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Fire Alarm Cable
Security Control Cable
Coaxial Cable
Copper Data Cable

UPDATED: March 27, 2012



FIRE ALARM AND SECURITY Product Guide



Our Ongoing Commitment to Quality, Value and On-Time Delivery

Superior Essex is a global leader in the design, manufacture and supply of communications cable and wire for telecommunications service providers, businesses and residences. Headquartered in Atlanta (Georgia), we have a 55-year history of designing high performance products for the evolving technical needs of our customers, which include many of the largest telecom service providers in the world. Continuing this tradition, our new Fire Alarm and Security Control portfolio offers cable solutions for all major security and safety applications.



FIRE ALARM CABLES

Our various Fire Alarm cables are manufactured for use in applications such as:

- Smoke detectors
- Strobes
- Pull stations
- Addressable controls
- Circuits controlled or powered by fire alarm systems
- Sprinkler and sprinkler supervisory systems
- Alarm notifications
- Sirens
- Microprocessors
- Voice communications



SECURITY CONTROL CABLES

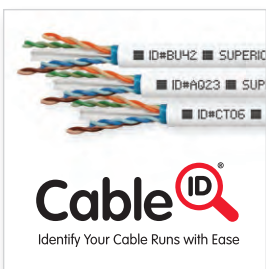
Our Security Control cables are manufactured for use in applications such as:

- Intercom systems
- Burglar alarm systems
- Card readers
- Prox sensors
- Audio public address systems
- Closed-circuit television (CCTV)
- Locking power and retinal scanners
- Gate access
- Background music
- Door controllers
- Key pads



DATA CABLES (FOR IP SECURITY NETWORKS)

Superior Essex offers a wide variety of optical fiber cables and non-shielded and shielded Category 6A, 6 and 5e cables used in IP Security networks. The most common data cables used for IP security networks are included in this catalog, but many other data cable designs are available.



SAVE TIME, SAVE MONEY

With time-saving and convenience installation features such as CableID®, QuickCount® and an accessible ripcord, these cables provide real value over generic versions.

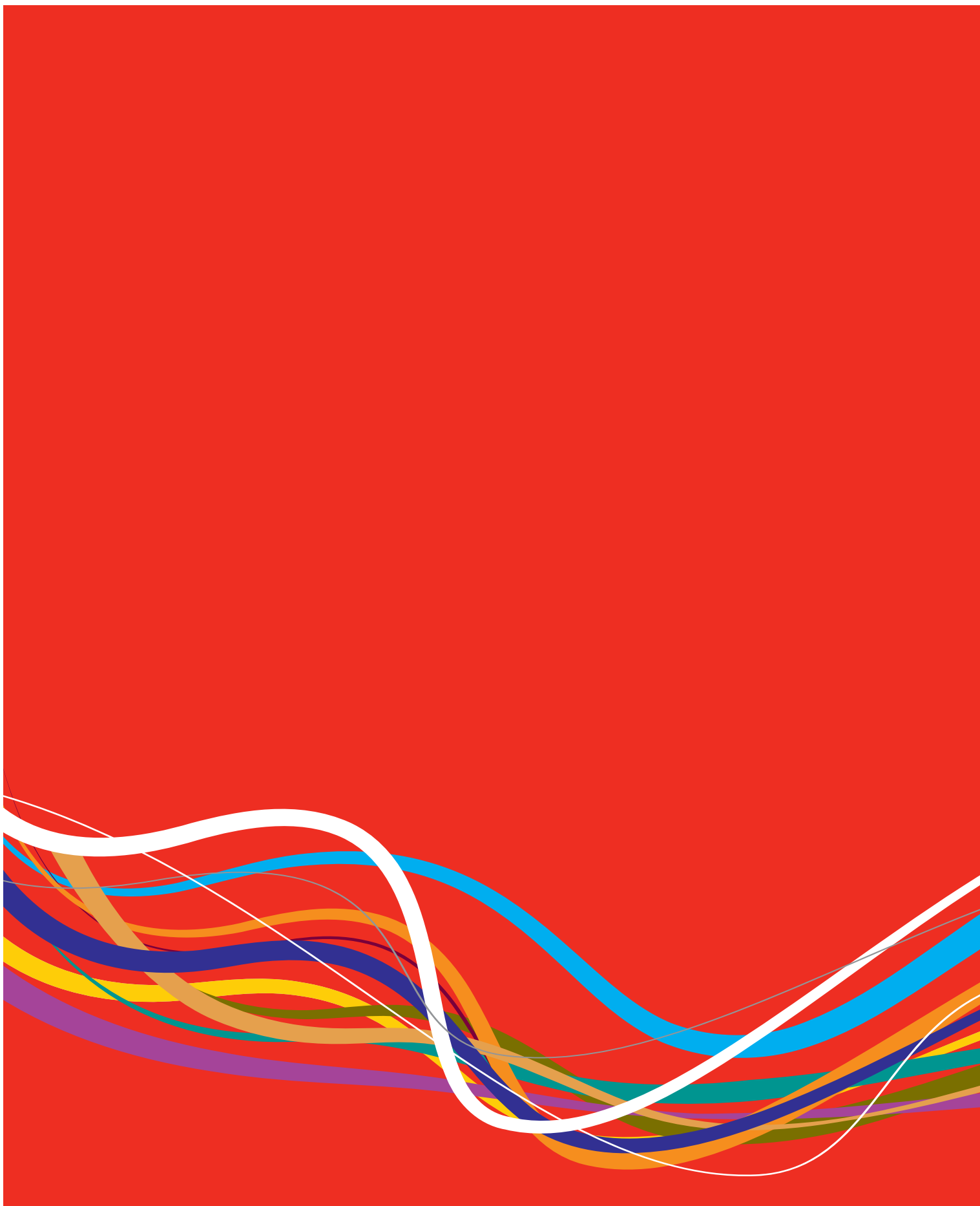
A one-year product replacement warranty ensures that the cables will be free from material defects in workmanship and materials, and that they will conform to specifications.



TECHNICAL SUPPORT IS A TOP PRIORITY

We are available to help you choose the correct Fire Alarm and Security Control cable for your application. To reach a trained and knowledgeable Inside Sales representative who can answer questions about the product line and help you place an order, call 800.551.8948. Additional technical assistance is available from the Superior Essex Technical Support Group by calling 877.263.2818.

Superior Essex makes every effort to ensure the accuracy of the information contained in this catalogue at the time of publication. Specifications, packaging and part numbers detailed within are subject to change. For the most up to date information, please contact Superior Essex at 770.657.6000 or visit SuperiorEssex.com/Comm. © 2012 Superior Essex, Inc.





PRODUCT INFO

Fire Alarm Cable

Fire Alarm Power Limited, Non-Shielded/Shielded, Riser/Plenum 6

Security Control Cable

Security Control, Non-Shielded Power Limited, Riser/Plenum 8

Security Control, Shielded Power Limited, Riser/Plenum 10

Coaxial Cable

Coax RG-6, Quad Shield
CM/CATV, CMR/CATVR, CMP/CL2P, Interlock Armored CMR. 12

Coax RG-6, 80% Shield CMP/CL2P. 14

Coax RG-6, 60% Shield CM/CATV 15

Coax RG-59, 95% Shield CMR/CL2R, CMP/CL2P. 16

Copper Data Cable

Marathon LAN® Category 5e CMR/CMP. 18

Category 5e+ ScTP (F/UTP) CMR/CMP 19

Category 5e Outdoor CMR/CMX. 20

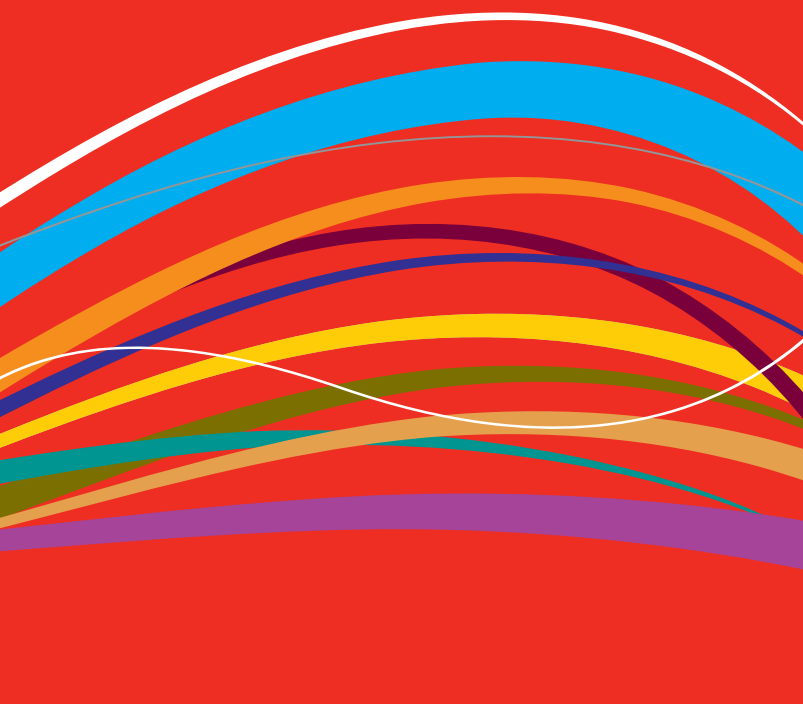
Category 5e ScTP (F/UTP) Outdoor CMR/CMX. 21

