

# Gel free Corning Cables

## ALTOS All-Dielectric Loose Tube ADSS



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ALTOS All-Dielectric Loose Tube Cables manufactured by Corning Cable Systems are lightweight cables used for outdoor aerial and duct (lashed) installations. The loose tube design is compatible with any telecommunications optical grade fiber and provides stable performance over a wide temperature range.

### **Features & Benefits:**

- Meets industry standards including ICEA-640 and Telcordia GR-20, and is listed with RUS 1755.900 (PE 90)
- Available in multi-mode (62.5/125 $\mu$ m and 50/125 $\mu$ m) and single-mode
- 3mm buffer tubes are flexible and route easily in splice closures
- Construction consists of a maximum of 12 fibers per buffer tube
- The standard buffer size reduces the number of access tools required by the installer

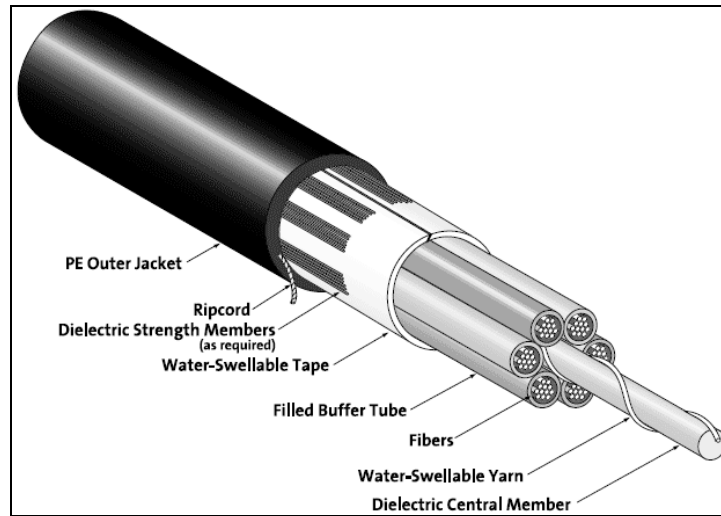
- Altos cables provide a unique water blocking design with water-swallowable tape that eliminates the need for flooding compound and provides for simple cable preparation
- S-Z stranded, loose tube fiber design isolates fibers from installation and environmental rigors and facilitates mid-span access
- Dielectric strength members have no preferential bend and require no bonding or grounding
- Up to 75 feet of buffer cable can be stored in splice closures and pedestals providing flexibility for mid span access
- Tensile strength is 600 lbs
- Medium density PE jacket (black in color) is rugged, durable and easy to strip
- UV resistant
- One year warranty

## Specifications:

Maximum Tensile Loads					Short-Term: 2700N (600 lbf) Long-Term: 890 N (200 lbf)			
Storage Temperature					-40° to +70° C (-40° to +158° F)			
Installation Temperature					-30° to +70° C (-22° to +158° F)			
Operating Temperature					-40° to +70° C (-40° to +158° F)			
Fiber Count	Max. Fiber / Tube	# of Tube Positions	# of Active Tubes	Central Member	Nominal Weight kg/km (lb/1000 ft)	Nominal Outer Diam. mm (in) <sup>1</sup>	Minimum Bend Radius	
							Loaded cm (in)	Installed cm (in)
2-60	12	5	1-5	Dielectric	91 (67)	11.5 (0.46)	17.3 (6.8)	11.5 (0.46)
61-72	12	6	6	Dielectric	106 (76)	12.2 (0.49)	18.3 (7.2)	12.2 (0.49)
73-96	12	8	7-8	Dielectric	140 (98)	14.1 (0.56)	21.2 (8.3)	14.1 (0.56)
97-120	12	10	9-10	Dielectric	181 (124)	16.1 (0.64)	24.2 (9.5)	16.1 (0.64)
121-192	12	16	11-16	Dielectric	196 (136)	17.6 (0.70)	26.4 (10.4)	17.6 (0.70)
193-216	12	18	17-18	Dielectric	219 (150)	18.4 (0.73)	27.6 (10.9)	18.4 (0.73)
217-240	12	20	19-20	Dielectric	243 (163)	19.3 (0.76)	29.0 (11.4)	19.3 (0.76)
241-288	12	24	21-24	Dielectric	301 (202)	21.5 (0.85)	32.3 (12.7)	21.5 (0.85)

Note: <sup>1</sup> Actual diameter may vary by ±5%

## Technical Drawing:



Technical Drawing of ALTOS All-Dielectric Loose Tube ADSS

## FREEDM® LST™ Gel-Free Cable



FREEDM® LST™ Gel-Free Cable

Corning Cable Systems FREEDM® LST™ Gel-Free Cable is perfect for inter and intra building backbones for aerial, duct and riser applications. FREEDM LST Cables are installer friendly. Cable preparation is a snap because these cables contain no messy gels, and the buffer tubes and fibers in each tube are color-coded for quick, easy identification.

