



AccuRibbon[®] Riser Cable

Reliable Fiber Optic Cable Provides Large Fiber Counts in a Small Core Tube

Do you need a reliable fiber cable for your LAN, telephony, premises, or intrabuilding applications? One that can be used both indoors and outdoors in a variety of conditions? Lucent Technologies AccuRibbon riser cable performs reliably in many environments — including dry conduits below the frost line, steam tunnels between buildings, building entrances, vaults, and building interiors. In addition, AccuRibbon riser cable provides the flame-retardant properties that you need indoors and the ultraviolet (UV) stability that you need outdoors. This UV protection helps prevent damage from strong fluorescent lightning used in central offices. Designed to facilitate quick installation, AccuRibbon riser cable is an excellent choice for your networked applications.

Designed for Superior Performance

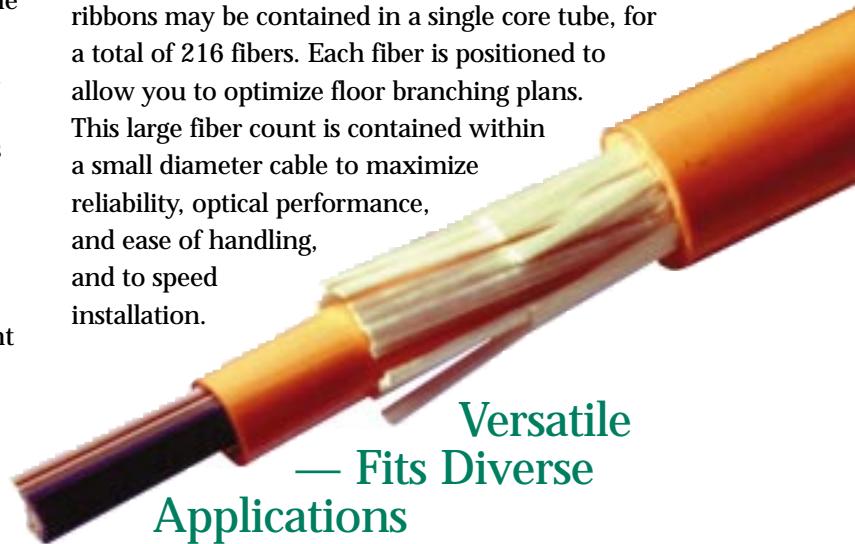
Lucent Technologies AccuRibbon riser cable provides excellent optical, mechanical, and environmental performance in a compact design. Available in both Single-Mode and 62.5/125 micron multimode fiber, AccuRibbon riser cable

reliably delivers the performance you need for your LAN, telephony, premises, or intrabuilding cable applications.

The AccuRibbon core consists of ribbons of 12 fibers bonded together by a matrix material. Up to 18 ribbons may be contained in a single core tube, for a total of 216 fibers. Each fiber is positioned to allow you to optimize floor branching plans. This large fiber count is contained within a small diameter cable to maximize reliability, optical performance, and ease of handling, and to speed installation.

Versatile — Fits Diverse Applications

The high strength-to-weight ratio of our AccuRibbon riser cable means you don't have to treat it with special care — it may be compact and lightweight, but it's also rugged. Strength is provided by strong, non-metallic fiberglass



composite materials positioned in the cable sheath, rather than in the core. This makes our AccuRibbon riser cable the candidate of choice for a variety of size critical applications such as building risers, LAN backbones and distribution, telephony vault to frame applications, and pre-wired shelves, cabinets, and frames. AccuRibbon cable may be spliced with any outside plant cable at the vault or building entrance and may be interconnected to any of the building cables through frames, cabinets, or shelves.

Reliable — Even in Harsh Environments

The rugged, robust design of our AccuRibbon riser cable helps ensure reliability even in hostile environments. AccuRibbon riser cables can be used outdoors in dry conduits below the frost line, or in steam tunnels between buildings. For indoor applications, you can confidently install AccuRibbon riser cable in a wide range of surroundings such as:

- Riser shafts
- Overhead ceilings
- Floors and between floors
- Through walls
- Central offices and vaults

- Utility trays
- Pre-wired shelves

The AccuRibbon core tube and cable jacket are made of flame-retardant polyvinylchloride (PVC). In addition, AccuRibbon riser cable is environmentally friendly — passing the US Environmental Protection Agency's low-lead test. AccuRibbon riser cable delivers the optical performance you need indoors and outdoors — even in hostile temperature and moisture settings.

