

Reel in a Box, ActiFi™ Composite Cable, Tight-Buffered, Indoor, Plenum

CORNING

Features and Benefits

Stackable, lightweight and small-form boxes

More manageable storage, transport and organization

Countdown jacket print

Indicates available cable remaining on the reel for easier inventory management

Lower operating expense

Cable cutting lowers operating expenses for our distributors and end users

Increase efficiency

Reduces time spent on reel management

No additional equipment

Reel supports and cable spooling equipment not needed

Brake mechanism

Allows reel locking and control of tension during cable pulls

Mutual capacitance

<50 pF/ft between adjacent conductors

Conductor color code

Follows NAFTA Telcordia color code

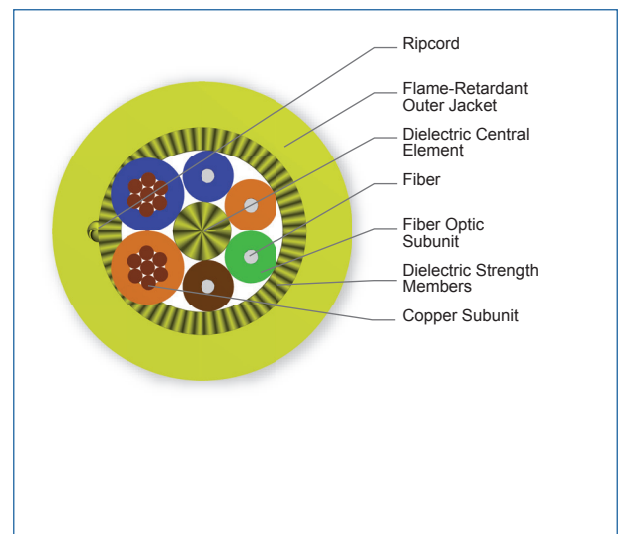
Reel in a Box is Corning's innovative packaging solution for small reels of fiber optic cable in all inside plant applications, such as collocation data centers and wireless projects. This packaging solution provides features that enable our customers greater efficiencies than before.

Corning's ActiFi™ Composite Cables provide the ultimate solution for indoor remote powering of distributed antenna systems, optical networks, small cells and more. The design uses fiber and linear laid copper conductors rated at 300 VAC. These cables are suitable for use with Digital Electricity™ and +/-190VDC installations in accordance with NEC Article 830.15. They may also be used with low-voltage installations in accordance with NEC Article 725.

ActiFi™ Composite Cables also provide a time-and cost saving solution for installations requiring remotely powered equipment. By integrating linear laid copper and loose tube fiber in one cable, ActiFi cables eliminate the need to install separate power and fiber cables. This saves installation time, labor costs and duct or tray space. This compact and versatile design is available with an interlocking armor option for additional protection where conduit may not be feasible.



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ActiFi™ Composite Cable, Tight-Buffered, Indoor, Plenum, 4-Fibers

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Standards

Approvals and Listings NEC Article 725 Class 3 (CL3P) CSA Certified listed to UL 444, CSA C22.2, No. 214

Design and Test Criteria ICEA S-120-742, UL 13, 300 VAC, 80 C

Specifications

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	0 °C to 60 °C (32 °F to 140 °F)
Operation	0 °C to 70 °C (32 °F to 158 °F)

* Note: 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.

Fiber Count	Number of Conductors	Weight	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Max. Tensile Strength, Long-Term	Max. Tensile Strength, Short-Term
900 µm Tight-Buffered with 16 AWG							
1	2	45.8 kg/km (30.78 lb/1000 ft)	6.6 mm (0.26 in)	99.06 mm (3.90 in)	66.04 mm (2.60 in)	100 N (22.5 lbf)	334 N (75 lbf)
2	2	62.1 kg/km (41.73 lb/1000 ft)	6.9 mm (0.27 in)	102.87 mm (4.05 in)	68.58 mm (2.70 in)	100 N (22.5 lbf)	334 N (75 lbf)
900 µm Tight-Buffered with 20 AWG							
1	2	32.2 kg/km (21.6 lb/1000 ft)	4.8 mm (0.19 in)	72.39 mm (2.85 in)	48.26 mm (1.90 in)	67 N (15 lbf)	222 N (50 lbf)
2	2	34.9 kg/km (23.5 lb/1000 ft)	5.2 mm (0.20 in)	76.20 mm (3.00 in)	50.8 mm (2.00 in)	67 N (15 lbf)	222 N (50 lbf)
2	4	49.0 kg/km (32.9 lb/1000 ft)	5.6 mm (0.22 in)	84.00 mm (3.30 in)	56.0 mm (2.20 in)	133 N (30 lbf)	445 N (100 lbf)
4	4	56.5 kg/km (37.9 lb/1000 ft)	6.4 mm (0.25 in)	96 mm (3.75 in)	64 mm (2.50 in)	133 N (30 lbf)	445 N (100 lbf)
4	2	37.6 kg/km (25.3 lb/1000 ft)	5.3 mm (0.21 in)	80.01 mm (3.15 in)	53 mm (2.10 in)	133 N (30 lbf)	445 N (100 lbf)
6	2	44.2 kg/km (29.7 lb/1000 ft)	6.3 mm (0.25 in)	94.5 mm (3.75 in)	63 mm (2.50 in)	100 N (22.5 lbf)	334 N (75 lbf)
6	4	59.4 kg/km (39.9 lb/1000 ft)	7.0 mm (0.28 in)	105.0 mm (4.20 in)	70.0 mm (2.80 in)	133 N (30 lbf)	445 N (100 lbf)

