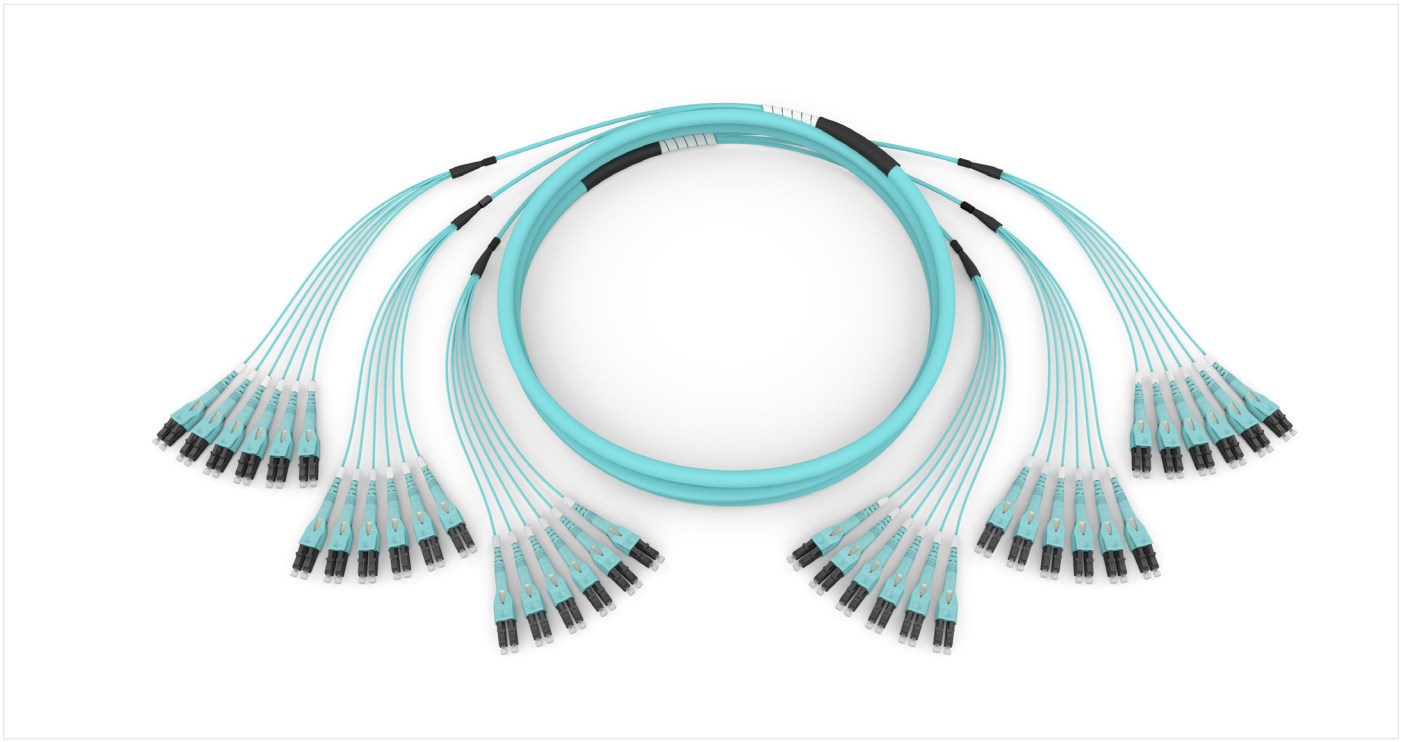
CORNING

Premium Multifibre Cable Assemblies



36-Fibre LC Duplex Uniboot Multimode | Photo REN4474

Corning's pre-terminated multifibre assemblies use high-quality Corning® ClearCurve® multimode fibres to withstand tight bends and challenging cabling routes with substantially less signal loss than conventional multimode fibre. Corning® SMF-28® Ultra single-mode fibres combine industry-leading attenuation and improved macrobend performance.

As the industry's leading supplier of fibre, our state-of-the-art manufacturing process for cable assemblies ensures unsurpassed fibre and connector performance that meets and exceeds industry standards for connector reflectance and insertion loss. Low-loss connectivity enables system design flexibility for your application.