Improves Installation Productivity

Designed to make splicing quick and easy, our AccuRibbon riser cable improves installation productivity, especially for longer cable lengths. The cable's small diameter and light weight make it easy to handle, while color-coding of cable jackets, ribbons, and fibers makes identification easy. Since AccuRibbon Riser is a dry-core cable, there is no grease/flooding compound or gel filling material to remove, thus saving you time. Even metallic members and metallic strength members have been eliminated from the core design so that fibers can be readily accessed and so end-preparation for splicing is simplified.

AccuRibbon fibers can be individually spliced with cleave-only mechanical, polish mechanical, or fusion splices. It is most effective with mass fusion or mechanical splicing. The flat AccuRibbon cable is ready for mass fusion splicing — saving you the time and expense of building ribbons from separate fibers from loose tubes.

Fibers can be quickly terminated with any of the push-pull or twist-type connectors. For additional convenience and time savings, factory connectorization is available.

Meets or Exceeds Standards

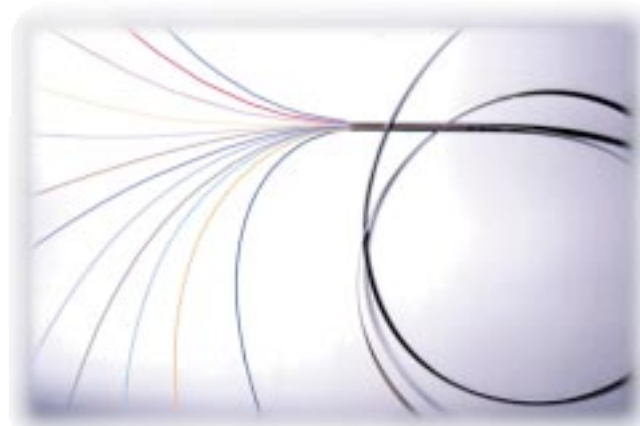
Cable is a major investment, one you want and need to protect — the cable you choose not only needs to meet today's needs, but also needs to meet your future needs. When you choose AccuRibbon riser cable, you get state-of-the-art fiber optic technology that will serve you both now and in the future.

Our AccuRibbon riser cable contains fibers that meet or exceed established *and proposed* standards for LAN, telephony, premises, or intrabuilding cables, such as ANSI-FDDI, EIA/TIA 492 and 568, and IEEE802. The mechanical attributes meet or exceed industry accepted requirements such as ICEA S-83-596 and GR-409-CORE. AccuRibbon cables are tested and qualified in accordance with the industry standard EIA/TIA 455, and are UL® listed, CSA certified, and tested per UL 1666 and CSA OFN FT4. Lucent Technologies AccuRibbon riser cable also carries the OFNR classification as described in the National Electric Code (NEC).

The Compact Cable That Performs

Lucent Technologies AccuRibbon riser cable is a versatile, large-fiber-count cable with a small diameter, making it an excellent choice for a wide variety of LAN, telephony,

premises, and intrabuilding cable applications. Designed to facilitate quick installations, AccuRibbon riser cable helps save you valuable time and installation expense, while providing reliable performance in both indoor and outdoor environments.



Specifications

	12-96 Fibers		108-216 Fibers*	
	Diameter in (mm)	Weight lb/kft (kg/km)	Diameter in (mm)	Weight lb/kft (kg/km)
Size	0.49 (12.4)	96 (143)	0.59 (15.4)	125 (186)
Cable tensile load rating	600 lbs (2,669N)			
Cable minimum bending radius	10 times cable diameter under no load (0-180 lbs) (80N) 20 times cable diameter under maximum loading (600 lbs) (2,669N)			
Fiber	62.5/125 micron multimode Depressed clad Single-Mode Matched clad Single-Mode			
Fiber Dimension	125 micron cladding 250 micron coating			
Fiber Proof Test	100 kpsi			
Fiber Identification	Individually color coded			
Ribbon Dimensions	Height - 0.3 mm (0.012 in.) Width - 3.1 mm (0.123 in.)			
Ribbon Identification	Printed code on each ribbon			
Jacket and Core Material	Polyvinyl Chloride (Flame Retardant)			
Strength Material	Fiberglass			
Operating Temperature	-40°F to 175° (-40°C to 77°C)			
Storage Temperature	-40°F to 175° (-40°C to 77°C)			