TECHNICAL INFO

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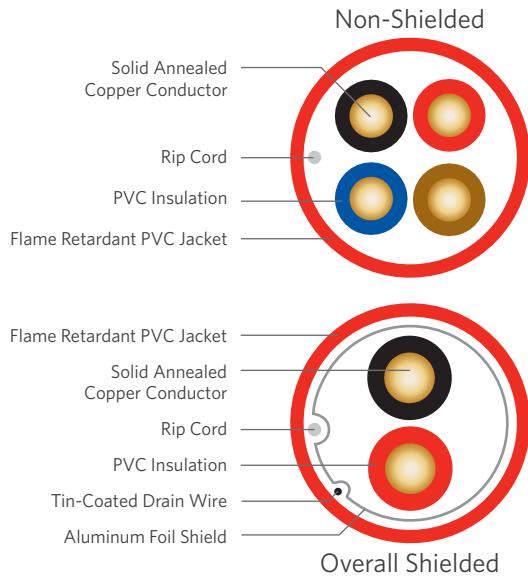
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Fire Alarm

Power Limited, Non-Shielded/Shielded, Riser/Plenum



SPECIFICATIONS

Conductor Count	Available with 2, 4, 6 or 8 conductors
Conductor	Fully annealed, solid bare copper
AWG (mm)	Available in 12 (2.05) through 22 (0.64)
Insulation	PVC
Insulation Colors	Conductor 1: Black Conductor 2: Red Conductor 3: Brown Conductor 4: Blue Conductor 5: Orange Conductor 6: Yellow Conductor 7: Violet Conductor 8: Gray
Shield (optional)	1-mil overall aluminum polyester foil shield with 24 AWG (0.51 mm) solid tinned copper drain wire
Jacket	Riser: Red, Sunlight Resistant, Flame Retardant (FR) PVC Plenum: Red, FR PVC
Package	Black, ribbed, plastic recyclable spool or Reel-in-a-Box
Performance Compliance	ASTM B-3 NEC Article 760 NEC Article 725 NEC Article 800 UL 1424 FPLR/FPLP UL 13 CL3R/CL3P UL 444 CMR/CMP* UL 1666 NFPA 262 California State Fire Marshall RoHS-compliant
NRTL Programs	UL Listed CMR, CL3R, FPLR UL Listed CMP, CL3P, FPLP

*CMR/CMP listing does not apply to 12 AWG and 14 AWG Superior Essex Fire Alarm cables.

PRODUCT DESCRIPTION

Fire Alarm cables are used for a variety of life safety devices, and are required to comply with many codes and standards. Superior Essex has grouped its fire alarm cable products into just two categories for simplicity: riser and plenum. All riser listed fire alarm cables provide full compliance to NEC Article 760, NEC Article 725, FPLR and CL3R. All plenum listed fire alarm cables provide compliance to NEC Article 760, NEC Article 725, FPLP and CL3P. Shielded and non-shielded versions are offered for a wide range of conductor counts and gauges. All cables are power limited rated for 300V.

This cable series also features two popular time saving features from Superior Essex: CableID® and QuickCount®.

APPLICATIONS

- Smoke detectors
- Alarm notification
- Strobes
- Sirens
- Pull stations
- Microprocessors
- Addressable control systems
- Circuits controlled and powered by the fire alarm system
- Sprinkler and sprinkler supervisory systems

FEATURES

- Red color jacket
- Non-plenum, riser rated
- Plenum rated
- Sunlight resistant, riser jacket
- Jacket rip cord
- CableID alpha numeric code printed every 2 feet
- QuickCount marking system in feet and meters
- Black, plastic recyclable spool packaging
- Shielded option available

BENEFITS

- Identified as universal fire alarm cable
- Simplifies selection with multiple listings (FPL, FPLR, CL3R and CMR*)
- Simplifies selection with multiple listings (FPLP, CL3P and CMP*)
- Withstands direct sunlight exposure
- Easy to open; saves cable preparation time
- Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
- Saves on installation time
- Provides remaining length of cable on spool resulting in less scrap
- Rugged, robust and easy to handle
- Electromagnetic Interference (EMI) protection

ENVIRONMENTAL SPECIFICATIONS

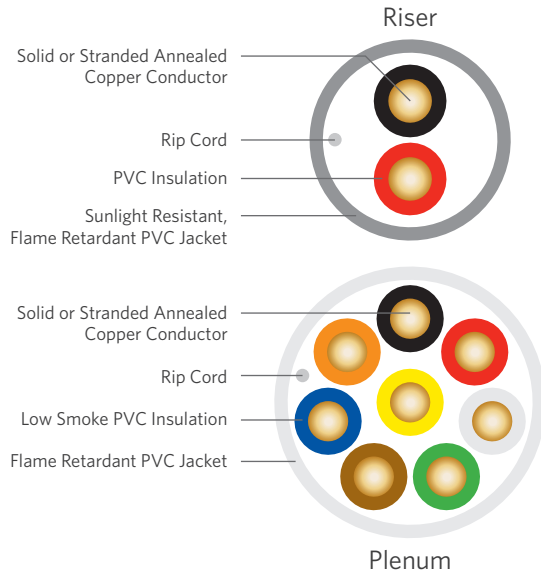
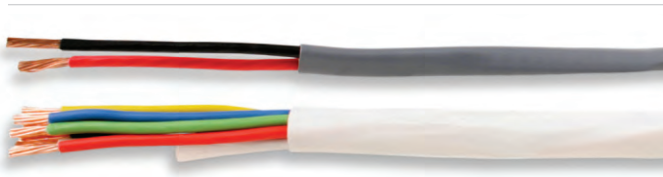
	Celsius	Fahrenheit
Operation	-20°C to +75°C	-4°F to 167°F
Installation	0°C to +65°C	32°F to 149°F

