S#CORNING#Year# MINIXTEND* XD FAB CABLE 12x24 G.657.A1 190

Mechanical Characteristics (cabled)

Fibre count	192 F	288 F
Nominal outer diameter	6.2 mm	8.2 mm
Weight	42 kg/km	66 kg/km
Minimum bend radius installation	124 mm	164 mm
Minimum bend radius operation	93 mm	123 mm
Maximum tensile strength, short term	1000 N	1000 N
Crush resistance (reversible)	500 N/10 cm	500 N/10 cm
Water penetration (0.1 bar/24 h)	≤ 1 m	≤ 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.SC 190 fibre
Mode-field diameter at 1310 nm	≤ 9.2 μm
Fibre code	Z
Coating diameter	188 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 ps / (nm*km)
Dispersion @ 1625 nm	≤ 22 ps / (nm*km)
PMD link design value	≤ 0.04 ps / √km
PMD maximum individual fibre	≤ 0.1 ps / √km
Fibre compliance	(G.652.D) (G.657.A1)

Note: Contact a Corning Customer Care Representative for additional information.

Ordering Information

Fibre count	Description	Part Number
192 F	MiniXtend® XD Cable with Binderless FastAccess™ Technology 192 Fibre (24 F/T) G.657.A1.SC 190 fibre, Single-Mode (G.652.D, G.657.A1)	192ZH4-Y3C49A20
288 F	MiniXtend XD Cable with Binderless FastAccess Technology 288 Fibre (24 F/T) G.657.A1.SC 190 fibre, Single-Mode (G.652.D, G.657.A1)	288ZH4-Y3C49A20

Shipping Information

Maximum Delivery Length
6,000 m



Corning Optical Communications GmbH & Co. KG • Leipziger Strasse 121 • 10117 Berlin, GERMANY
+00 800 2676 4641 • FAX: +49 30 5303 2335 • www.corning.com/opcomm/emea

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