

ALTOS® Figure-8 Loose Tube, Gel-Free Cable

CORNING

Corning ALTOS® figure-8 gel-free cables are self-supporting aerial cables designed for easy and economical one-step installation. The loose tube design provides stable performance over a wide temperature range and is compatible with any telecommunications-grade optical fiber. The gel-free design is fully waterblocked using craft-friendly water-swellaable materials, making cable access simple and requiring no clean up. While the flexible, craft-friendly buffer tubes are easy to route in closures, the SZ-stranded, loose tube design isolates optical fibers from installation and environmental rigors and facilitates mid-span access. The figure-8 cable design allows easy, one-step installation, using standard hardware and installation methods. These cables have a medium density polyethylene jacket that is rugged, durable and easy to strip.

Features and Benefits

Gel-free waterblocking technology

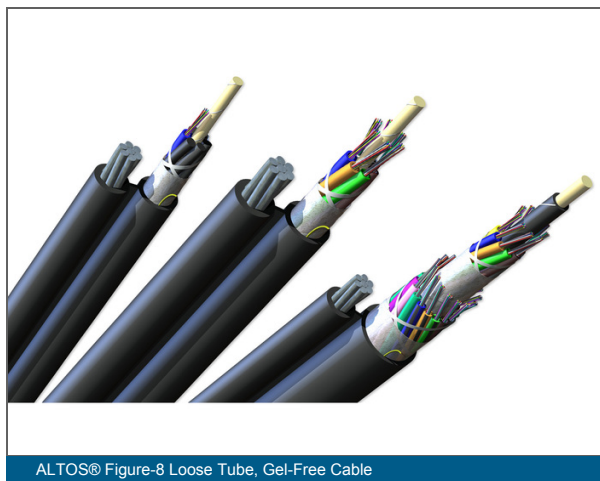
Craft-friendly cable preparation

Polyethylene jacket

Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)

Figure-8 cable design

Easy, one-step installation



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Standards

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

General Specifications

Environment	Outdoor
Product Type	Self-Supporting, Figure-8
Cable Type	Loose Tube

Temperature Range

Temperature Range, Storage	-40 °C - 70 °C (-40 °F - 158 °F)
Temperature Range, Installation	-30 °C - 70 °C (-22 °F - 158 °F)
Temperature Range, Operation	-40 °C - 70 °C (-40 °F - 158 °F)
Notes	Corning recommends storing cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.

Design Characteristics Cable

Fiber Count	Fibers per Tube	Number of Tube Positions	Number of Active Tubes	Buffer Tube Diameter
12 - 72	12	6	1 - 6	2.5 mm (0.1 in)
96	12	8	8	2.5 mm (0.1 in)
144	12	12	12	2.5 mm (0.1 in)
192 - 216	12	18	16 - 18	2.5 mm (0.1 in)
288	12	24	24	2.5 mm (0.1 in)