## **Features & Benefits:**

Corning Cable Systems FREEDM® LST™ Gel-Free Cable is perfect for inter and intra building backbones for aerial, duct and riser applications. FREEDM LST Cables are installer friendly. Cable preparation is a snap because these cables contain no messy gels, and the buffer tubes and fibers in each tube are color-coded for quick, easy identification.

Designed to the new ICEA-696 standard, which ensures reliable outside and inside plant cable performance. Perfect for use in short distance campus backbone applications. These cables are National Electrical Code® (NEC®) OFNR, CSA OFN FT-4 listed for riser applications, so no transition splice is required when entering the building. They are UV-resistant and fully water blocked for indoor/outdoor applications

- Operating temperature: -40°F to +158°F
- FREEDM® LST™ Cables eliminates the need for building entrance transition splices or rigid metallic conduit, reducing installation time and cost
- Gel-free design is fully water blocked for long term outdoor reliability. The cables are used for both indoor and outdoor applications.
- Cable access is easy and the use of buffer tube fan-out kits is simple.
- Standard 3 mm buffer tube reduces number of access tools that are needed for installation
- Color-coded fibers and buffer tubes for easy identification
- No preferential bend axis allows for easy installation
- All-dielectric cable construction requires no grounding or bonding
- UV resistant jacket is durable and reliable for outdoor applications
- Flame-retardant jacket

- OFNR and FT-4 and NEC 770 listed for riser applications
- RoHS compliant
- Each cable complies with the tensile strength specified in the ICEA-696. Tensile Strength is 300 lbs
- Markings on cable in 1-foot graduations
- Jacket color is Black
- Meets ICEA S-104-696 test criteria
- One-year warranty

## Specifications:

<b>Temperatures</b>	Storage: -40° to +70°C (-40° to +158°F) Installation: -10° to +60°C (+14° to +140°F)  Operation: -40° to +70°C (-40° to +158°F)
<b>Approvals and Listings</b>	National Electrical Code® (NEC®) OFNR, CSA OFN FT-4
<b>Common Installations</b>	Outdoor aerial and duct; indoor vertical riser and general purpose horizontal according to NEC Article 770
<b>Design and Test Criteria</b>	ANSI/ICEA S-104-696

*Corning Cable Systems recommends storing indoor/outdoor 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	Nominal Weight kg/km (lb/1000 ft)	Nominal Diameter mm (in)	Maximum Tensile Load		Minimum Bend Radius	
			Short-Term N (lbf)	Long-Term N (lbf)	Loaded cm (in)	Installed cm (in)
2-12	55 (37)	8.0 (0.31)	1330 (300)	400 (90)	12.0 (4.9)	8.0 (3.1)
13-24	72 (48)	11.2 (0.44)	2700 (600)	810 (180)	16.8 (6.6)	11.2 (4.4)

## Transmission Performance

Fiber Code	K	C	S	S	E
Performance Option Code	30	31	80	90	01
Fiber Type	62.5/125 µm (850/1300 nm)	50/125 µm (850/1300 nm)	50/125 µm (850/1300 nm)	50/125 µm (850/1300 nm)	Single-mode (1310/1383/1550 nm)
Maximum Attenuation (dB/km)	3.5/1.0	3.5/1.5	3.0/1.5	3.0/1.5	0.4/0.4/0.3
Minimum LED Bandwidth (MHz•km)	200/500	500/500	1500/500	1500/500	- / - / -
Minimum Effective Modal Bandwidth (MHz•km)	*220/ -	*510/ -	**2000/ -	***4700/ -	- / - / -
Serial Gigabit Ethernet Distance (m)	300/550	600/600	1000/600	1000/600	5000/ - / -
Serial 10 Gigabit Ethernet Distance (m)	33/ -	82/ -	300/ -	****550/ -	10000/40000

