

Fan-Out Plenum Cables, 2-24 Fibers

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Features and Benefits

900 µm TBII® Buffered Fibers

Easy, consistent stripping

Flame-retardant jacket

Rugged and durable

All-dielectric cable construction

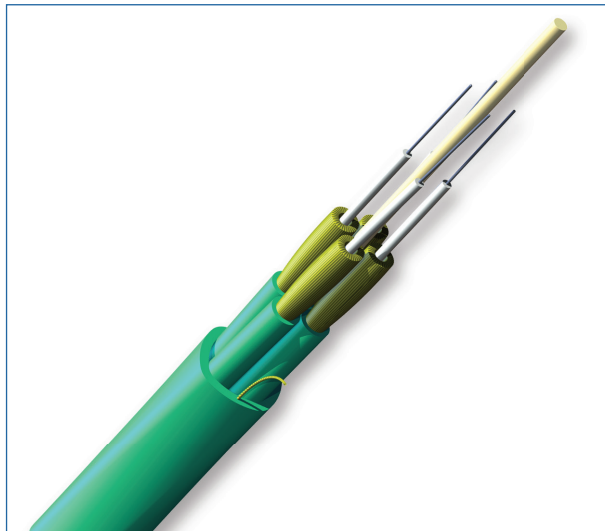
Requires no grounding or bonding

Standards

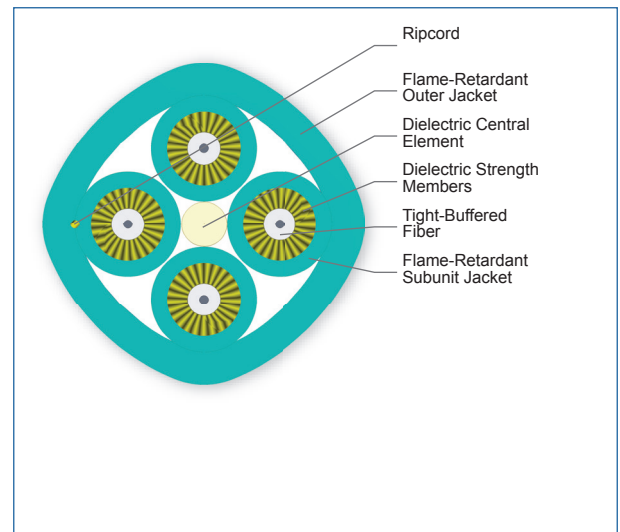
Approvals and Listings	National Electrical Code® (NEC®) OFNP, CSA FT-6, ICEA S-83-596
Flame Resistance	NFPA 262 (for plenum, riser and general building applications)

Corning fan-out plenum cables are designed for use in building backbone and horizontal cabling. These multifiber cables use individually jacketed 900 µm TBII Buffered Fibers enabling easy, consistent stripping and facilitating termination. The fibers are stranded around a dielectric central member with a flame-retardant outer jacket, making this cable particularly useful for applications requiring direct connection to terminal equipment or requiring extra rugged cables.

This cable is available in 12 different jacket colors – blue, orange, green, brown, slate, white, red, black, yellow, violet, rose and aqua. The colored jacket allows for easy visual identification of the cables. The standard jacket color will be determined by the dominant fiber type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.



Fan-Out Plenum Cables, 4 Fibers | Photo PIM1063



Fan-Out Plenum Cables, 4 Fibers | Photo PIM1961

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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.

Mechanical Characteristics Cable						
Fiber Count	Central Element	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight	Product Type
1.65 mm Subunits, Dual-Layer						
12	Yarn	8.9 mm (0.4 in)	134 mm (5.3 in)	89 mm (3.5 in)	82 kg/km (55 lb/1000 ft)	Distribution
16	GRP	10.9 mm (0.4 in)	164 mm (6.3 in)	109 mm (4.3 in)	109 kg/km (73 lb/1000 ft)	Distribution
24	Jacketed GRP	12.2 mm (0.5 in)	183 mm (7.2 in)	122 mm (4.8 in)	152 kg/km (102 lb/1000 ft)	Distribution
1.65 mm Subunits, Single-Layer						
2	Yarn	5.2 mm (0.2 in)	78 mm (3.1 in)	52 mm (2.1 in)	28 kg/km (19 lb/1000 ft)	Distribution
4	Yarn	6 mm (0.2 in)	90 mm (3.6 in)	60 mm (2.4 in)	37 kg/km (25 lb/1000 ft)	Distribution
6	GRP	7.1 mm (0.3 in)	106 mm (4.1 in)	71 mm (2.8 in)	53 kg/km (36 lb/1000 ft)	Distribution
8	Jacketed GRP	8.1 mm (0.3 in)	122 mm (4.8 in)	81 mm (3.1 in)	61 kg/km (41 lb/1000 ft)	Distribution
2.0 mm Subunits, Dual-Layer						
12	GRP	10.5 mm (0.4 in)	158 mm (6.2 in)	105 mm (4.1 in)	99 kg/km (67 lb/1000 ft)	Distribution
16	GRP	12.1 mm (0.5 in)	182 mm (7.2 in)	121 mm (4.8 in)	141 kg/km (95 lb/1000 ft)	Distribution
24	Jacketed GRP	14.2 mm (0.6 in)	213 mm (8.4 in)	142 mm (5.6 in)	211 kg/km (142 lb/1000 ft)	Distribution
2.0 mm Subunits, Single-Layer						
2	Yarn	5.8 mm (0.2 in)	87 mm (3.5 in)	58 mm (2.3 in)	33 kg/km (22 lb/1000 ft)	Distribution
4	GRP	6.8 mm (0.3 in)	102 mm (4.0 in)	68 mm (2.7 in)	47 kg/km (32 lb/1000 ft)	Distribution

