

Fan-Out Riser Cables, 2-24 Fibers

CORNING

Features and Benefits

900 μ m Buffered Fibers

Easy, consistent stripping

Flame-retardant jacket

Rugged and durable

All-dielectric cable construction

Requires no grounding or bonding

Standards

Approvals and Listings

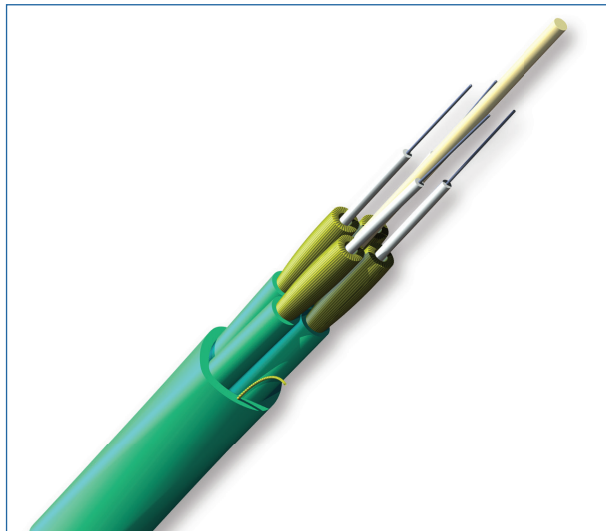
National Electrical Code®
(NEC®) OFCR, CSA FT-4,
ICEA S-83-596

Flame Resistance

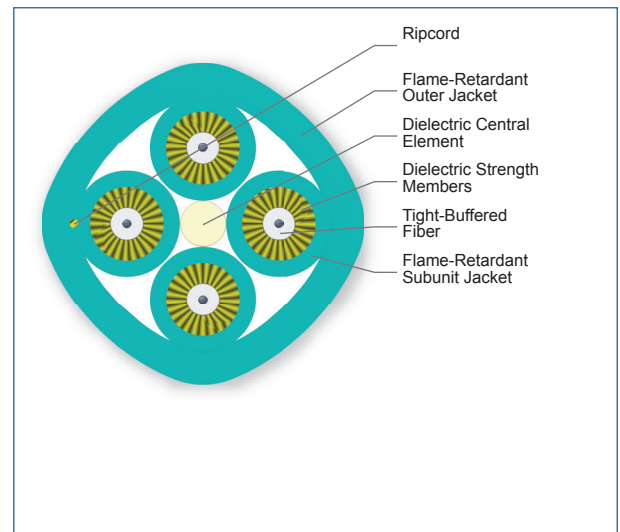
UL-1666 (for riser and general building applications)

Corning fan-out riser cables are designed for use in building backbone and horizontal cabling. These multifiber cables use individually jacketed 900 μ m 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 Riser Cables, 4 Fibers
| Photo PIM0999