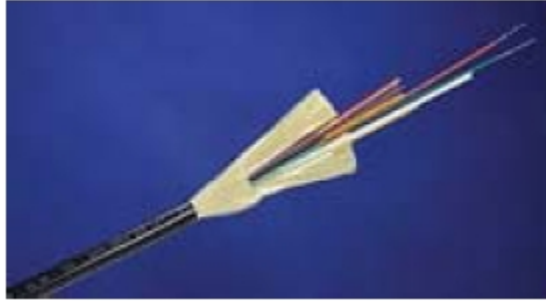
\* As predicted by RML BW, per TIA/EIA 455-204 and IEC 60793-1-41, for intermediate performance laser-based systems (up to 1 Gb/s).

\* As predicted by minEMBC, per TIA/EIA 455-220 and IEC 60793-1-49, for high performance laser-based systems (up to 10 Gb/s).

- \* As predicted by minEMBc, per TIA/EIA 455-220 and IEC 60793-1-49, for high performance laser-based systems (up to 10 Gb/s).
- \* The 550 m distance is equivalent to a 4700 EMB system with standards-compliant transceiver and fiber characteristics, 3.0 dB/km cable attenuation and 1.0 dB total connector loss.

## Specialty Plenum Cables

### FREEDM® One Plenum and Riser Cable



### FREEDM® One Plenum and Riser Cable

Corning cable systems FREEDM® One Plenum and Riser Cable is designed to the new ICEA-696 standard, and ensures reliable outside and inside plant cable performance, perfect for use in short distance campus backbone applications. They are NEC OFNP/FT-6 listed for Plenum and OFNR/FT-4 for Riser, RoHS compliant, UV-resistant and fully water blocked for indoor/outdoor applications.

### Features & Benefits:

- Operating temperature: -40°F to +158°F
- The FREEDM Riser dry cables with no-gel technology ensure long term water-blocking performance for outdoor applications
- The FREEDM Plenum is used for indoor application only
- FREEDM ® One plenum/riser cables eliminate the need for building entrance transition splices or rigid metallic conduit, reducing installation time and cost
- Tight-buffered design eliminates need for fan-out kits

- TIA-598 color-coded 900µm TBII®Buffered Fibers for easy identification and direct termination
- Fiber counts of 6, 12 and 24 fibers
- ICEA S-104-696 compliant. 300 lbs Tensile Strength
- Small diameter and bend radius allow for easy installation in space-constrained areas
- All-dielectric cable construction eliminates grounding and bonding concerns
- UV resistant jacket to support aerial applications
- Flame-retardant outer jacket is rugged and durable to ensure conformance to ICEA 696
- OFNP and FT-6 listed for plenum flame rating, riser and general purpose use (FREEDM ® One Plenum)
- OFNR and FT-4 listed for riser and general purpose use (FREEDM ® One Riser)
- RoHS compliant
- Jacket color is Black
- Markings on cable in 1-foot graduations
- Available with 62.5µm, 50µm and single-mode fiber
- One-year warranty

## Specifications:

### FREEDM® One Plenum Cables

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<b>Temperatures</b>	Storage:	-40° to +70°C (-40° to +158°F)
	Installation:	0° to +60°C (+32° to +140°F)
	Operation:	-40° to +70°C (-40° to +158°F)
<b>Approvals and Listings</b>	National Electrical Code® (NEC®) OFNP, CSA FT-6	

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**Design and Test Criteria** ICEA S-104-696

Fiber Count	Nominal Weight kg/km (lb/1000 ft)	Nominal Outer Diameter mm (in)	Minimum Loaded cm (in)	Bend Radius Installed cm (in)	Maximum Short-Term N (lbf)	Maximum Long-Term N (lbf)
6	37 (25)	6.2 (0.24)	9.2 (3.6)	6.2 (2.4)	1335 (300)	400 (90)
12	59 (40)	7.3 (0.28)	11.0 (4.3)	7.3 (2.8)	1335 (300)	400 (90)
24	141 (95)	10.9 (0.43)	21.8 (8.6)	10.9 (4.3)	2670 (600)	801 (180)

Corning Cable Systems recommends storing indoor/outdoor cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.