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Listing	Part Number	Conductor Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package	Spool Size F x T x D in
Non-Shielded								
FPLR/CL3R	2F-413-91	2	12 (2.05)	0.25 (6.3)	52 (78)	500 (152)	Spool	12 x 9 x 5
FPLR/CL3R	2F-312-91	2	14 (1.63)	0.21 (5.4)	36 (53)	1,000 (305)	Spool	12 x 9 x 5
FPLR/CL3R	2F-314-91	2	14 (1.63)	0.21 (5.4)	36 (53)	1,000 (305)	Reel-in-a-Box	-
FPLR/CL3R	2F-333-91	4	14 (1.63)	0.25 (6.4)	66 (99)	500 (152)	Spool	12 x 9 x 5
FPLR/CL3R	2F-332-91	4	14 (1.63)	0.25 (6.4)	66 (99)	1,000 (305)	Spool	12 x 9 x 5
FPLR/CL3R/CMR	2F-212-91	2	16 (1.29)	0.17 (4.4)	23 (34)	1,000 (305)	Spool	12 x 9 x 5
FPLR/CL3R/CMR	2F-214-91	2	16 (1.29)	0.17 (4.4)	23 (34)	1,000 (305)	Reel-in-a-Box	-
FPLR/CL3R/CMR	2F-232-91	4	16 (1.29)	0.20 (5.1)	42 (63)	1,000 (305)	Spool	12 x 9 x 5
FPLR/CL3R/CMR	2F-234-91	4	16 (1.29)	0.20 (5.1)	42 (63)	1,000 (305)	Reel-in-a-Box	-
FPLR/CL3R/CMR	2F-112-91	2	18 (1.02)	0.15 (3.8)	16 (24)	1,000 (305)	Spool	12 x 4.5 x 5
FPLR/CL3R/CMR	2F-114-91	2	18 (1.02)	0.15 (3.8)	16 (24)	1,000 (305)	Reel-in-a-Box	-
FPLR/CL3R/CMR	2F-132-91	4	18 (1.02)	0.17 (4.4)	29 (43)	1,000 (305)	Spool	12 x 9 x 5
FPLR/CL3R/CMR	2F-134-91	4	18 (1.02)	0.17 (4.4)	29 (43)	1,000 (305)	Reel-in-a-Box	-
FPLR/CL3R/CMR	2F-142-91	6	18 (1.02)	0.21 (5.4)	42 (63)	1,000 (305)	Spool	12 x 9 x 5
FPLR/CL3R/CMR	2F-512-91	2	22 (0.64)	0.11 (2.9)	8 (12)	1,000 (305)	Spool	12 x 4.5 x 5
FPLR/CL3R/CMR	2F-532-91	4	22 (0.64)	0.13 (3.3)	14 (20)	1,000 (305)	Spool	12 x 4.5 x 5
Overall Shielded								
FPLP/CL3P	2F-413-93	2	12 (2.05)	0.27 (6.8)	59 (88)	500 (152)	Spool	12 x 9 x 5
FPLP/CL3P	2F-312-93	2	14 (1.63)	0.23 (5.9)	41 (62)	1,000 (305)	Spool	14 x 11 x 5
FPLP/CL3P	2F-314-93	2	14 (1.63)	0.23 (5.9)	41 (62)	1,000 (305)	Reel-in-a-Box	-
FPLP/CL3P	2F-333-93	4	14 (1.63)	0.27 (6.9)	73 (109)	500 (152)	Spool	12 x 9 x 5
FPLP/CL3P/CMP	2F-212-93	2	16 (1.29)	0.17 (4.4)	24 (35)	1,000 (305)	Spool	12 x 9 x 5
FPLP/CL3P/CMP	2F-214-93	2	16 (1.29)	0.17 (4.4)	24 (35)	1,000 (305)	Reel-in-a-Box	-
FPLP/CL3P/CMP	2F-232-93	4	16 (1.29)	0.20 (5.1)	43 (64)	1,000 (305)	Spool	12 x 9 x 5
FPLP/CL3P/CMP	2F-234-93	4	16 (1.29)	0.20 (5.1)	43 (64)	1,000 (305)	Reel-in-a-Box	-
FPLP/CL3P/CMP	2F-112-93	2	18 (1.02)	0.15 (3.8)	17 (25)	1,000 (305)	Spool	12 x 4.5 x 5
FPLP/CL3P/CMP	2F-114-93	2	18 (1.02)	0.15 (3.8)	17 (25)	1,000 (305)	Reel-in-a-Box	-
FPLP/CL3P/CMP	2F-132-93	4	18 (1.02)	0.17 (4.4)	30 (44)	1,000 (305)	Spool	12 x 9 x 5
FPLP/CL3P/CMP	2F-134-93	4	18 (1.02)	0.17 (4.4)	30 (44)	1,000 (305)	Reel-in-a-Box	-
FPLP/CL3P/CMP	2F-142-93	6	18 (1.02)	0.21 (5.4)	43 (64)	1,000 (305)	Spool	12 x 9 x 5
FPLP/CL3P/CMP	2F-153-93	8	18 (1.02)	0.23 (5.8)	56 (83)	500 (152)	Spool	12 x 9 x 5
FPLP/CL3P/CMP	2F-512-93	2	22 (0.64)	0.11 (2.9)	9 (13)	1,000 (305)	Spool	12 x 4.5 x 5
FPLP/CL3P/CMP	2F-532-93	4	22 (0.64)	0.13 (3.3)	14 (21)	1,000 (305)	Spool	12 x 4.5 x 5
Overall Shielded								
FPLR/CL3R	2F-413-92	2	12 (2.05)	0.26 (6.5)	52 (78)	500 (152)	Spool	12 x 9 x 5
FPLR/CL3R	2F-312-92	2	14 (1.63)	0.22 (5.7)	36 (54)	1,000 (305)	Spool	12 x 9 x 5
FPLR/CL3R	2F-333-92	4	14 (1.63)	0.26 (6.6)	67 (99)	500 (152)	Spool	12 x 9 x 5
FPLR/CL3R	2F-332-93	4	14 (1.63)	0.26 (6.6)	67 (99)	1,000 (305)	Spool	12 x 9 x 5
FPLR/CL3R/CMR	2F-212-92	2	16 (1.29)	0.18 (4.6)	24 (35)	1,000 (305)	Spool	12 x 9 x 5
FPLR/CL3R/CMR	2F-214-92	2	16 (1.29)	0.18 (4.6)	24 (35)	1,000 (305)	Reel-in-a-Box	-
FPLR/CL3R/CMR	2F-232-92	4	16 (1.29)	0.21 (5.3)	43 (63)	1,000 (305)	Spool	12 x 9 x 5
FPLR/CL3R/CMR	2F-112-92	2	18 (1.02)	0.16 (4.1)	17 (25)	1,000 (305)	Spool	12 x 9 x 5
FPLR/CL3R/CMR	2F-132-92	4	18 (1.02)	0.18 (4.7)	29 (44)	1,000 (305)	Spool	12 x 9 x 5
FPLR/CL3R/CMR	2F-142-92	6	18 (1.02)	0.22 (5.6)	42 (63)	1,000 (305)	Spool	12 x 9 x 5
FPLR/CL3R/CMR	2F-512-92	2	22 (0.64)	0.12 (3.2)	9 (14)	1,000 (305)	Spool	12 x 4.5 x 5
FPLR/CL3R/CMR	2F-532-92	4	22 (0.64)	0.14 (3.6)	15 (22)	1,000 (305)	Spool	12 x 4.5 x 5
Overall Shielded								
FPLP/CL3P	2F-413-94	2	12 (2.05)	0.28 (7.1)	59 (88)	500 (152)	Spool	12 x 9 x 5
FPLP/CL3P	2F-312-94	2	14 (1.63)	0.24 (6.2)	42 (62)	1,000 (305)	Spool	14 x 11 x 5
FPLP/CL3P	2F-333-94	4	14 (1.63)	0.28 (7.1)	73 (109)	500 (152)	Spool	12 x 9 x 5
FPLP/CL3P/CMP	2F-212-94	2	16 (1.29)	0.18 (4.6)	24 (36)	1,000 (305)	Spool	12 x 9 x 5
FPLP/CL3P/CMP	2F-214-94	2	16 (1.29)	0.18 (4.6)	24 (36)	1,000 (305)	Reel-in-a-Box	-
FPLP/CL3P/CMP	2F-232-94	4	16 (1.29)	0.21 (5.3)	43 (64)	1,000 (305)	Spool	12 x 9 x 5
FPLP/CL3P/CMP	2F-112-94	2	18 (1.02)	0.16 (4.1)	17 (26)	1,000 (305)	Spool	12 x 9 x 5
FPLP/CL3P/CMP	2F-132-94	4	18 (1.02)	0.18 (4.7)	30 (45)	1,000 (305)	Spool	12 x 9 x 5
FPLP/CL3P/CMP	2F-142-94	6	18 (1.02)	0.22 (5.6)	43 (64)	1,000 (305)	Spool	12 x 9 x 5
FPLP/CL3P/CMP	2F-512-94	2	22 (0.64)	0.12 (3.2)	9 (14)	1,000 (305)	Spool	12 x 4.5 x 5
FPLP/CL3P/CMP	2F-532-94	4	22 (0.64)	0.14 (3.6)	15 (22)	1,000 (305)	Spool	12 x 4.5 x 5

Security Control, Non-Shielded

Power Limited, Riser/Plenum



SPECIFICATIONS

Conductor Count	Available with 2 through 12 conductors
Conductor	Fully annealed, solid or stranded bare copper
AWG (mm)	Available in 12 (2.05) through 22 (0.64)
Insulation	Low smoke PVC
Insulation Colors	Conductor 1: Black Conductor 2: Red Conductor 3: White Conductor 4: Green Conductor 5: Brown Conductor 6: Blue Conductor 7: Orange Conductor 8: Yellow Conductor 9: Violet Conductor 10: Gray Conductor 11: Pink Conductor 12: Tan
Jacket	Riser: Gray, Sunlight Resistant, Flame Retardant (FR) PVC Plenum: White, FR PVC
Package	Black, ribbed, plastic recyclable spool or Reel-in-a-Box
Performance Compliance	ASTM B-3 and B-8 NEC Article 760 NEC Article 725 NEC Article 800 UL 1424 FPLR/FPLP UL 13 CL3R/CL3P UL 444 CMR/CMP* UL 1666 NFPA 262 California State Fire Marshall RoHS-compliant
NRTL Programs	UL Listed CMR, CL3R, FPLR UL Listed CMP, CL3P, FPLP

*CMR/CMP listing does not apply to 12 AWG and 14 AWG Superior Essex Security Control cables.