*62.5/125 Multimode available in 12-144 fibers (1-12 ribbons)

Cable Performance

Test	Reference
Impact	EIA-RS-455, FOTP-25
Compression	EIA-RS-455, FOTP-41
Flexure	EIA-RS-455, FOTP-104
Tensile Bending	EIA-RS-455, FOTP-33
Temperature Bending	EIA-RS-455, FOTP-37
Twist Testing	EIA-RS-455, FOTP-85
Low Lead Test	EPA-TCLP Test
Flame Test (OFNR)	UL 1666* (NEC 770), CSA FT4

*Exceeds IEEE 383 Tray-Rated Test

Cable Identification

Jacket Color	
62.5/125	Orange
Single-Mode	Yellow

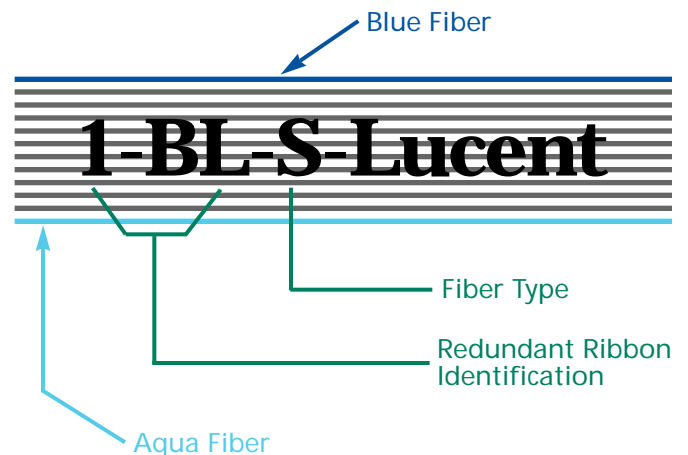
Ribbon Identification

Ribbon Number	Ribbon Marking	Fiber Type
1	1 - BL - X - Lucent	
2	2 - OR - X - Lucent	
3	3 - GR - X - Lucent	
4	4 - BR - X - Lucent	X = S for Single-Mode, Depressed Clad, or Matched Clad fiber
5	5 - SL - X - Lucent	
6	6 - WH - X - Lucent	
7	7 - RD - X - Lucent	
8	8 - BK - X - Lucent	X = 62.5 for 62.5 mm fiber
9	9 - YL - X - Lucent	
10	10 - VI - X - Lucent	
11	11 - RS - X - Lucent	
12*	12 - AQ - X - Lucent	
13	13 - DBL - X - Lucent	
14	14 - DOR - X - Lucent	
15	15 - DGR - X - Lucent	
16	16 - DBR - X - Lucent	
17	17 - DSL - X - Lucent	
18	18 - DWH - X - Lucent	

*62.5 mm Multimode AccuRibbon cables are available with up to 12 AccuRibbon units (144 fibers).

Fiber Identification

Fiber Identification in 12 Ribbons			
Color Code	Fiber Position	Color Code	Fiber Position
Blue	1	Red	7
Orange	2	Black	8
Green	3	Yellow	9
Brown	4	Violet	10
Slate	5	Rose	11
White	6	Aqua	12



Fiber Characteristics

Multimode* Fiber	Operating Wavelength	Maximum Attenuation	Minimum Bandwidth
62.5/125 microns	850 nm	3.4 dB/km	200 MHz-km
	1300 nm	1.0 dB/km	500 MHz-km