**Transmission Performance**

Fiber Code	K	C	S	S	E
Performance Option Code	30	31	80	90	31
Fiber Type	62.5/125 µm (850/1300 nm)	50/125 µm (850/1300 nm)	50/125 µm (850/1300 nm)	50/125 µm (850/1300 nm)	Single-mode (1310/1383/1550 nm)
Maximum Attenuation (dB/km)	3.5/1.0	3.5/1.5	3.0/1.5	3.0/1.5	1.0/1.0/0.75
Minimum LED Bandwidth (MHz•km)	200/500	500/500	1500/500	1500/500	- / - / -
Minimum Effective Modal Bandwidth (MHz•km)	220/ - *	510/ - *	2000/ - *	4700/ -	- / - / -
Serial Gigabit Ethernet Distance (m)	300/550	600/600	1000/600	1000/600	5000/ - / -
Serial 10 Gigabit Ethernet Distance (m)	33/ -	82/ -	300/ -	550/ -	10000/40000

\*EMB when deployed with 850 nm, 1 Gb/s VCSELs, as predicted by RML Bandwidth using FOTP-204.

# FREEDM® One Riser Cables

Temperatures	Storage:	-40° to +70°C (-40° to +158°F)
	Installation:	10° to +60°C (+14° to +140°F)
	Operation:	-40° to +70°C (-40° to +158°F)

**Approvals and Listings** National Electrical Code® (NEC®) OFNR, FT-4

**Design and Test Criteria** ICEA S-104-696

Fiber Count	Nominal Weight kg/km (lb/1000 ft)	Nominal Outer Diameter mm (in)	Minimum Loaded cm (in)	Bend Radius Installed cm (in)	Maximum Short-Term N (lbf)	Maximum Long-Term N (lbf)
6	39 (26)	6.3 (0.24)	9.5 (3.7)	6.3 (2.5)	1335 (300)	400 (90)
12	60 (40)	7.4 (0.29)	11.1 (4.4)	7.4 (2.9)	1335 (300)	400 (90)
24	127 (86)	11.0 (0.43)	22.0 (8.6)	11.0 (4.3)	2670 (600)	801 (180)

**Transmission Performance**

Fiber Code	K	C	S	S	E
Performance Option Code	30	31	80	90	31
Fiber Type	62.5/125 µm (850/1300 nm)	50/125 µm (850/1300 nm)	50/125 µm (850/1300 nm)	50/125 µm (850/1300 nm)	Single-mode (1310/1550 nm)
Maximum Attenuation (dB/km)	3.5/1.0	3.5/1.5	3.0/1.5	3.0/1.5	1.0/0.75
Minimum LED Bandwidth (MHz•km)	200/500	500/500	1500/500	1500/500	-
Minimum Effective Modal BW (MHz•km)	220/ - *	510/ - *	2000/ - *	4700/ -	- / -
Serial Gigabit Ethernet Distance (m)	300/550	600/600	1000/600	1000/600	5000/ -

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<b>Serial 10 Gigabit Ethernet Distance (m)</b>	33/ –	82/ –	300/ –	550/ –	10000/40000
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Notes:

\* EMB when deployed with 850 nm 1 Gb/s VCSELs, as predicted by RML BW, FOTP 204.

## OFNP MIC® Plenum Cables



OFNP MIC® Plenum Cables

Corning Cable Systems OFNP MIC® Plenum Cables are perfect for routing cable inside buildings, building backbone, horizontal installations in plenum areas, riser shafts, telecommunications rooms and work stations for all high speed data applications.

### Features & Benefits:

- Gigabit Ethernet Distance Guarantee: 300/550m
- 900µm TBII Buffered Fibers enable easy, consistent stripping
- Small diameter and bend radius allow easy installation in space constrained areas
- Fiber Counts from 2 to 24 strands

- 62.5/125µm as standard offering (50/125µm, and single mode available upon request). Higher fiber counts also available.
- All dielectric cable construction requires no grounding or bonding
- Listed OFNP and FT-6
- Meets NEC Article 770 OFNR, CSA FT-6, ICEA S-83-596
- Flame Resistance NFPA 262(for plenum, riser and general building applications)

## Specifications:

<b>Temperatures</b>	Storage: -40° to +70°C (-40° to +158°F)
	Installation: 0° to +60°C (+32° to +140°F)
	Operation: 0° to +70°C (+32° to +158°F)
<b>Approvals and Listings</b>	National Electrical Code® (NEC®) OFNP, CSA FT-6, ICEA S-83-596
<b>Flame Resistance</b>	NFPA 262 (for plenum, riser and general building applications)