PRODUCT DESCRIPTION

Security Control cables are used for a variety of building control and audio applications. The non-shielded security control cable series is ideal for environments where electromagnetic interference (EMI) is not a concern or the cable is not required to be grounded. All riser listed security control cables provide compliance to NEC Article 760, NEC Article 725, FPLR and CL3R. All plenum listed security control cables provide compliance to NEC Article 760, NEC Article 725, FPLP and CL3P. All security control cables are power limited rated for 300V.

This cable series also features two popular time saving features from Superior Essex: CableID® and QuickCount®.

APPLICATIONS

- Intercom
- Security
- Audio, public address system, speakers
- Burglar alarm system
- Telephone stations
- Background music
- Sensors

FEATURES

- Non-plenum, riser rated
- Plenum rated
- Sunlight resistant, riser jacket
- Jacket rip cord
- CableID alpha numeric code printed every 2 feet
- QuickCount marking system in feet and meters
- Black, plastic recyclable spool packaging

BENEFITS

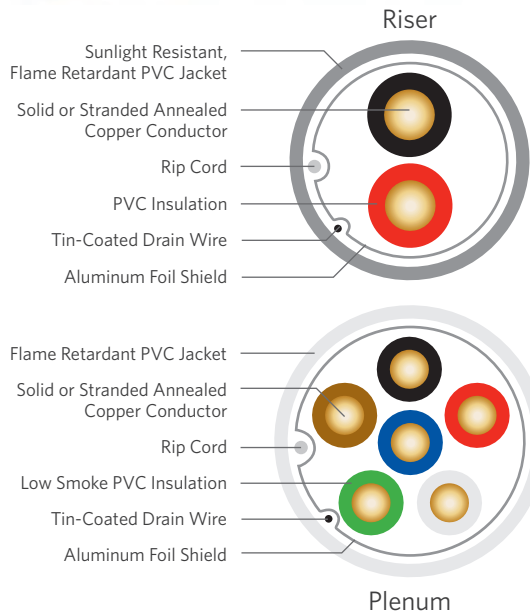
- Simplifies selection with multiple listings (FPL, FPLR, CL3R and CMR*)
- Simplifies selection with multiple listings (FPLP, CL3P and CMP*)
- Withstands direct sunlight exposure
- Easy to open; saves cable preparation time
- Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
- Saves on installation time
- Provides remaining length of cable on spool resulting in less scrap
- Rugged, robust and easy to handle

ENVIRONMENTAL SPECIFICATIONS

	Celsius	Fahrenheit
Operation	-20°C to +75°C	-4°F to 167°F
Installation	0°C to +65°C	32°F to 149°F

Security Control, Shielded

Power Limited, Riser/Plenum



SPECIFICATIONS

Conductor Count	Available with 2 through 12 conductors
Conductor	Fully annealed, solid or stranded bare copper
AWG (mm)	Available in 12 (2.05) through 22 (0.64)
Insulation	PVC
Insulation Colors	Conductor 1: Black Conductor 2: Red Conductor 3: White Conductor 4: Green Conductor 5: Brown Conductor 6: Blue Conductor 7: Orange Conductor 8: Yellow Conductor 9: Violet Conductor 10: Gray Conductor 11: Pink Conductor 12: Tan
Shield	1-mil overall aluminum polyester foil shield with 24 AWG (0.51 mm) solid tinned copper drain wire
Jacket	Riser: Gray, Sunlight Resistant, Flame Retardant (FR) PVC Plenum: White, FR PVC
Package	Black, ribbed, plastic recyclable spool or Reel-in-a-Box
Performance Compliance	ASTM B-3 and B-8 NEC Article 760 NEC Article 725 NEC Article 800 UL 1424 FPLR/FPLP UL 13 CL3R/CL3P UL 444 CMR/CMP* UL 1666 NFPA 262 California State Fire Marshall RoHS-compliant
NRTL Programs	UL Listed CMR, CL3R, FPLR UL Listed CMP, CL3P, FPLP

*CMR/CMP listing does not apply to 12 AWG and 14 AWG Superior Essex Security Control cables.

PRODUCT DESCRIPTION

Security Control cables are used for a variety building control and audio applications. The security control, shielded cable series is ideal for environments where electromagnetic interference (EMI) is a concern or the cable is required to be grounded. All riser listed security control cables provide compliance to NEC Article 760, NEC Article 725, FPLR and CL3R. All plenum listed security control cables provide compliance to NEC Article 760, NEC Article 725, FPLP and CL3P. All security control cables are power limited rated for 300V.

This cable series also features two popular time saving features from Superior Essex: CableID® and QuickCount®.

APPLICATIONS

- Intercom
- Security
- Audio, public address system, speakers
- Burglar alarm system
- Telephone stations
- Background music

FEATURES

- Non-plenum, riser rated
- Plenum rated
- Sunlight resistant, riser jacket
- Jacket rip cord
- Overall shield
- CableID alpha numeric code printed every 2 feet
- QuickCount marking system in feet and meters
- Black, plastic recyclable spool packaging

BENEFITS

- Simplifies selection with multiple listings (FPL, FPLR, CL3R and CMR*)
- Simplifies selection with multiple listings (FPLP, CL3P and CMP*)
- Withstands direct sunlight exposure
- Easy to open; saves cable preparation time
- Electromagnetic Interference (EMI) protection
- Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
- Saves on installation time
- Provides remaining length of cable on spool resulting in less scrap
- Rugged, robust and easy to handle

ENVIRONMENTAL SPECIFICATIONS

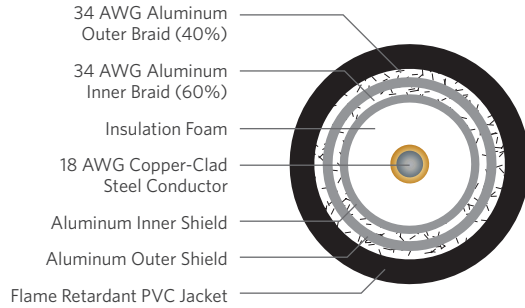
	Celsius	Fahrenheit
Operation	-20°C to +75°C	-4°F to 167°F
Installation	0°C to +65°C	32°F to 149°F