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Mechanical Characteristics Cable				
Fiber Count	Nominal Outer Diameter	Min. Bend Diameter Installation	Min. Bend Diameter Operation	Cable Weight
12	10.5 mm (0.41 in)	316 mm (12.44 in)	210 mm (8.27 in)	297 kg/km (199.57 lb/1000 ft)
12	14.3 mm (0.56 in)	430 mm (16.93 in)	286 mm (11.26 in)	396 kg/km (266.1 lb/1000 ft)
12	10.5 mm (0.41 in)	316 mm (12.44 in)	210 mm (8.27 in)	297 kg/km (199.57 lb/1000 ft)
12	14.3 mm (0.56 in)	430 mm (16.93 in)	286 mm (11.26 in)	396 kg/km (266.1 lb/1000 ft)
12	10.5 mm (0.41 in)	316 mm (12.44 in)	210 mm (8.27 in)	297 kg/km (199.57 lb/1000 ft)
12	14.3 mm (0.56 in)	430 mm (16.93 in)	286 mm (11.26 in)	396 kg/km (266.1 lb/1000 ft)
24	10.5 mm (0.41 in)	316 mm (12.44 in)	210 mm (8.27 in)	297 kg/km (199.57 lb/1000 ft)
24	14.3 mm (0.56 in)	430 mm (16.93 in)	286 mm (11.26 in)	396 kg/km (266.1 lb/1000 ft)
24	10.5 mm (0.41 in)	316 mm (12.44 in)	210 mm (8.27 in)	297 kg/km (199.57 lb/1000 ft)
24	14.3 mm (0.56 in)	430 mm (16.93 in)	286 mm (11.26 in)	396 kg/km (266.1 lb/1000 ft)
24	10.5 mm (0.41 in)	316 mm (12.44 in)	210 mm (8.27 in)	297 kg/km (199.57 lb/1000 ft)
24	14.3 mm (0.56 in)	430 mm (16.93 in)	286 mm (11.26 in)	396 kg/km (266.1 lb/1000 ft)
36	10.5 mm (0.41 in)	316 mm (12.44 in)	210 mm (8.27 in)	297 kg/km (199.57 lb/1000 ft)
36	14.3 mm (0.56 in)	430 mm (16.93 in)	286 mm (11.26 in)	396 kg/km (266.1 lb/1000 ft)
36	10.5 mm (0.41 in)	316 mm (12.44 in)	210 mm (8.27 in)	297 kg/km (199.57 lb/1000 ft)
36	14.3 mm (0.56 in)	430 mm (16.93 in)	286 mm (11.26 in)	396 kg/km (266.1 lb/1000 ft)
36	10.5 mm (0.41 in)	316 mm (12.44 in)	210 mm (8.27 in)	297 kg/km (199.57 lb/1000 ft)
36	14.3 mm (0.56 in)	430 mm (16.93 in)	286 mm (11.26 in)	396 kg/km (266.1 lb/1000 ft)

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Mechanical Characteristics Cable				
Fiber Count	Nominal Outer Diameter	Min. Bend Diameter Installation	Min. Bend Diameter Operation	Cable Weight
48	10.5 mm (0.41 in)	316 mm (12.44 in)	210 mm (8.27 in)	297 kg/km (199.57 lb/1000 ft)
48	14.3 mm (0.56 in)	430 mm (16.93 in)	286 mm (11.26 in)	396 kg/km (266.1 lb/1000 ft)
48	10.5 mm (0.41 in)	316 mm (12.44 in)	210 mm (8.27 in)	297 kg/km (199.57 lb/1000 ft)
48	14.3 mm (0.56 in)	430 mm (16.93 in)	286 mm (11.26 in)	396 kg/km (266.1 lb/1000 ft)
48	10.5 mm (0.41 in)	316 mm (12.44 in)	210 mm (8.27 in)	297 kg/km (199.57 lb/1000 ft)
48	14.3 mm (0.56 in)	430 mm (16.93 in)	286 mm (11.26 in)	396 kg/km (266.1 lb/1000 ft)
60	10.5 mm (0.41 in)	316 mm (12.44 in)	210 mm (8.27 in)	297 kg/km (199.57 lb/1000 ft)
60	14.3 mm (0.56 in)	430 mm (16.93 in)	286 mm (11.26 in)	396 kg/km (266.1 lb/1000 ft)
60	10.5 mm (0.41 in)	316 mm (12.44 in)	210 mm (8.27 in)	297 kg/km (199.57 lb/1000 ft)
60	14.3 mm (0.56 in)	430 mm (16.93 in)	286 mm (11.26 in)	396 kg/km (266.1 lb/1000 ft)
60	10.5 mm (0.41 in)	316 mm (12.44 in)	210 mm (8.27 in)	297 kg/km (199.57 lb/1000 ft)
60	14.3 mm (0.56 in)	430 mm (16.93 in)	286 mm (11.26 in)	396 kg/km (266.1 lb/1000 ft)
72	10.5 mm (0.41 in)	316 mm (12.44 in)	210 mm (8.27 in)	297 kg/km (199.57 lb/1000 ft)
72	14.3 mm (0.56 in)	430 mm (16.93 in)	286 mm (11.26 in)	396 kg/km (266.1 lb/1000 ft)
72	10.5 mm (0.41 in)	316 mm (12.44 in)	210 mm (8.27 in)	297 kg/km (199.57 lb/1000 ft)
72	14.3 mm (0.56 in)	430 mm (16.93 in)	286 mm (11.26 in)	396 kg/km (266.1 lb/1000 ft)
72	10.5 mm (0.41 in)	316 mm (12.44 in)	210 mm (8.27 in)	297 kg/km (199.57 lb/1000 ft)
72	14.3 mm (0.56 in)	430 mm (16.93 in)	286 mm (11.26 in)	396 kg/km (266.1 lb/1000 ft)