*Corning Cable Systems recommends storing indoor/outdoor 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	Nominal Outer Diameter mm (in)	Nominal Weight kg/km (lb/1000 ft)	Central Member	Maximum Tensile Loads		Minimum Bend Radius	
				Short-Term N (lbf)	Long-Term N (lbf)	Loaded cm (in)	Installed cm (in)
<b>Single Layer</b>							
2	5.0 (0.20)	22 (15.0)	Y	440 (99)	132 (30)	7.5 (3.0)	5.0 (2.0)
4	5.3 (0.21)	26 (17.0)	Y	440 (99)	132 (30)	7.5 (3.0)	5.3 (2.1)
6	5.3 (0.21)	29 (19.0)	Y	440 (99)	132 (30)	7.5 (3.0)	5.3 (2.1)
8	5.9 (0.23)	37 (25.0)	JY	440 (99)	132 (30)	8.9 (3.5)	5.9 (2.3)
<b>Dual Layer</b>							
12 (9/3)	6.1 (0.24)	39 (26.0)	Y	440 (99)	132 (30)	9.1 (3.6)	6.1 (2.4)
18 (12/6)	7.4 (0.29)	59 (40.0)	Y	660 (148)	198 (45)	11.1 (4.4)	7.4 (2.9)
24 (15/9)	7.8 (0.31)	68 (45.0)	Y	660 (148)	198 (45)	11.7 (4.6)	7.8 (3.1)

Central Member Types: Y = Yarn, JY = Jacketed Yarn

Fiber arrangement in dual-layer designs is shown in parentheses. Example: (9/3) = 9 outside fibers around 3 inner fibers

## Transmission Performance

Fiber Code	K	C	S	S	E
Performance Option Code	30	31	80	90	31
Fiber Type	62.5/125 $\mu\text{m}$ (850/1300 nm)	50/125 $\mu\text{m}$ (850/1300 nm)	50/125 $\mu\text{m}$ (850/1300 nm)	50/125 $\mu\text{m}$ (850/1300 nm)	Single-mode (1310/1383/1550 nm)
Maximum Attenuation (dB/km)	3.5/1.0	3.5/1.5	3.0/1.5	3.0/1.5	1.0/1.0/0.75
Minimum LED Bandwidth (MHz·km)	200/500	500/500	1500/500	1500/500	- / - / -
Minimum Effective Modal Bandwidth (MHz·km)	*220/ -	*510/ -	**2000/ -	***4700/ -	- / - / -
Serial Gigabit Ethernet Distance (m)	300/550	600/600	1000/600	1000/600	5000/ - / -
Serial 10 Gigabit Ethernet Distance (m)	33/ -	82/ -	300/ -	****550/ -	10000/40000

\* As predicted by RML BW, per TIA/EIA 455-204 and IEC 60793-1-41, for intermediate performance laser-based systems (up to 1 Gb/s).

\* As predicted by minEMBc, per TIA/EIA 455-220 and IEC 60793-1-49, for high performance laser-based systems (up to 10 Gb/s).

\* As predicted by minEMBc, per TIA/EIA 455-220 and IEC 60793-1-49, for high performance laser-based systems (up to 10 Gb/s).

\* The 550 m distance is equivalent to a 4700 EMB system with standards-compliant transceiver and fiber characteristics, 3.0 dB/km cable attenuation and 1.0 dB total connector loss.

## Riser Cable



OFNP MIC® Cables

Corning Cable Systems OFNP MIC® Cables are perfect for routing cable inside buildings, building backbone, horizontal installations in riser shafts, telecommunications rooms and work stations for all high speed data applications.

