Fan-Out Riser Cables, 2-24 Fibers

Features and Benefits

900 µm TBII® Buffered Fibers
Easy, consistent stripping

Flame-retardant jacket
Rugged and durable

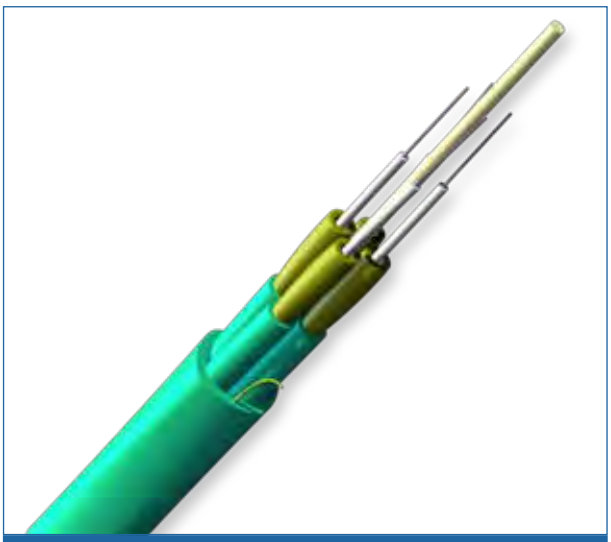
All-dielectric cable construction
Requires no grounding or bonding

Standards

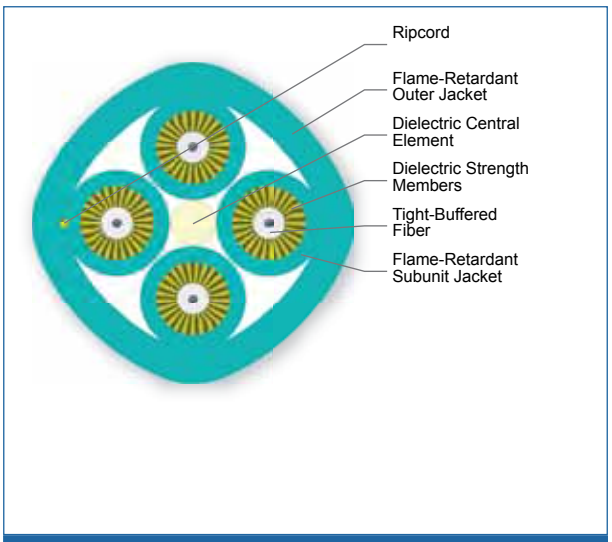
Approval and Listings	National Electrical Code® (NEC®) OFCR, CSA FT-4, ICEA S-83-596
Flame Resistance	UL-1666 (for riser and general building applications)

Corning Cable Systems Fan-Out 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, purple, 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



Fan-Out Riser Cables, 4-Fibers

Fan-Out Riser Cables, 2-24 Fibers

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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)

** Corning Cable Systems 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	Product Type	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
1.65 mm Subunits, Single-Layer					
2	Distribution	5.2 mm (0.2 in)	78 mm (3.1 in)	52 mm (2.1 in)	23 kg/km (16 lb/1000 ft)
4	Distribution	6 mm (0.2 in)	90 mm (3.6 in)	60 mm (2.4 in)	31 kg/km (21 lb/1000 ft)
6	Distribution	7.1 mm (0.3 in)	107 mm (4.2 in)	71 mm (2.8 in)	45 kg/km (30 lb/1000 ft)
8	Distribution	8.1 mm (0.3 in)	122 mm (4.8 in)	81 mm (3.1 in)	58 kg/km (39 lb/1000 ft)
1.65 mm Subunits, Dual-Layer					
12	Distribution	8.4 mm (0.3 in)	126 mm (5 in)	84 mm (3.3 in)	61 kg/km (41 lb/1000 ft)
16	Distribution	10.3 mm (0.4 in)	155 mm (6.1 in)	103 mm (4.1 in)	81 kg/km (54 lb/1000 ft)
24	Distribution	11.6 mm (0.5 in)	124 mm (6.9 in)	116 mm (4.6 in)	117 kg/km (79 lb/1000 ft)
2.0 mm Subunits, Single-Layer					
2	Distribution	5.9 mm (0.2 in)	89 mm (3.5 in)	59 mm (2.3 in)	28 kg/km (19 lb/1000 ft)
4	Distribution	6.8 mm (0.3 in)	102 mm (4 in)	68 mm (2.7 in)	39 kg/km (27 lb/1000 ft)
6	Distribution	8.3 mm (0.3 in)	125 mm (4.9 in)	83 mm (3.1 in)	60 kg/km (41 lb/1000 ft)
8	Distribution	9.4 mm (0.4 in)	135 mm (5.3 in)	94 mm (3.7 in)	76 kg/km (51 lb/1000 ft)
2.0 mm Subunits, Dual-Layer					
12	Distribution	10.5 mm (0.4 in)	158 mm (6.2 in)	105 mm (4.1 in)	80 kg/km (54 lb/1000 ft)
16	Distribution	11.3 mm (0.4 in)	170 mm (6.7 in)	113 mm (4.4 in)	103 kg/km (69 lb/1000 ft)