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Mechanical Characteristics Cable				
Fiber Count	Nominal Outer Diameter	Min. Bend Diameter Installation	Min. Bend Diameter Operation	Cable Weight
96	12.2 mm (0.48 in)	366 mm (14.41 in)	244 mm (9.61 in)	321 kg/km (215.7 lb/1000 ft)
96	16 mm (0.63 in)	480 mm (18.9 in)	320 mm (12.6 in)	432 kg/km (290.29 lb/1000 ft)
96	12.2 mm (0.48 in)	366 mm (14.41 in)	244 mm (9.61 in)	321 kg/km (215.7 lb/1000 ft)
96	16 mm (0.63 in)	480 mm (18.9 in)	320 mm (12.6 in)	432 kg/km (290.29 lb/1000 ft)
96	12.2 mm (0.48 in)	366 mm (14.41 in)	244 mm (9.61 in)	321 kg/km (215.7 lb/1000 ft)
96	16 mm (0.63 in)	480 mm (18.9 in)	320 mm (12.6 in)	432 kg/km (290.29 lb/1000 ft)
144	15.8 mm (0.62 in)	474 mm (18.66 in)	316 mm (12.44 in)	386 kg/km (259.38 lb/1000 ft)
144	19.7 mm (0.78 in)	592 mm (23.31 in)	394 mm (15.51 in)	527 kg/km (354.13 lb/1000 ft)
144	15.8 mm (0.62 in)	474 mm (18.66 in)	316 mm (12.44 in)	386 kg/km (259.38 lb/1000 ft)
144	19.7 mm (0.78 in)	592 mm (23.31 in)	394 mm (15.51 in)	527 kg/km (354.13 lb/1000 ft)
144	15.8 mm (0.62 in)	474 mm (18.66 in)	316 mm (12.44 in)	386 kg/km (259.38 lb/1000 ft)
144	19.7 mm (0.78 in)	592 mm (23.31 in)	394 mm (15.51 in)	527 kg/km (354.13 lb/1000 ft)
192	16 mm (0.63 in)	480 mm (18.9 in)	320 mm (12.6 in)	371 kg/km (249.3 lb/1000 ft)
192	19.9 mm (0.78 in)	598 mm (23.54 in)	398 mm (15.67 in)	513 kg/km (344.72 lb/1000 ft)
192	16 mm (0.63 in)	480 mm (18.9 in)	320 mm (12.6 in)	371 kg/km (249.3 lb/1000 ft)
192	19.9 mm (0.78 in)	598 mm (23.54 in)	398 mm (15.67 in)	513 kg/km (344.72 lb/1000 ft)
192	16 mm (0.63 in)	480 mm (18.9 in)	320 mm (12.6 in)	371 kg/km (249.3 lb/1000 ft)
192	19.9 mm (0.78 in)	598 mm (23.54 in)	398 mm (15.67 in)	513 kg/km (344.72 lb/1000 ft)