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Listing	Part Number	Conductor Count	AWG (mm)	Conductor Type	Jacket Color	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package	Spool Size F x T x D in
FPLR/CL3R	2F-F13-32	2	12 (2.32)	19 x 0.0185	Gray	0.28 (7.1)	53 (78)	500 (152)	Spool	12 x 9 x 5
FPLR/CL3R	2F-E12-32	2	14 (1.85)	19 x 0.0147	Gray	0.24 (6.1)	36 (54)	1,000 (305)	Spool	14 x 11 x 5
FPLR/CL3R	2F-E33-32	4	14 (1.85)	19 x 0.0147	Gray	0.28 (7.2)	67 (100)	500 (152)	Spool	12 x 9 x 5
FPLR/CL3R/CMR	2F-D12-32	2	16 (1.46)	19 x 0.0117	Gray	0.20 (5.0)	24 (36)	1,000 (305)	Spool	12 x 9 x 5
FPLR/CL3R/CMR	2F-D14-32	2	16 (1.46)	19 x 0.0117	Gray	0.20 (5.0)	24 (36)	1,000 (305)	Reel-in-a-Box	-
FPLR/CL3R/CMR	2F-D32-32	4	16 (1.46)	19 x 0.0117	Gray	0.23 (5.7)	43 (64)	1,000 (305)	Spool	14 x 11 x 5
FPLR/CL3R/CMR	2F-C12-32	2	18 (1.16)	7 x 26 AWG	Gray	0.17 (4.3)	17 (26)	1,000 (305)	Spool	12 x 9 x 5
FPLR/CL3R/CMR	2F-C14-32	2	18 (1.16)	7 x 26 AWG	Gray	0.17 (4.3)	17 (26)	1,000 (305)	Reel-in-a-Box	-
FPLR/CL3R/CMR	2F-C32-32	4	18 (1.16)	7 x 26 AWG	Gray	0.20 (5.0)	30 (45)	1,000 (305)	Spool	12 x 9 x 5
FPLR/CL3R/CMR	2F-C34-32	4	18 (1.16)	7 x 26 AWG	Gray	0.20 (5.0)	30 (45)	1,000 (305)	Reel-in-a-Box	-
FPLR/CL3R/CMR	2F-C42-32	6	18 (1.16)	7 x 26 AWG	Gray	0.24 (6.0)	43 (64)	1,000 (305)	Spool	14 x 11 x 5
FPLR/CL3R/CMR	2F-C44-32	6	18 (1.16)	7 x 26 AWG	Gray	0.24 (6.0)	43 (64)	1,000 (305)	Reel-in-a-Box	-
FPLR/CL3R/CMR	2F-C53-32	8	18 (1.16)	7 x 26 AWG	Gray	0.26 (6.5)	56 (83)	500 (152)	Spool	12 x 9 x 5
FPLR/CL3R/CMR	2F-C52-32	8	18 (1.16)	7 x 26 AWG	Gray	0.26 (6.5)	56 (83)	1,000 (305)	Spool	14 x 11 x 5
FPLR/CL3R/CMR	2F-C73-32	12	18 (1.16)	7 x 26 AWG	Gray	0.32 (8.0)	82 (122)	500 (152)	Spool	14 x 11 x 5
FPLR/CL3R/CMR	2F-B12-32	2	20 (0.92)	7 x 28 AWG	Gray	0.15 (3.7)	12 (19)	1,000 (305)	Spool	12 x 4.5 x 5
FPLR/CL3R/CMR	2F-B32-32	4	20 (0.92)	7 x 28 AWG	Gray	0.17 (4.3)	21 (31)	1,000 (305)	Spool	12 x 9 x 5
FPLR/CL3R/CMR	2F-A12-32	2	22 (0.73)	7 x 30 AWG	Gray	0.13 (3.3)	9 (14)	1,000 (305)	Spool	12 x 4.5 x 5
FPLR/CL3R/CMR	2F-A32-32	4	22 (0.73)	7 x 30 AWG	Gray	0.15 (3.8)	15 (22)	1,000 (305)	Spool	12 x 4.5 x 5
FPLR/CL3R/CMR	2F-A34-32	4	22 (0.73)	7 x 30 AWG	Gray	0.15 (3.8)	15 (22)	1,000 (305)	Reel-in-a-Box	-
FPLR/CL3R/CMR	2F-A42-32	6	22 (0.73)	7 x 30 AWG	Gray	0.18 (4.5)	21 (31)	1,000 (305)	Spool	12 x 9 x 5
FPLR/CL3R/CMR	2F-A44-32	6	22 (0.73)	7 x 30 AWG	Gray	0.18 (4.5)	21 (31)	1,000 (305)	Reel-in-a-Box	-
FPLR/CL3R/CMR	2F-A52-32	8	22 (0.73)	7 x 30 AWG	Gray	0.19 (4.8)	26 (39)	1,000 (305)	Spool	12 x 9 x 5
FPLR/CL3R/CMR	2F-A62-32	10	22 (0.73)	7 x 30 AWG	Gray	0.22 (5.5)	32 (48)	1,000 (305)	Spool	12 x 9 x 5
FPLR/CL3R/CMR	2F-A72-32	12	22 (0.73)	7 x 30 AWG	Gray	0.23 (5.9)	38 (56)	1,000 (305)	Spool	14 x 11 x 5
FPLR/CL3R/CMR	2F-512-32	2	22 (0.64)	Solid	Gray	0.12 (3.2)	9 (14)	1,000 (305)	Spool	12 x 4.5 x 5
FPLP/CL3P	2F-F13-44	2	12 (2.32)	19 x 0.0185	White	0.30 (7.6)	60 (89)	500 (152)	Spool	12 x 9 x 5
FPLP/CL3P	2F-E12-44	2	14 (1.85)	19 x 0.0147	White	0.26 (6.6)	43 (63)	1,000 (305)	Spool	14 x 11 x 5
FPLP/CL3P	2F-E14-44	2	14 (1.85)	19 x 0.0147	White	0.26 (6.6)	43 (63)	1,000 (305)	Reel-in-a-Box	-
FPLP/CL3P	2F-E33-44	4	14 (1.85)	19 x 0.0147	White	0.30 (7.7)	74 (111)	500 (152)	Spool	12 x 9 x 5
FPLP/CL3P/CMP	2F-D12-44	2	16 (1.46)	19 x 0.0117	White	0.20 (5.0)	25 (37)	1,000 (305)	Spool	12 x 9 x 5
FPLP/CL3P/CMP	2F-D14-44	2	16 (1.46)	19 x 0.0117	White	0.20 (5.0)	25 (37)	1,000 (305)	Reel-in-a-Box	-
FPLP/CL3P/CMP	2F-D32-44	4	16 (1.46)	19 x 0.0117	White	0.23 (5.7)	44 (65)	1,000 (305)	Spool	14 x 11 x 5
FPLP/CL3P/CMP	2F-C12-44	2	18 (1.16)	7 x 26 AWG	White	0.17 (4.3)	18 (26)	1,000 (305)	Spool	12 x 9 x 5
FPLP/CL3P/CMP	2F-C14-44	2	18 (1.16)	7 x 26 AWG	White	0.17 (4.3)	18 (26)	1,000 (305)	Reel-in-a-Box	-
FPLP/CL3P/CMP	2F-C32-44	4	18 (1.16)	7 x 26 AWG	White	0.20 (5.0)	31 (46)	1,000 (305)	Spool	12 x 9 x 5
FPLP/CL3P/CMP	2F-C34-44	4	18 (1.16)	7 x 26 AWG	White	0.20 (5.0)	31 (46)	1,000 (305)	Reel-in-a-Box	-
FPLP/CL3P/CMP	2F-C42-44	6	18 (1.16)	7 x 26 AWG	White	0.24 (6.0)	44 (65)	1,000 (305)	Spool	14 x 11 x 5
FPLP/CL3P/CMP	2F-C44-44	6	18 (1.16)	7 x 26 AWG	White	0.24 (6.0)	44 (65)	1,000 (305)	Reel-in-a-Box	-
FPLP/CL3P/CMP	2F-C53-44	8	18 (1.16)	7 x 26 AWG	White	0.26 (6.5)	57 (84)	500 (152)	Spool	12 x 9 x 5
FPLP/CL3P/CMP	2F-C73-44	12	18 (1.16)	7 x 26 AWG	White	0.32 (8.0)	83 (123)	500 (152)	Spool	14 x 11 x 5
FPLP/CL3P/CMP	2F-B12-44	2	20 (0.92)	7 x 28 AWG	White	0.15 (3.7)	13 (19)	1,000 (305)	Spool	12 x 4.5 x 5
FPLP/CL3P/CMP	2F-B32-44	4	20 (0.92)	7 x 28 AWG	White	0.17 (4.3)	22 (32)	1,000 (305)	Spool	12 x 9 x 5
FPLP/CL3P/CMP	2F-A12-44	2	22 (0.73)	7 x 30 AWG	White	0.13 (3.3)	10 (14)	1,000 (305)	Spool	12 x 4.5 x 5
FPLP/CL3P/CMP	2F-A32-44	4	22 (0.73)	7 x 30 AWG	White	0.15 (3.8)	15 (23)	1,000 (305)	Spool	12 x 4.5 x 5
FPLP/CL3P/CMP	2F-A34-44	4	22 (0.73)	7 x 30 AWG	White	0.15 (3.8)	15 (23)	1,000 (305)	Reel-in-a-Box	-
FPLP/CL3P/CMP	2F-A42-44	6	22 (0.73)	7 x 30 AWG	White	0.18 (4.5)	21 (32)	1,000 (305)	Spool	12 x 9 x 5
FPLP/CL3P/CMP	2F-A44-44	6	22 (0.73)	7 x 30 AWG	White	0.18 (4.5)	21 (32)	1,000 (305)	Reel-in-a-Box	-
FPLP/CL3P/CMP	2F-A52-44	8	22 (0.73)	7 x 30 AWG	White	0.19 (4.8)	27 (40)	1,000 (305)	Spool	12 x 9 x 5
FPLP/CL3P/CMP	2F-A62-44	10	22 (0.73)	7 x 30 AWG	White	0.22 (5.5)	33 (49)	1,000 (305)	Spool	12 x 9 x 5
FPLP/CL3P/CMP	2F-A72-44	12	22 (0.73)	7 x 30 AWG	White	0.23 (5.9)	38 (57)	1,000 (305)	Spool	14 x 11 x 5
FPLP/CL3P/CMP	2F-512-44	2	22 (0.64)	Solid	White	0.12 (3.2)	9 (14)	1,000 (305)	Spool	12 x 4.5 x 5

Coax RG-6, Quad Shield

CM/CATV, CMR/CATVR, CMP/CL2P, Interlock Armored CMR



PRODUCT DESCRIPTION

Superior Essex RG-6, Quad Shield coaxial cables are designed to support technologies such as extended bandwidth satellite service, high definition TV signals, CATV and two-way cable modems. Superior Essex maintains tight tolerances to cable diameter requirements of leading connector manufacturers. Also available as interlock armored coax.