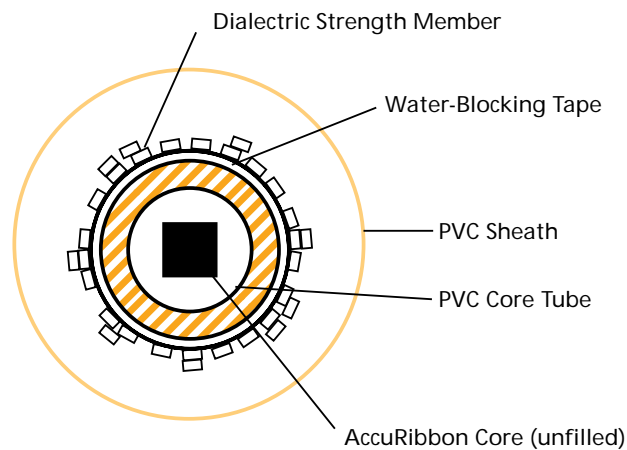
*Numerical Aperture: 0.275

Single-Mode Fiber	Operating Wavelength	Maximum Attenuation	Minimum Dispersion
Depressed Clad	1310 nm	0.4 dB/km	2.8 ps/nm-km
8.3/125 microns	1550 nm	0.3 dB/km	18.0 ps/nm-km

Zero Dispersion Wavelength: 1300 nm – 1320 nm
Mode Field Diameter: 8.8 microns @ 1310 nm
 9.7 microns @ 1550 nm

Single-Mode Fiber	Operating Wavelength	Maximum Attenuation	Minimum Dispersion
Matched Clad	1310 nm	0.5 dB/km	3.5 ps/nm-km
8.3/125 microns	1550 nm	0.5 dB/km	18.0 ps/nm-km

Zero Dispersion Wavelength: 1300 nm – 1322 nm
Mode Field Diameter: 9.3 microns @ 1310 nm
 10.5 microns @ 1550 nm



Cable Cross Section

Matched Clad Single-Mode

Product Code	COMCODE
7FLX-012	107 437 972
7FLX-024	107 437 980
7FLX-036	107 437 998
7FLX-048	107 438 004
7FLX-060	107 438 012
7FLX-072	107 438 020
7FLX-084	107 438 038
7FLX-096	107 438 046
7FLX-108	107 438 053
7FLX-120	107 438 061
7FLX-132	107 438 079
7FLX-144	107 438 087
7FLX-156	107 438 095
7FLX-168	107 438 103
7FLX-180	107 438 111
7FLX-192	107 438 129
7FLX-204	107 438 137
7FLX-216	107 438 145

62.5/125 Multimode

Product Code	COMCODE
3FLX-012	106 222 144
3FLX-024	106 222 151
3FLX-036	106 222 169
3FLX-048	106 222 177
3FLX-060	106 222 185
3FLX-072	106 222 193
3FLX-084	106 222 201
3FLX-096	106 222 219
3FLX-108	106 222 227
3FLX-120	106 222 235
3FLX-132	106 222 243
3FLX-144	106 222 250

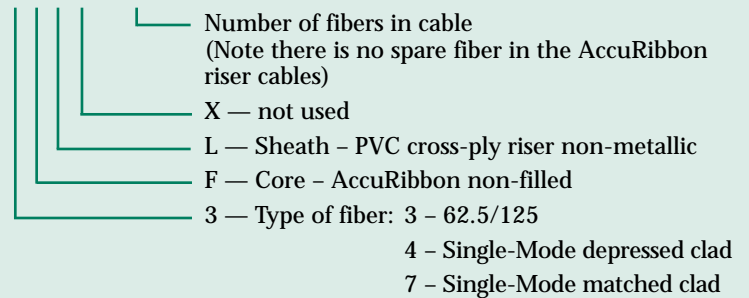
Depressed Clad Single-Mode

Product Code	COMCODE
4FLX-012	106 222 318
4FLX-024	106 222 326
4FLX-036	106 222 334
4FLX-048	106 222 342
4FLX-060	106 222 359
4FLX-072	106 222 367
4FLX-084	106 222 375
4FLX-096	106 222 383
4FLX-108	106 222 391
4FLX-120	106 222 409
4FLX-132	106 223 209
4FLX-144	106 223 191
4FLX-156	106 223 183
4FLX-168	106 223 175
4FLX-180	106 223 167
4FLX-192	106 223 159
4FLX-204	106 223 142
4FLX-216	106 226 163

Ordering Information

The following chart breaks down the information contained in the product code. Typical reel lengths are 8,000 feet to 14,000 feet.

3 F L X - 012



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Visit our web site at <http://www.lucent.com>

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