Fan-Out Riser Cables, 2-24 Fibers

Fiber Count	Product Type	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
24 - 16	Distribution	13.9 mm (0.6 in)	209 mm (8.2 in)	139 mm (5.5 in)	161 kg/km (108 lb/1000 ft)
2.9 mm Subunits, Single-Layer					
2	Distribution	7.7 mm (0.3 in)	116 mm (4.5 in)	77 mm (3 in)	40 kg/km (27 lb/1000 ft)
4	Distribution	8.6 mm (0.3 in)	129 mm (5.1 in)	86 mm (3.4 in)	59 kg/km (40 lb/1000 ft)
6	Distribution	10.4 mm (0.4 in)	156 mm (6.2 in)	104 mm (4.1 in)	88 kg/km (59 lb/1000 ft)
8	Distribution	12.3 mm (0.5 in)	185 mm (7.3 in)	123 mm (4.8 in)	122 kg/km (82 lb/1000 ft)
2.9 mm Subunits, Dual-Layer					
12	Distribution	13.5 mm (0.5 in)	203 mm (8 in)	135 mm (5.3 in)	128 kg/km (86 lb/1000 ft)
16	Distribution	15.5 mm (0.6 in)	233 mm (9.2 in)	155 mm (6.1 in)	186 kg/km (125 lb/1000 ft)
24	Distribution	19.3 mm (0.8 in)	290 mm (11.4 in)	193 mm (7.6 in)	288 kg/km (193 lb/1000 ft)

Chemical Characteristics

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

Fan-Out Riser Cables, 2-24 Fibers

Transmission Performance

Fiber Type Fiber Core Diameter (µm)	Multimode 62.5	Multimode 50	Multimode 50	Multimode 50	Multimode 50	Single-mode 8.2
Fiber Category	OM1	OM2	OM3	OM4	OM4 Extended Distance	OS2
Fiber Code	K	T	T	T	T	E
Performance Option Code	30	31	80	90	91	31
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	850 / 1300	1310 / 1383 / 1550
Maximum Attenuation (dB/km)	3.4 / 1.0	2.8 / 1	2.8 / 1	2.8 / 1	2.8 / 1	0.65 / 0.65 / 0.5
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 / -	
Serial 1 Gigabit Ethernet (m)	300 / 550	750 / 600	1000 / 600	1100 / 600	1100 / 600	5000 / - / -
Serial 10 Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	600 / -	10000 / - / 40000
Induced Attenuation @ 7.5 mm Radius (dB)			< 30 up to 80			

* 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 Cable Systems Plug & 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 Cable Systems 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.*

Fan-Out Riser Cables, 2-24 Fibers

Ordering Information | Contact Customer Care at 1-800-743-2671 for other options.

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

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®

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 feet (standard)

7 Select tensile strength.
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 dB/km)

9 Defines cable type.
- = Standard for fan-out cables

10 Defines special requirements.
24 = No special requirements

RoHS COMPLIANT

Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA
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