APPLICATIONS

- HDTV, CATV and CCTV
- Two-way cable modems
- Extended bandwidth satellite service

FEATURES

- RG-6, Quad Shield Coaxial cable with bandwidth that exceeds 3 GHz
- Tight foamed polyethylene (CM and CMR) or fluoropolymer (CMP) insulating skin bonds around center conductor
- Black and white jacket colors available for CM and CMR versions
- Interlock armored version

BENEFITS

- "Future-proofing" the installation. Supports extended bandwidth satellite service and high-definition TV signals
- Exhibits better transmission characteristics
- Helps differentiate incoming service versus internal cabling infrastructure
- Provides additional mechanical and fire safety protection

SPECIFICATIONS

Conductor	Copper clad steel
AWG (mm)	18 (1.02)
Inner Shield	CM/CMR: 2.8 mil aluminum foil CMP: Aluminum/polyester/aluminum
Inner Braid	34 AWG aluminum (60%)
Outer Shield	CM/CMR: 1.8 mil aluminum foil CMP: Aluminum/polyester/aluminum
Outer Braid	34 AWG aluminum (40%)
Insulation	CM/CMR: Polyethylene CMP: Foamed fluoropolymer
Jacket	PVC (polyvinylchloride)
Nominal Impedance (Ohms)	75
Nominal Velocity of Propagation (%)	CM/CMR: 85 CMP: 83
Performance Compliance	UL 1569 UL13 UL 444 CSA C22.2 No. 214-08 UL 1685 UL 1666 NFPA 262 RoHS-compliant
NRTL Programs	UL, c(UL) Listed CM UL, c(UL) Listed CMR UL, c(UL) Listed CMP

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Listing	Part Number	Component Jacket Color	Nominal Diameter			Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
			Overall in (mm)	Dialectric in (mm)	Shield in (mm)			
CM/CATV	78-147-91	White	0.30 (7.5)	0.18 (4.6)	0.19 (4.8)	29 (43)	1,000' Plywood reel	27
CM/CATV	79-147-91	Black	0.30 (7.5)	0.18 (4.6)	0.19 (4.8)	29 (43)	1,000' Plywood reel	27
CM/CATV	78-147-9P	White	0.30 (7.5)	0.18 (4.6)	0.19 (4.8)	29 (43)	1,000' POP™ box	20
CM/CATV	79-147-9P	Black	0.30 (7.5)	0.18 (4.6)	0.19 (4.8)	29 (43)	1,000' POP box	20
CMR/CATVR	78-148-91	White	0.30 (7.5)	0.18 (4.6)	0.19 (4.8)	30 (45)	1,000' Plywood reel	27
CMR/CATVR	79-148-91	Black	0.30 (7.5)	0.18 (4.6)	0.19 (4.8)	30 (45)	1,000' Plywood reel	27
CMP/CL2P	78-14C-91	White	0.26 (6.7)	0.17 (4.3)	0.23 (5.9)	30 (45)	1,000' Plywood reel	25
Aluminum Interlock Armored (no outer jacket)								
CMR	KC-919-45	White	0.53 (13.5)	0.18 (4.6)	0.19 (4.8)	73 (109)	1,000' Plywood reel	1
CMR	KC-919-E5	Black	0.53 (13.5)	0.18 (4.6)	0.19 (4.8)	73 (109)	1,000' Plywood reel	1

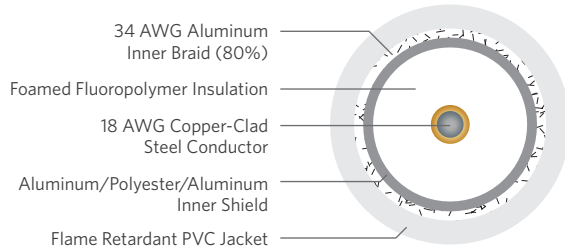
ELECTRICAL SPECIFICATIONS

Frequency MHz	CM/CATV and CMR/CATVR Attenuation Maximum		CM/CATV and CMR/CATVR SRL, Typical dB
	Specification dB/100 ft (dB/100 m)	Typical dB/100 ft (dB/100 m)	
55	1.6 (5.3)	1.3 (4.8)	20
211	3.1 (10.1)	2.7 (9.0)	20
270	3.5 (11.5)	3.1 (10.3)	20
300	3.7 (12.1)	3.4 (11.0)	20
330	3.9 (12.8)	3.6 (11.7)	20
400	4.3 (14.1)	4.0 (13.1)	20
450	4.6 (15.0)	4.1 (13.6)	20
550	5.1 (16.7)	4.7 (15.3)	20
750	6.0 (19.7)	5.2 (17.1)	20
870	6.5 (21.3)	6.0 (19.7)	20
1000	7.0 (23.0)	6.5 (21.2)	20
1200		7.2 (23.7)	18
1450		8.0 (26.1)	18
1800		8.8 (29.0)	18
2200		9.8 (32.1)	18
2600		10.7 (35.2)	15
3000		11.7 (38.3)	15

Frequency MHz	CMP/CL2P Attenuation, Nominal dB/100 ft (dB/100 m)	CMP/CL2P SRL, Nominal dB
1	0.3 (1.0)	20
10	0.7 (2.3)	20
50	1.5 (4.9)	20
100	2.1 (6.9)	20
200	3.1 (10.2)	20
500	5.0 (16.4)	20
700	6.4 (21.0)	20
1000	7.3 (23.9)	20
2300	12.2 (40.0)	20
3000	14.3 (46.9)	20

Coax RG-6, 80% Shield

CMP/CL2P



PRODUCT DESCRIPTION

The Superior Essex RG-6, 80% Shield coaxial plenum cable is designed to support analog, digital and high-bandwidth technologies. Superior Essex maintains tight tolerances to cable diameter requirements of leading connector manufacturers.

APPLICATIONS

- HDTV, CATV and CCTV
- Two-way cable modems
- Extended bandwidth satellite service

FEATURES

- RG-6, 80% Shield Coaxial cable with bandwidth that exceeds 2.2 GHz
- Tight foamed fluoropolymer insulating skin bonds around center conductor
- Natural white jacket color

BENEFITS

- "Future-proofing" the installation
- Exhibits better transmission characteristics
- Helps differentiate incoming service versus internal cabling infrastructure

SPECIFICATIONS

Conductor	Solid bare copper clad steel
AWG (mm)	18 (1.02)
Inner Braid	34 AWG aluminum (80%)
Inner Shield	Aluminum/polyester/aluminum
Jacket	Flame retardant PVC
Nominal Impedance (Ohms)	75
Nominal Velocity of Propagation (%)	85
Performance Compliance	UL13 UL 444 NFPA 262 RoHS-compliant
NRTL Programs	UL, c(UL) Listed CMP

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Listing	Part Number	Jacket Color	Nominal Diameter		Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
			Inner Shield in (mm)	Overall in (mm)			
CMP/CL2P	78-16C-91	White	0.17 (4.4)	0.23 (5.9)	21 (13.5)	1,000' Plywood reel	27

ELECTRICAL SPECIFICATIONS

Frequency MHz	Attenuation, Nominal, Specification dB/100 ft (dB/100 m)	SRL, Nominal dB
1	0.3 (1.0)	20
10	0.7 (2.2)	20
50	1.5 (4.9)	20
100	2.1 (6.9)	20
200	3.1 (10.2)	20
500	5.0 (16.4)	20
700	6.4 (21.0)	20
1000	7.3 (23.9)	20
1450	8.6 (28.1)	20
1800	9.7 (31.9)	20
2300	12.2 (40.0)	20
3000	14.2 (46.6)	20

PRODUCT DESCRIPTION

Superior Essex RG-6, 60% Shield coaxial cables are designed to support analog, digital and high-bandwidth technologies. Superior Essex maintains tight tolerances to cable diameter requirements of leading connector manufacturers.