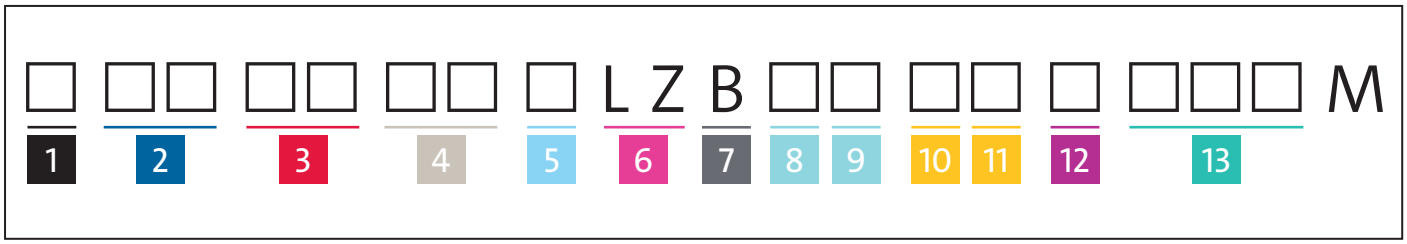
Reverse polarity LC Uniboot connectors allow for a quick-and-easy conversion of polarity in the field without exposing the fibres or needing any tools. The slim, round, two-fibre cable allows it to carry fibres of the Uniboot-style duplex connectors, reducing the cable bulk when routing and providing improved handling in high-density applications.

Mini Duplex Connectors (MDC) offer reverse polarity by simply twisting the trigger, and a flexible push-pull boot allows easy finger access to plug/unplug connectors without the support of a connector clip or tool.

Both, Mini Duplex Connectors and Senko Nano (SN) connectors enable connectivity for high-speed transceivers, such as 400G and 800G and meet the need for increased density as up to three MDC or SN connectors fit into the footprint of an LC duplex port.

Ordering Information

Corning multifibre cable assemblies can be ordered in a few easy steps. The steps involve the selection of pulling grip, connector(s), fibre count, fibre type, leg diameter, leg length, polarity, and total length of product. The steps are listed below.



1 Select grip.
C = No pulling grip
A = Pulling grip on one end (packaged outside reel)
B = Pulling grips on both ends (first packaged outside reel, second packaged inside real)

2 Select connector on first end. (packaged outside reel)
Single-mode:
00 = Pigtail*
02 = LC Simplex UPC
04 = LC Duplex UPC
18 = LC Duplex APC
22 = LC Simplex APC
44 = SC Simplex APC
58 = SC Simplex UPC
66 = SC Duplex APC
72 = SC Duplex UPC
78 = LC Duplex Uniboot UPC
80 = LC Duplex Uniboot APC
MU = MDC UPC Senior
MA = MDC APC Senior
NU = SN UPC
NA = SN APC

Multimode:
00 = Pigtail*
03 = LC Simplex
05 = LC Duplex
39 = SC Simplex
57 = SC Duplex
79 = LC Duplex Uniboot
MM = MDC UPC Senior
NM = SN UPC

3 Select connector on second end. (packaged inside reel)
See selection under 2.

4 Select fibre count.
08 = 8 fibres
12 = 12 fibres
24 = 24 fibres
36 = 36 fibres
48 = 48 fibres
72 = 72 fibres
96 = 96 fibres
E4 = 144 fibres
K2 = 192 fibres
U8 = 288 fibres
AE = 384 fibres (900 µm legs only)
AK = 432 fibres (900 µm legs only)

5 Select fibre type.
T = 50 µm Multimode (OM3)
Q = 50 µm Multimode (OM4)
V = 50 µm Wideband Multimode (OM5)
G = Single-mode Ultra (OS2)

6 Defines cable type.
LZ = LSZH™

7 Defines cable flame rating.
B = EU CPR class B2ca

8 Select leg length on first end.
0 = Pigtail*
J = 300 mm
C = 400 mm
U = 500 mm
K = 600 mm
W = 700 mm
D = 800 mm
I = 900 mm
L = 1,000 mm
M = 1,200 mm
B = 1,500 mm
P = 1,800 mm
Q = 2,000 mm