## Features & Benefits:

- Gigabit Ethernet Distance Guarantee: 300/550m
- 900µm TBII Buffered Fibers enable easy, consistent stripping
- Small diameter and bend radius allow easy installation in space constrained areas
- Fiber Counts from 2 to 24 strands
- 62.5/125µm as standard offering (50/125µm, and single mode available upon request). Higher fiber counts also available.
- All dielectric cable construction requires no grounding or bonding
- Listed OFNR and FT-4
- Meets NEC Article 770 OFNR, CSA FT-4, ICEA S-83-596
- Flame Resistance UL-1666(for riser and general building applications)
- Available with MSHA (Mine Safety & Health Administration Approval)
- Availability with Approval for TEMPEST applications
- The Corning MIC Riser is used for indoor application

## Specifications:

<b>Temperatures</b>	Storage: -40° to +70°C (-40° to +158°F)
	Installation: -10° to +60°C (+14° to +140°F)
	Operation:-20° to +70°C (-4° to +158°F)

<b>Approvals and Listings</b>	National Electrical Code® (NEC®) OFNR, CSA FT-4, ICEA S-83-596
<b>Flame Resistance</b>	UL-1666 (for riser and general building applications)

*Corning Cable Systems recommends storing indoor/outdoor 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	Nominal Outer Diameter mm (in)	Nominal Weight kg/km (lb/1000 ft)	Central Member	Maximum Tensile Loads		Minimum Bend Radius	
				Short-Term N (lbf)	Long-Term N (lbf)	Loaded cm (in)	Installed cm (in)
<b>Single Layer</b>							

2	4.7 (0.19)	18 (12)	Y	660 (148)	198 (45)	7.1 (2.8)	4.7 (1.9)
4	4.8 (0.19)	21 (14)	Y	660 (148)	198 (45)	7.2 (2.8)	4.8 (1.9)
6	5.5 (0.22)	26 (17)	Y	660 (148)	198 (45)	8.3 (3.3)	5.5 (2.2)
8	6.0 (0.24)	32 (21)	JG	660 (148)	198 (45)	8.9 (3.5)	6.0 (2.3)

### Dual Layer

12 (9/3)	6.3 (0.25)	34 (23)	Y	660 (148)	198 (45)	9.5 (3.7)	6.3 (2.5)
18 (12/6)	7.4 (0.29)	49 (33)	Y	1320 (297)	396 (89)	11.0 (4.3)	7.4 (2.9)
24 (15/9)	8.0 (0.31)	58 (39)	Y	1320 (297)	396 (89)	12.0 (4.6)	8.0 (3.1)

Central Member Types: Y = Yarn, JG = Jacketed GRP

Fiber arrangement in dual-layer designs is shown in parentheses. Example: (9/3) = 9 outside fibers around 3 inner fibers

## Transmission Performance

Fiber Code	K	C	S	S	E
Performance Option Code	30	31	80	90	31
Fiber Type	62.5/125 $\mu$ m (850/1300 nm)	50/125 $\mu$ m (850/1300 nm)	50/125 $\mu$ m (850/1300 nm)	50/125 $\mu$ m (850/1300 nm)	Single-mode (1310/1383/1550 nm)
Maximum Attenuation (dB/km)	3.5/1.0	3.5/1.5	3.0/1.5	3.0/1.5	1.0/1.0/0.75
Minimum LED Bandwidth (MHz·km)	200/500	500/500	1500/500	1500/500	- / - / -
Minimum Effective Modal Bandwidth (MHz·km)	*220/ -	*510/ -	**2000/ -	***4700/ -	- / - / -
Serial Gigabit Ethernet Distance (m)	300/550	600/600	1000/600	1000/600	5000/ - / -
Serial 10 Gigabit Ethernet Distance (m)	33/ -	82/ -	300/ -	****550/ -	10000/40000

\* As predicted by RML BW, per TIA/EIA 455-204 and IEC 60793-1-41, for intermediate performance laser-based systems (up to 1 Gb/s).

\* As predicted by minEMBc, per TIA/EIA 455-220 and IEC 60793-1-49, for high performance laser-based systems (up to 10 Gb/s).

\* As predicted by minEMBc, per TIA/EIA 455-220 and IEC 60793-1-49, for high performance laser-based systems (up to 10 Gb/s).

\* The 550 m distance is equivalent to a 4700 EMB system with standards-compliant transceiver and fiber characteristics, 3.0 dB/km cable attenuation and 1.0 dB total connector loss.

## Corning Cables Systems Ribbon Riser Cables



Corning Cables Systems Ribbon Riser Cables

With fiber counts ranging from 12 to 216, Corning Cables Systems Ribbon Riser Cables are made up of easy to identify 12-fiber ribbons, which are all held together within a central tube.