APPLICATIONS

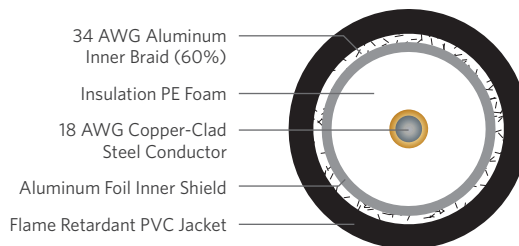
- HDTV, CATV and CCTV
- Two-way cable modems
- Extended bandwidth satellite service

FEATURES

- RG-6, 60% Shield Coaxial cable with bandwidth that exceeds 2.2 GHz
- Tight foamed polyethylene insulating skin bonds around center conductor
- Black and white jacket colors available

BENEFITS

- "Future-proofing" the installation
- Exhibits better transmission characteristics
- Helps differentiate incoming service versus internal cabling infrastructure



SPECIFICATIONS

Conductor	Copper clad steel
AWG (mm)	18 (1.02)
Inner Braid	34 AWG aluminum (60%)
Inner Shield	2.8 mil aluminum foil
Jacket	Flame retardant PVC
Nominal Impedance (Ohms)	75
Nominal Velocity of Propagation (%)	85
Performance Compliance	UL 444 UL 1685 ANSI/SCTE 74-2003 RoHS-compliant
NRTL Programs	UL, c(UL) Listed CM

PART NUMBERS AND PHYSICAL CHARACTERISTICS

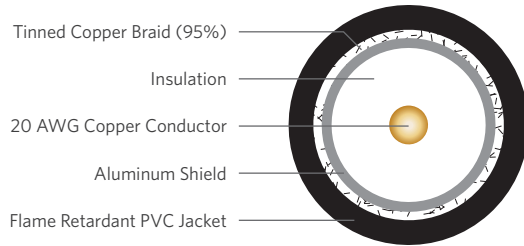
Listing	Part Number	Jacket Color	Nominal Diameter		Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
			Inner Shield in (mm)	Overall in (mm)			
CM/CATV	78-107-9P	White	0.18 (4.6)	0.28 (7.1)	21 (13.5)	1,000' POP™ box	20
CM/CATV	79-107-9P	Black	0.18 (4.6)	0.28 (7.1)	21 (13.5)	1,000' POP box	20
CM/CATV	78-107-91	White	0.18 (4.6)	0.28 (7.1)	21 (13.5)	1,000' Plywood reel	27
CM/CATV	79-107-91	Black	0.18 (4.6)	0.28 (7.1)	21 (13.5)	1,000' Plywood reel	27

ELECTRICAL SPECIFICATIONS

Frequency MHz	Attenuation, Nominal, Specification dB/100 ft (dB/100 m)	SRL, Nominal dB
55	6.04 (1.84)	20
211	11.6 (3.55)	20
250	12.6 (3.85)	20
270	13.1 (4.00)	20
330	14.5 (4.41)	20
350	14.9 (4.54)	20
450	16.9 (5.14)	20
500	17.7 (5.41)	20
550	18.6 (5.66)	20
600	19.4 (5.91)	20
750	21.6 (6.59)	20
870	23.2 (7.08)	20
1000	24.8 (7.57)	20
1200	27.1 (8.27)	17
1450	29.7 (9.05)	17
1800	32.9 (10.0)	17
2250	36.6 (11.2)	17

Coax RG-59, 95% Shield

CMR/CL2R, CMP/CL2P



PRODUCT DESCRIPTION

Closed circuit security cameras use baseband frequencies, typically under 5 MHz. These applications are best suited for the bare copper center conductors of the Superior Essex RG-59 coaxial cable, which also features 95% tinned copper braiding. RG-59 is specifically designed for applications operating below 1 GHz, but will also support higher frequency applications at shorter distances than RG-6 coaxial cable.

APPLICATIONS

- CCTV and CATV
- Video camera signals

FEATURES

- Small size
- Copper center conductor
- Foamed polyethylene dielectric (CMR) or fluoropolymer (CMP)
- Bonded aluminum shield tape
- 95% tinned copper braid
- Black and white jacket colors available for CMR version

BENEFITS

- Suitable for tight applications and preferred for lower frequency signals
- Ideal for lower frequency signals
- Exhibits better transmission characteristics
- Blocks RFI
- Ideal for lower frequency signals
- Helps differentiate incoming service versus internal cabling infrastructure

SPECIFICATIONS

Conductor	Solid copper
AWG (mm)	20 (0.81)
Shield	Aluminum foil
Braid	Tinned copper (95%)
Jacket	Flame retardant PVC
Nominal Impedance (Ohms)	75.0
Nominal Velocity of Propagation (%)	CMR: 83 CMP: 84
Performance Compliance	UL 13 UL 444 UL 1666 NEC Article 725 NEC Article 800 NFPA 262 RoHS-compliant
NRTL Programs	UL, c(UL) Listed CMR UL, c(UL) Listed CMP

PART NUMBERS AND PHYSICAL CHARACTERISTICS

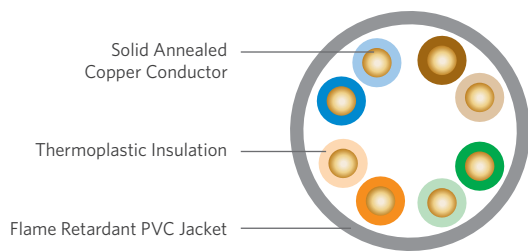
Listing	Part Number	Jacket Color	Nominal Diameter in(mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CMR/CL2R	78-558-91	White	0.24 (6.1)	34 (50.7)	1,000' Plywood reel	25
CMR/CL2R	79-558-91	Black	0.24 (6.1)	34 (50.7)	1,000' Plywood reel	25
CMP/CL2P	78-55C-91	White	0.19 (5.1)	27 (12.0)	1,000' Plywood reel	25

ELECTRICAL SPECIFICATIONS

Frequency MHz	CMR/CL2R Attenuation, Nominal dB/100 ft (dB/100 m)	CMP/CL2P Attenuation, Nominal dB/100 ft (dB/100 m)
1	0.3 (1.0)	0.3 (1.0)
3.58	0.6 (1.8)	0.6 (2.0)
5	0.6 (2.1)	0.7 (2.3)
7	0.7 (2.4)	0.8 (2.7)
10	0.9 (2.9)	1.1 (3.4)
67.5	2.1 (6.7)	2.2 (7.2)
71.5	2.1 (6.9)	2.3 (7.4)
100	2.3 (7.6)	2.7 (8.9)
135	2.7 (8.9)	3.2 (10.5)
143	2.8 (9.1)	3.3 (10.7)
180	3.1 (10.2)	3.7 (12.0)
270	3.8 (12.5)	4.6 (14.9)
360	4.4 (14.5)	5.3 (17.2)
540	5.5 (17.9)	6.4 (21.0)
720	6.4 (20.9)	7.3 (23.9)
750	6.5 (21.3)	7.4 (24.3)
1000	7.6 (24.9)	9.4 (30.8)
2000	10.9 (35.8)	14.6 (47.8)
3000	13.3 (43.7)	18.8 (61.5)

Marathon LAN® Category 5e

CMR/CMP



SPECIFICATIONS

Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	24 (0.51)
Insulation	Thermoplastic
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Jacket	CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC
Characteristic Impedance (Ohms)	100 ± 15
Nominal Velocity of Propagation (%)	CMR: 71 CMP: 74
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 Article 800, NEC (NFPA 70) RoHS-compliant
NRTL Programs	UL Verified CAT 5e UL, c(UL) Listed CMR UL, c(UL) Listed CMP

PRODUCT DESCRIPTION

Marathon LAN® Category 5e cable offers an exceptional value for jobs that require standards compliance at a cost-effective price. While Marathon LAN cable meets all of the ANSI/TIA-568-C.2 specifications, it also offers other features that make it easier to use, save on installation time and expense and ensure product quality during the installation. From the QuickCount® feature, which marks the exact cable remaining in the box, to the WideMouth payout design, which reduces tension on the wire as it is pulled during installation, Marathon LAN cable provides more overall value than any other CAT 5e product available today.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) - IEEE 802.3af
- PoE+ - IEEE 802.3at Type 1 and 2
- ATM and token ring

FEATURES

- Meets ANSI/TIA-568-C.2 specification
- Tested to 350 MHz
- "WideMouth" POP™ box design
- CableID® alpha numeric code printed every 2 feet
- QuickCount marking system in feet and meters
- ColorTip™ circuit identification system
- Color coded box labels

BENEFITS

- Provides cost-effective solution
- Assures ample bandwidth headroom
- Reduces tension on wire to ensure proper electrical performance after installation
- Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
- Provides remaining length of cable on reel
- Easily identifiable conductor mates even in low-light environments
- Easily identifies jacket colors

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Listing	Part Number ¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CMR	51-243-x5	0.18 (4.6)	17 (25)	1,000' Reel-in-a-Box	45
CMR	51-240-x5	0.18 (4.6)	17 (25)	1,000' POP box	45
CMR	51-220-x5	0.18 (4.6)	17 (25)	1,000' Plywood reel	36
CMP	51-243-x8	0.19 (4.8)	20 (30)	1,000' Reel-in-a-Box	45
CMP	51-241-x8	0.19 (4.8)	20 (30)	1,000' POP box	45
CMP	51-220-x8	0.19 (4.8)	20 (30)	1,000' Plywood reel	36

JACKET COLORS

¹Replace "x" with:

Blue = 2

Gray = 3

White = 4

Green = 5

Yellow = 6

Purple = 7

Red = 9

Pink = C

Orange = D

Black = E

Category 5e+ ScTP (F/UTP)

CMR/CMP

PRODUCT DESCRIPTION

Superior Essex offers Screen Twisted Pair (ScTP) shielded Category 5e+ cables in both plenum and riser versions. The cable has guaranteed performance out to 350MHz and meets all applicable ANSI/TIA-568-C.2 requirements. The cable consists of four balanced 24 AWG copper pairs. The core is wrapped with an aluminum foil tape and has a tin coated drain wire. The tape wrapped core is jacketed with the appropriate flexible PVC jacket for plenum or riser applications.