9 Select leg OD on first end.
0 = Pigtail*
A = 2.0 mm
B = 900 µm
D = 1.6 mm†

10 Select leg length on second end.
See selection under 8.

11 Select leg OD on second end.
See selection under 9.

12 Select polarity.
C = Classic (Type-B)
P = Straight-through (Type-A)

13 Select cable length in m.
003-200 M
Assembly length is measured from furcation point to furcation point. (+1/-0 m)

** Pigtail available on straight polarity only.*
† Only available for MDC, SN or LC Uniboot connector types.

Additional leg lengths and customised staggering for EDGE™ and Centrix™ hardware available upon request.
For OM4 heather violet, please add -VI at the end of the part number or contact Corning Customer Care at 00800 2676 4641 or cc.emea@corning.com.

Specifications

Multimode Connectors

Type	Connector Polish	Code	Insertion Loss, Maximum (dB)	Reflectance, Maximum (dB)	Ferrule	Housing
Pigtail	"-"	00	"-"	"-"	"-"	"-"
LC Types						
LC Simplex	UPC	03	≤ 0.3	≤ -20	Ceramic	Composite
LC Duplex	UPC	05	≤ 0.3	≤ -20	Ceramic	Composite
LC Duplex Uniboot	UPC	79	≤ 0.3	≤ -20	Ceramic	Composite
SC Types						
SC Simplex	UPC	39	≤ 0.3	≤ -20	Ceramic	Composite
SC Duplex	UPC	57	≤ 0.3	≤ -20	Ceramic	Composite
Very Small Form Factor Types						
MDC/UPC Senior	UPC	MM	≤ 0.3	≤ -20	Ceramic	Composite
SN/UPC	UPC	NM	≤ 0.3	≤ -20	Ceramic	Composite

Single-Mode Connectors

Type	Connector Polish	Code	Insertion Loss, Maximum (dB)	Reflectance, Maximum (dB)	Ferrule	Housing
Pigtail	"-"	00	"-"	"-"	"-"	"-"
LC Types						
LC Simplex	UPC	02	≤ 0.25	≤ -55	Ceramic	Composite
LC Simplex	APC	22	≤ 0.25	≤ -65	Ceramic	Composite
LC Duplex	UPC	04	≤ 0.25	≤ -55	Ceramic	Composite
LC Duplex	APC	18	≤ 0.25	≤ -65	Ceramic	Composite
LC Duplex Uniboot	UPC	78	≤ 0.25	≤ -55	Ceramic	Composite
LC Duplex Uniboot	APC	80	≤ 0.25	≤ -65	Ceramic	Composite
SC Types						
SC Simplex	UPC	58	≤ 0.25	≤ -55	Ceramic	Composite
SC Simplex	APC	44	≤ 0.25	≤ -65	Ceramic	Composite
SC Duplex	UPC	72	≤ 0.25	≤ -55	Ceramic	Composite
SC Duplex	APC	66	≤ 0.25	≤ -65	Ceramic	Composite
Very Small Form Factor Types						
MDC/UPC Senior	UPC	MU	≤ 0.25	≤ -55	Ceramic	Composite
MDC/APC Senior	APC	MA	≤ 0.25	≤ -65	Ceramic	Composite
SN/UPC	UPC	NU	≤ 0.25	≤ -55	Ceramic	Composite
SN/APC	APC	NA	≤ 0.25	≤ -65	Ceramic	Composite