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Mechanical Characteristics Cable				
Fiber Count	Nominal Outer Diameter	Min. Bend Diameter Installation	Min. Bend Diameter Operation	Cable Weight
216	16 mm (0.63 in)	480 mm (18.9 in)	320 mm (12.6 in)	371 kg/km (249.3 lb/1000 ft)
216	19.9 mm (0.78 in)	598 mm (23.54 in)	398 mm (15.67 in)	513 kg/km (344.72 lb/1000 ft)
216	16 mm (0.63 in)	480 mm (18.9 in)	320 mm (12.6 in)	371 kg/km (249.3 lb/1000 ft)
216	19.9 mm (0.78 in)	598 mm (23.54 in)	398 mm (15.67 in)	513 kg/km (344.72 lb/1000 ft)
216	16 mm (0.63 in)	480 mm (18.9 in)	320 mm (12.6 in)	371 kg/km (249.3 lb/1000 ft)
216	19.9 mm (0.78 in)	598 mm (23.54 in)	398 mm (15.67 in)	513 kg/km (344.72 lb/1000 ft)
288	18.2 mm (0.72 in)	546 mm (21.5 in)	364 mm (14.33 in)	420 kg/km (282.23 lb/1000 ft)

Transmission Performance

Multimode		
Fiber Category	OM1	OM2
Fiber Code	K	T
Performance Option Code	30	31
Fiber Core Diameter	62.5 µm	50 µm
Wavelengths	850 nm / 1300 nm	850 nm / 1300 nm
Maximum Attenuation	3.4 dB/km / 1.0 dB/km	3.0 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	300 m / 550 m	750 m / 600 m
Serial 10 Gigabit Ethernet	33 m / -	150 m / -
Min. Overfilled Launch (OFL) Bandwidth	200 MHz*km / 500 MHz*km	700 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	220 MHz*km / -	950 MHz*km / -

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Transmission Performance

Single-mode

Fiber Name	Single-mode (OS2)
Performance Option Code	01
Fiber Category	OS2
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Code	E
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km

U

-

1

D
2
0

1
2
3
4
5
6
7
8
9
10

1 Select fiber count.

Standard offerings:

012 048 096 216
024 060 144 288
036 072 192

**288-fibers only available in non-armored*

2 Select fiber code.

K = 62.5 µm multimode (OM1)
T = 50 µm multimode (OM2/OM3/OM4)
E = Single-mode (G.652.D)
L = Single-mode (G.652.D) SMF-28e+® LL
Z = Single-mode (G.652.D/ G.657.A1) SMF-28® Ultra
P = Single-mode (G.652) SMF-28® ULL
F = Single-mode (G.655) LEAF®

3 Defines cable type.

U = ALTOS® Loose Tube Cable with 2.5 mm buffer tubes

4 Select outer jacket.

A = Non-armored, Figure-8
B = Armored, Figure-8

5 Select fiber placement.

T = 12 fibers/buffer tube (standard)
6 = 6 fibers/buffer tube
See Note 1.

6 Select length markings.

3 = Markings in meters
4 = Markings in feet (standard)

7 Defines tensile strength.

1 = See specifications

8 Select performance option code.

30 = 62.5 µm multimode (OM1)
31 = 50 µm multimode (OM2)
80 = 50 µm multimode (OM3)
90 = 50 µm multimode (OM4)
01 = Single-mode (OS2) (Max. attenuation 0.4/0.4/0.3 dB/km)
00 = Single-mode (OS2) (Max. attenuation 0.35/0.35/0.25 dB/km)
22 = Single-mode (OS2) (Max. attenuation 0.34/0.34/0.22 dB/km)
19 = Single-mode (Ultra Low-Loss) (Max. attenuation 0.33/-/0.19 dB/km)
01 = Single-mode NZDSF* (Max. attenuation -/-/0.25 dB/km)

**Non-Zero Dispersion-Shifted Single-mode Fiber*

9 Defines cable type.

D = Gel-Free Cable

10 Defines special requirements.

20 = No special requirements

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The Corning logo consists of a solid blue square. Inside the square, the word "CORNING" is written in a white, serif, all-caps font, centered horizontally and vertically.

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