Fan-Out Riser Cables, 4 Fibers | Photo PIM1898

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Specifications

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-10 °C to 60 °C (14 °F to 140 °F)
Operation	-20 °C to 70 °C (-4 °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
2.9 mm Subunits, Single-Layer						
2	Yarn	7.7 mm (0.3 in)	116 mm (4.5 in)	77 mm (3 in)	40 kg/km (27 lb/1000 ft)	Distribution
4	GRP	8.6 mm (0.3 in)	129 mm (5.1 in)	86 mm (3.4 in)	59 kg/km (40 lb/1000 ft)	Distribution
6	Jacketed GRP	10.4 mm (0.4 in)	156 mm (6.2 in)	104 mm (4.1 in)	88 kg/km (59 lb/1000 ft)	Distribution
8	Jacketed GRP	12.3 mm (0.5 in)	185 mm (7.3 in)	123 mm (4.8 in)	122 kg/km (82 lb/1000 ft)	Distribution
2.9 mm Subunits, Dual-Layer						
12	GRP	13.5 mm (0.5 in)	203 mm (8 in)	135 mm (5.3 in)	128 kg/km (86 lb/1000 ft)	Distribution
16	GRP	15.5 mm (0.6 in)	233 mm (9.2 in)	155 mm (6.1 in)	186 kg/km (125 lb/1000 ft)	Distribution
24	Jacketed GRP	19.3 mm (0.8 in)	290 mm (11.4 in)	193 mm (7.6 in)	288 kg/km (193 lb/1000 ft)	Distribution
2.0 mm Subunits, Single-Layer						
2	Yarn	5.9 mm (0.2 in)	89 mm (3.5 in)	59 mm (2.3 in)	28 kg/km (19 lb/1000 ft)	Distribution
4	GRP	6.8 mm (0.3 in)	102 mm (4 in)	68 mm (2.7 in)	39 kg/km (27 lb/1000 ft)	Distribution
6	GRP	8.3 mm (0.3 in)	125 mm (4.9 in)	83 mm (3.1 in)	60 kg/km (41 lb/1000 ft)	Distribution
8	Jacketed GRP	9.4 mm (0.4 in)	135 mm (5.3 in)	94 mm (3.7 in)	76 kg/km (51 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)	80 kg/km (54 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
16	GRP	11.3 mm (0.4 in)	170 mm (6.7 in)	113 mm (4.4 in)	103 kg/km (69 lb/1000 ft)	Distribution
24	GRP	13.9 mm (0.6 in)	209 mm (8.2 in)	139 mm (5.5 in)	161 kg/km (108 lb/1000 ft)	Distribution
24	Jacketed GRP	13.9 mm (0.6 in)	209 mm (8.2 in)	139 mm (5.5 in)	161 kg/km (108 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)	23 kg/km (16 lb/1000 ft)	Distribution
4	Yarn	6 mm (0.2 in)	90 mm (3.6 in)	60 mm (2.4 in)	31 kg/km (21 lb/1000 ft)	Distribution
6	GRP	7.1 mm (0.3 in)	107 mm (4.2 in)	71 mm (2.8 in)	45 kg/km (30 lb/1000 ft)	Distribution
8	Jacketed GRP	8.1 mm (0.3 in)	122 mm (4.8 in)	81 mm (3.1 in)	58 kg/km (39 lb/1000 ft)	Distribution
1.65 mm Subunits, Dual-Layer						
12	Yarn	8.4 mm (0.3 in)	126 mm (5 in)	84 mm (3.3 in)	61 kg/km (41 lb/1000 ft)	Distribution
16	Yarn	10.3 mm (0.4 in)	155 mm (6.1 in)	103 mm (4.1 in)	81 kg/km (54 lb/1000 ft)	Distribution
16	GRP	10.3 mm (0.4 in)	155 mm (6.1 in)	103 mm (4.1 in)	81 kg/km (54 lb/1000 ft)	Distribution
24	Jacketed GRP	11.6 mm (0.5 in)	124 mm (6.9 in)	116 mm (4.6 in)	117 kg/km (79 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)	300/550	750/600	1000/600	1000/600	1100/600
Serial 10 Gigabit Ethernet (m)	33/-	150/-	300/-	550/-	600/-
Min. Overfilled Launch (OFL) Bandwidth (MHz*km)	200/500	700/500	1500/500	3500/500	3500/500
Minimum Effective Modal Bandwidth (EMB) (MHz*km)	220/-	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™/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.

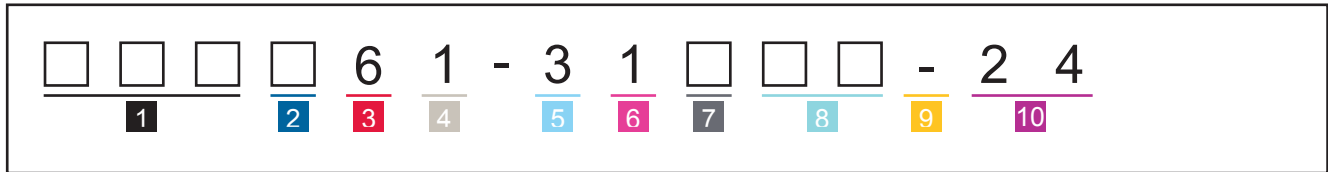
Single-mode		
Fiber Name	SMF-28e® fiber	SMF-28® Ultra fiber
Fiber Category	G.652.D	G.652.D/G.657.A1
Fiber Code	E	Z
Performance Option Code	31	31
Wavelengths (nm)	1310/1383/1550	1310/1383/1550
Maximum Attenuation (dB/km)	0.65/0.65/0.50	0.65/0.65/0.50

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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
Z = Single-mode (OS2) SMF-28[®] ULTRA

3 Defines cable type.

6 = Standard for fan-out cables

4 Defines outer jacket.

1 = Standard for riser

5 Defines fiber placement.

3 = Standard

6 Defines length markings.

1 = Markings in ft (standard)

7 Select subunit diameter.

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

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.

24 = No special requirements



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