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Fiber Count	Number of Conductors	Weight	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Max. Tensile Strength, Long-Term	Max. Tensile Strength, Short-Term
900 µm Tight-Buffered with 22 AWG							
1	2	28.4 kg/km (19.1 lb/1000 ft)	4.7 mm (0.19 in)	72.39 mm (2.85 in)	48.26 mm (1.90 in)	67 N (15 lbf)	222 N (50 lbf)
2	4	41.3 kg/km (27.75 lb/1000 ft)	5.4 mm (0.21 in)	53.34 mm (2.10 in)	80.01 mm (3.15 in)	67 N (15 lbf)	222 N (50 lbf)
2	2	30.6 kg/km (20.6 lb/1000 ft)	5.0 mm (0.20 in)	50.8 mm (2.00 in)	76.2 mm (3.00 in)	67 N (15 lbf)	222 N (50 lbf)
4	2	33.7 kg/km (22.6 lb/1000 ft)	5.2 mm (0.20 in)	50.8 mm (2.0 in)	52 mm (3.0 in)	67 N (15 lbf)	222 N (50 lbf)
4	4	46.3 kg/km (31.11 lb/1000 ft)	6.0 mm (0.24 in)	60.96 mm (2.40 in)	91.44 mm (2.10 in)	133 N (30 lbf)	445 N (100 lbf)
6	2	38.7 kg/km (26.0 lb/1000 ft)	5.8 mm (0.23 in)	58.42 mm (2.30 in)	87.63 mm (3.45 in)	100 N (22.5 lbf)	334 N (75 lbf)
6	2	51.7 kg/km (34.74 lb/1000 ft)	6.8 mm (0.27 in)	68.58 mm (2.70 in)	102.87 mm (4.05 in)	133 N (30 lbf)	445 N (100 lbf)
900 µm Tight-Buffered with 24 AWG							
1	2	25.5 kg/km (17.1 lb/1000 ft)	4.7 mm (0.19 in)	72.39 mm (2.85 in)	48 mm (1.90 in)	67 N (15 lbf)	222 N (50 lbf)
2	4	35.6 kg/km (23.9 lb/1000 ft)	5.4 mm (0.21 in)	53.34 mm (2.10 in)	80.01 mm (3.15 in)	67 N (15 lbf)	222 N (50 lbf)
2	2	27.4 kg/km (18.4 lb/1000 ft)	4.9 mm (0.19 in)	72.39 mm (2.85 in)	48.56 mm (1.90 in)	67 N (15 lbf)	222 N (50 lbf)
4	2	30.7 kg/km (20.6 lb/1000 ft)	5.2 mm (0.20 in)	50.8 mm (2.0 in)	76.2 mm (3.0 in)	67 N (15 lbf)	222 N (50 lbf)
4	4	42.2 kg/km (28.4 lb/1000 ft)	6.0 mm (0.24 in)	90.0 mm (3.60 in)	60 mm (2.40 in)	100 N (22.5 lbf)	334 N (75 lbf)
6	4	46.7 kg/km (31.4 lb/1000 ft)	6.6 mm (0.26 in)	99.06 mm (3.90 in)	66.04 mm (2.60 in)	100 N (22.5 lbf)	334 N (75 lbf)
6	2	37.3 kg/km (25.6 lb/1000 ft)	5.8 mm (0.23 in)	87.0 mm (3.45 in)	58 mm (2.30 in)	67 N (15 lbf)	222 N (50 lbf)

Transmission Performance

Single-mode		
Fiber Name	SMF-28® Ultra fiber	ClearCurve® ZBL
Fiber Category	G.652.D/G.657.A1	G.657.B3/G.652.D
Fiber Code	Z	U
Performance Option Code	31	31
Wavelengths (nm)	1310/1383/1550	1310/1383/1550
Maximum Attenuation (dB/km)	0.4/0.4/0.4	0.4/0.4/0.3

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Ordering Information | *Note: Contact Customer Care at 1-800-743-2675 for other options.*

				4	8	-				3	1	M		
1	2	3	4	5	6	7	8	9	10					

1 Select fiber count.

001 = 1 fiber 004 = 4 fiber
002 = 2 fiber 006 = 6 fiber

2 Select fiber type.

U = ClearCurve® ZBL (OS2)
Z = SMF28® Ultra fiber (OS2)

3 Defines cable construction.

4 = 900 µm tight-buffered fiber

4 Defines outer jacket.

8 = Plenum indoor

5 Select number of copper conductors.

2 = 2 conductors
4 = 4 conductors

6 Select length markings.

1 = Feet
2 = Meter

7 Select 900 µm conductor size.

Y = 16 AWG
Z = 20 AWG
Q = 22 AWG
R = 24 AWG

8 Defines performance option code.

31 = Single-mode, OS2 (U)
(Max. attenuation 0.4/0.4/0.3 dB/km)
31 = Single-mode, OS2 (Z)
(Max. attenuation 0.4/0.4/0.4 dB/km)

9 Defines cable construction.

M = Hybrid (composite) cable

10 Select reel length.

B1 = 500 ft (150 m)
B2 = 1000 ft (300 m)



Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA

800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm

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