## Features:

- Individual fibers are easily accessible
- Excellent mass splicing yields, thanks to precise fiber and ribbon geometries
- Also available preconnectorized, to reduce labor costs and simplify field installation
- Can be used with standard ribbon cable hardware and procedures
- 10 Gigabit Ethernet capabilities

## Specifications:

<b>Maximum Tensile Loads</b>	Short-Term: 2700 N (600 lbf) Long-Term: 600 N (135 lbf)
<b>Temperatures</b>	Storage: -40° to +70°C (-40° to +158°F) Installation: -10° to +60°C (+14° to +140°F) Operation: -20° to +70°C (-4° to +158°F)
<b>Approvals and Listings</b>	National Electrical Code® (NEC®) OFNR, CSA FT-4
<b>Common Installation</b>	Indoor vertical riser and general purpose horizontal according to NEC Article 770
<b>Design and Test Criteria</b>	ANSI/ICEA S-83-596

*Corning Cable Systems recommends storing indoor/outdoor 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	Nominal Weight kg/km (lb/1000 ft)	Nominal Outside Diameter – mm (in)	Minimum Bend Radius	
			Loaded cm (in)	Installed cm (in)
12-96	149 (100)	13.3 (0.52)	20.0 (7.9)	13.3 (5.2)
108-216	196 (131)	16.3 (0.64)	24.5 (9.6)	16.3 (6.4)

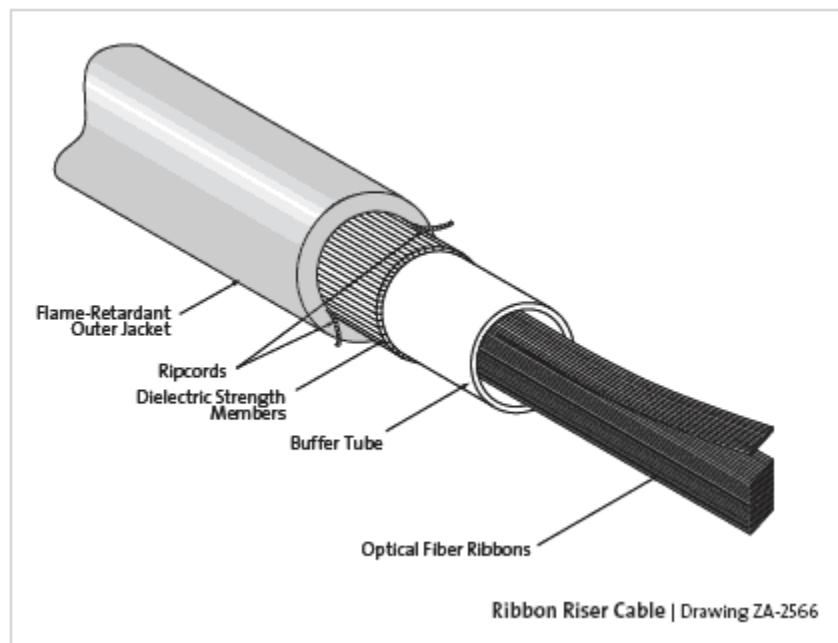
## Transmission Performance

Fiber Code	K	C	S	E
<b>Performance Option Code</b>	<b>30</b>	<b>31</b>	<b>80</b>	<b>01</b>
<b>Fiber Type</b>	62.5/125 µm (850/1300 nm)	50/125 µm (850/1300 nm)	50/125 µm (850/1300 nm)	Single-mode (1310/1383/1550 nm)

<b>Maximum Attenuation (dB/km)</b>	3.5/1.0	3.5/1.5	3.0/1.5	0.4/0.4/0.3
<b>Minimum LED Bandwidth (MHz•km)</b>	200/500	500/500	1500/500	- / - / -
<b>Minimum Effective Modal Bandwidth (MHz•km)</b>	*220/ -	*510/ -	**2000/ -	- / - / -
<b>Serial Gigabit Ethernet Distance (m)</b>	300/550	600/600	1000/600	5000/ - / -
<b>Serial 10 Gigabit Ethernet Distance (m)</b>	33/ -	82/ -	300/ -	10000/40000

\* As predicted by RML BW, per TIA/EIA 455-204 and IEC 60793-1-41, for intermediate performance laser-based systems (up to 1 Gb/s). \*\* As predicted by minEMBC, per TIA/EIA 455-220 and IEC 60793-1-49, for high performance laser-based systems (up to 10 Gb/s).

## Technical Drawing:



Corning Cables Systems Ribbon Riser Cables

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