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Mechanical Characteristics Cable

Fiber Count	Central Element	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight	Product Type
4	GRP	6.8 mm (0.3 in)		68 mm (2.7 in)	47 kg/km (32 lb/1000 ft)	Distribution
6	GRP	8.3 mm (0.3 in)	125 mm (4.9 in)	83 mm (3.3 in)	72 kg/km (48 lb/1000 ft)	Distribution
8	Jacketed GRP	8.8 mm (0.4 in)	132 mm (5.2 in)	88 mm (3.5 in)	88 kg/km (59 lb/1000 ft)	Distribution
2.9 mm Subunits, Dual-Layer						
12	GRP	13.5 mm (0.5 in)	203 mm (8.0 in)	135 mm (5.3 in)	152 kg/km (102 lb/1000 ft)	Distribution
16	GRP	15.4 mm (0.6 in)	231 mm (9.1 in)	154 mm (6.1 in)	215 kg/km (144 lb/1000 ft)	Distribution
24	Jacketed GRP	19.2 mm (0.8 in)	288 mm (11.3 in)	192 mm (7.6 in)	336 kg/km (226 lb/1000 ft)	Distribution
2.9 mm Subunits, Single-Layer						
2	Yarn	7.7 mm (0.3 in)	116 mm (4.6 in)	77 mm (3.0 in)	48 kg/km (33 lb/1000 ft)	Distribution
4	GRP	8.6 mm (0.4 in)	129 mm (5.1 in)	86 mm (3.4 in)	69 kg/km (47 lb/1000 ft)	Distribution
6	Jacketed GRP	10.4 mm (0.4 in)	156 mm (6.2 in)	104 mm (4.1 in)	105 kg/km (71 lb/1000 ft)	Distribution
8	Jacketed GRP	12.3 mm (0.5 in)	185 mm (7.3 in)	123 mm (4.8 in)	146 kg/km (98 lb/1000 ft)	Distribution

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Transmission Performance

Multimode					
Fiber Core Diameter (µm)	62.5	50	50	50	50
Fiber Category	OM1	OM2	OM3	OM4	OM4 Extended Distance
Fiber Code	K	T	T	T	T
Performance Option Code	30	31	80	90	91
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300	850/1300
Maximum Attenuation (dB/km)	3.4/1.0	2.8/1.0	2.8/1.0	2.8/1.0	2.8/1.0
Serial 1 Gigabit Ethernet (m)	200/500	750/600	1000/600	1100/600	1100/600
Serial 10 Gigabit Ethernet (m)	220/-	150/-	300/-	550/-	600/-
Min. Overfilled Launch (OFL) Bandwidth (MHz*km)	300/550	700/500	1500/500	3500/500	3500/500
Minimum Effective Modal Bandwidth (EMB) (MHz*km)	33/-	950/-	2000/-	4700/-	5350/-

* Assumes 1.0 dB maximum total connector/splice loss.

* Assumes 0.7 dB maximum total connector/splice loss.

* Meets 0.75 ns optical skew when used in all Corning Plug and Play™/Pretium EDGE® systems solutions.

* ITU-T G.652 D compliant.

Notes: 1) Improved attenuation and bandwidth options available.

2) Bend-insensitive single-mode fibers available on request.

3) Contact a Corning Customer Care Representative for additional information.

4) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.

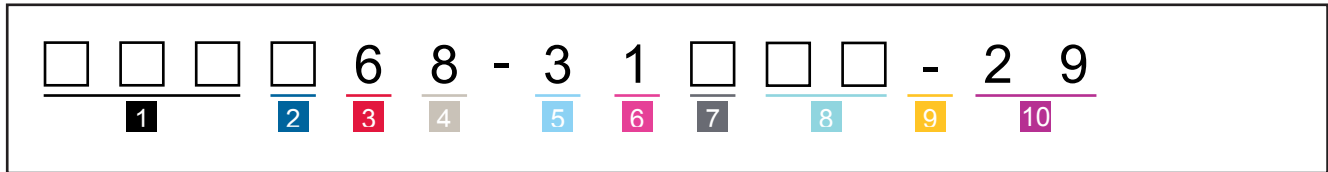
Single-mode		
Fiber Name	SMF-28e® fiber	ClearCurve® XB**
Fiber Category	G.652.D	G.652.D/G.657.A1
Fiber Code	E	H
Performance Option Code	31	31
Wavelengths (nm)	1310/1383/1550	1310/1383/1550
Maximum Attenuation (dB/km)	0.65/0.65/0.50	0.65/0.65/0.5



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



1 Select fiber count.

Standard offerings:
002 006 012 024
004 008 016

2 Select fiber code.

K = 62.5 μm multimode (OM1)
T = 50 μm multimode (OM2/OM3/OM4/OM4+)
E = Single-mode (OS2) SMF-28e+® fiber
H = Single-mode (OS2) ClearCurve® (XB)

3 Defines cable type.

6 = Standard for fan-out cables

4 Defines outer jacket.

8 = Standard for plenum

5 Defines fiber placement.

3 = Standard

6 Defines length markings.

1 = Markings in ft (standard)

7 Select subunit size.

1 = 2.9 mm
3 = 2.0 mm
4 = 1.65 mm

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)
91 = 50 μm multimode (OM4+)
31 = Single-mode (OS2)
(Max. attenuation .65 / .65 / 0.5 dB/km)

9 Defines cable type.

- = Standard for fan-out cables

10 Defines special requirements.

29 = No special requirements



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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