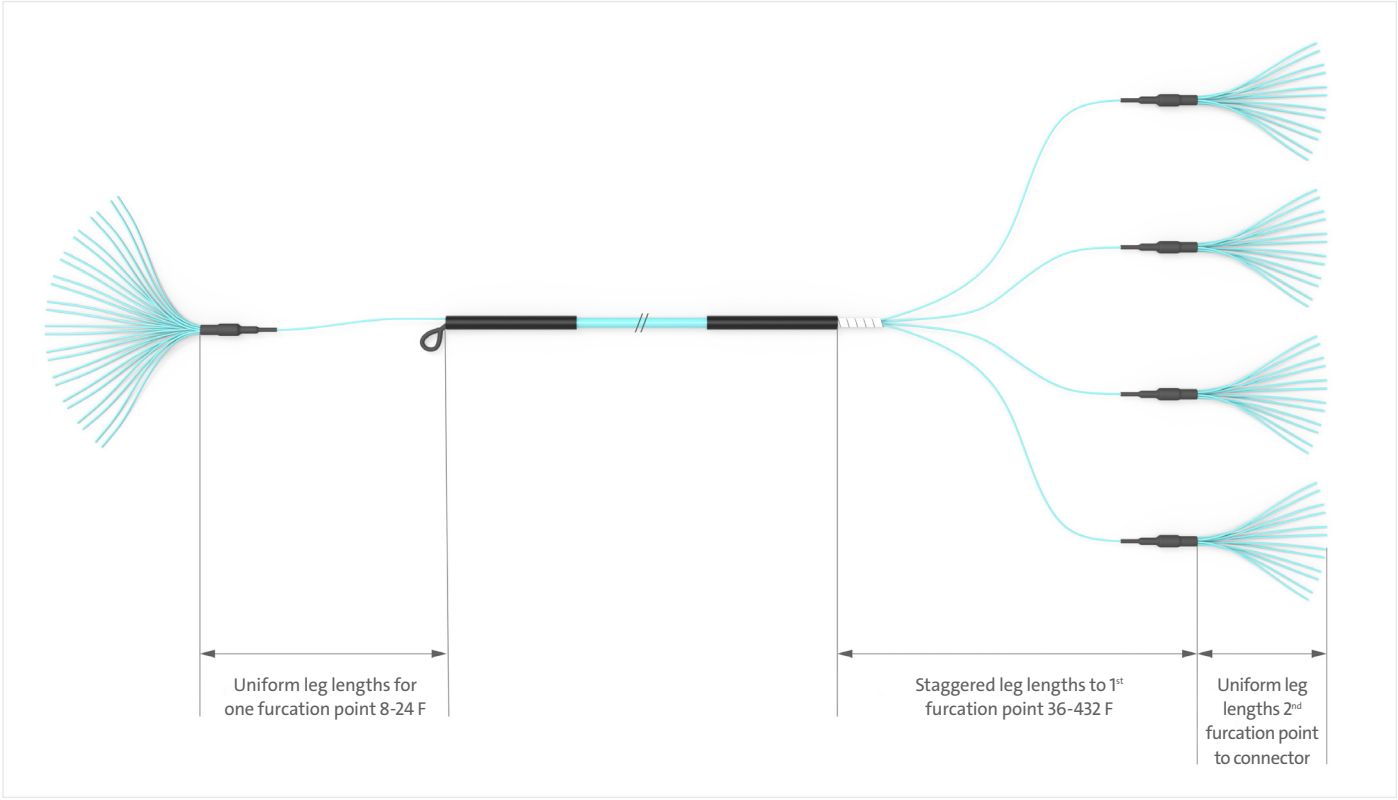
Chemical Characteristics

RoHS*	Free of hazardous substances according to RoHS 2011/65/EU

** "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.*

Standards

Reaction to fire performance of cable according to EN-50575



Leg staggering for 8-24 F and 36-432 F assemblies

Stagger Scheme

Leg Groups	24-36 F (cm)	48-72 F (cm)	96 F (cm)	144 F (cm)	192 F (cm)	288 F (cm)	384 F (cm)	432 F (cm)
1-3	22	32	42	52	72	92	122	132
4-6	-	22	32	42	62	82	112	122
7-9	-	-	22	32	52	72	102	112
10-12	-	-	-	22	42	62	92	102
13-15	-	-	-	-	32	52	82	92
16-18	-	-	-	-	22	42	72	82
19-21	-	-	-	-	-	32	62	72
22-24	-	-	-	-	-	22	52	62
25-27	-	-	-	-	-	-	42	52
28-30	-	-	-	-	-	-	32	42
31-33	-	-	-	-	-	-	22	32
34-36	-	-	-	-	-	-	-	22

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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