APPLICATIONS

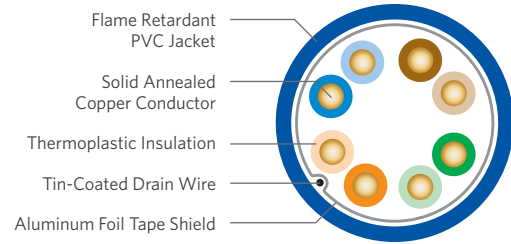
- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) - IEEE 802.3af
- PoE+ - IEEE 802.3at Type 1 and 2
- ATM and token ring
- Applications requiring secure networks or protection from EMI/RFI

FEATURES

- Aluminum foil tape covers all 4-pair
- Exceeds ANSI/TIA-568-C.2 for CAT 5e cable performance
- Guaranteed performance to 350 MHz
- CableID® alpha numeric code printed every 2 feet
- QuickCount® marking system in feet and meters
- ColorTip™ circuit identification system
- Color coded box labels

BENEFITS

- Protects against EMI/RFI and provides greater security
- Assures compliance for all current networking applications (up to 1000BASE-T)
- Assures ample bandwidth headroom
- Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
- Provides remaining length of cable on reel
- Easily identifiable conductor mates even in low-light environments
- Easily identifies jacket colors



SPECIFICATIONS

Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	24 (0.51)
Insulation	CMR: Polyolefin CMP: FEP
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Shield	Aluminum foil tape
Drain Wire	24 AWG tinned copper
Jacket	CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC
Characteristic Impedance (Ohms)	100 ± 15
Nominal Velocity of Propagation (%)	CMR: 67 CMP: 70
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 Article 800, NEC (NFPA 70) RoHS-compliant
NRTL Programs	UL Verified CAT 5e UL, c(UL) Listed CMR UL, c(UL) Listed CMP

PART NUMBERS AND PHYSICAL CHARACTERISTICS

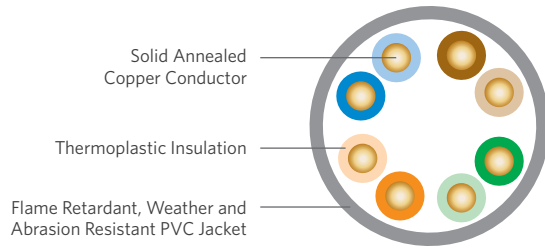
Listing	Part Number ¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CMR	5F-220-x5	0.28 (7.1)	31 (46)	1,000' Plywood reel	12
CMP	5F-220-x8	0.25 (6.4)	30 (45)	1,000' Plywood reel	12

JACKET COLORS

¹Replace "x" with: Blue = 2 Gray = 3 White = 4 Green = 5 Yellow = 6 Red = 9 Orange = D Black = E

Category 5e Outdoor

CMR/CMX



SPECIFICATIONS

Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	24 (0.51)
Insulation	Polyolefin
Insulation Colors	Pair 1: ColorTip™ Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Jacket	Tough, flame retardant, weather and abrasion resistant PVC
Characteristic Impedance (Ohms)	100 ± 15
Nominal Velocity of Propagation (%)	70
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1581 UL 1666 ANSI/TIA-568-C.2 ANSI/TIA/EIA-570-B Article 800, NEC (NFPA 70) RoHS-compliant
NRTL Programs	UL Verified CAT 5e UL, c(UL) Listed CMR UL, c(UL) Listed CMX Outdoor

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number ¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
51-240-x1	0.21 (5.3)	21 (31)	1,000' POP™ box	36

JACKET COLORS

¹ Replace "x" with:	Beige = 1	Blue = 2	Gray = 3	White = 4
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PRODUCT DESCRIPTION

Superior Essex Category 5e CMR/CMX Outdoor Cable is designed for residential indoor/outdoor LAN applications. CAT 5e compliance ensures this cable will support 1000BASE-T Gigabit Ethernet. This cable easily surpasses the Grade 2 requirements specified in the ANSI/TIA/EIA-570-B Residential Telecommunications Standard. The CAT 5e CMR/CMX Outdoor cable is resistant to cracking after long-term UV exposure, making it ideal for installation runs that require the cable to be exposed to the elements. This cable is listed as compliant to the 300 hour weatherometer test and -20°C cold bend test.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) - IEEE 802.3af
- PoE+ - IEEE 802.3at Type 1 and 2
- ATM and token ring

FEATURES

- Tough, weather resistant PVC jacket
- Combined indoor/outdoor rating
- Meets ANSI/TIA-568-C.2 specification
- CableID® alpha numeric code printed every 2 feet
- QuickCount® marking system in feet and meters
- ColorTip™ Circuit Identification System

BENEFITS

- Increases life of cable by providing low temperature handling and sunlight resistance; cable jacket resists cracking over time
- Reduces inventory by eliminating multiple cable types
- CAT 5e compliance
- Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
- Provides remaining length of cable on reel
- Easily identifiable conductor mates even in low light environments

Category 5e ScTP (F/UTP) Outdoor

CMR/CMX

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PRODUCT DESCRIPTION

Superior Essex Category 5e ScTP (F/UTP) CMR/CMX Outdoor Cable is designed for residential indoor/outdoor LAN applications that require shielding and a ground wire for Power-over-Ethernet (PoE) devices. The cable is sweep-tested to 350 MHz and meets all applicable ANSI/TIA-568-C.2 requirements. The cable supports 1000BASE-T and surpasses the Grade 2 requirements specified in the ANSI/TIA/EIA-570-B Residential Telecommunications Standard. The CAT 5e ScTP CMR/CMX Outdoor cable is resistant to cracking after long-term UV exposure, making it ideal for installation runs that expose it to the elements. This cable is listed as compliant to the 300 hour Weather-Ometer test and -20°C cold bend test.

APPLICATIONS

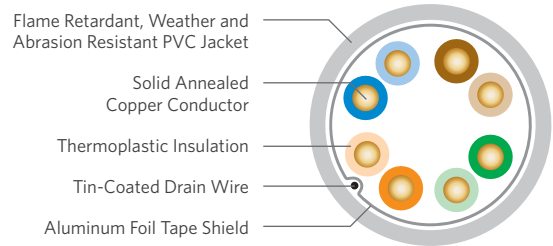
- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) - IEEE 802.3af
- PoE+ - IEEE 802.3at Type 1 and 2
- ATM and token ring
- Applications requiring secure networks or protection from EMI/RFI
- Indoor/Outdoor Ethernet Applications

FEATURES

- Tough, weather resistant PVC jacket
- Combined indoor/outdoor rating
- Meets ANSI/TIA-568-C.2 specification
- CableID® alpha numeric code printed every 2 feet
- QuickCount® marking system in feet and meters
- ColorTip™ Circuit Identification System
- RoHS-compliant

BENEFITS

- Increases life of cable by providing low temperature handling and sunlight resistance; cable jacket resists cracking over time
- Reduces inventory by eliminating multiple cable types
- CAT 5e compliant
- Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
- Provides remaining length of cable on reel
- Easily identifiable conductor mates even in low-light environments
- Free of heavy metal and toxic components



SPECIFICATIONS

Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	24 (0.51)
Insulation	Polyolefin
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Shield	Aluminum foil tape
Drain Wire	24 AWG tinned copper
Jacket	Tough, flame retardant, UV, weather, and abrasion resistant PVC
Characteristic Impedance (Ohms)	100 ± 15
Nominal Velocity of Propagation (%)	67
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 Article 800, NEC (NFPA 70) RoHS-compliant
NRTL Programs	UL Verified CAT 5e UL, c(UL) Listed CMR UL, c(UL) Listed CMX Outdoor

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number ¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
5F-220-x1	0.28 (7.1)	31 (46)	1,000' Plywood reel	12

JACKET COLORS

¹ Replace "x" with:	Beige = 1	Blue = 2	Gray = 3	White = 4
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Selecting the Right Fire Alarm/Security Control Cable

DISTANCE THE CABLE WILL RUN

Voltage drop should be calculated or refer to equipment manufacturer's recommendations. Knowing the cable run will help identify the right gauge size cable to select. A larger gauge size is suitable for longer runs.

NON-POWER LIMITED OR POWER LIMITED

The difference between power limited cables and non-power limited cables are specified in specific sections of the NEC.

- **Non-Power Limited Cable** is a fire alarm circuit powered by a source that complies with NEC sections 760-21 and 760-23. Non-power limited fire alarm cables have been designed for installations where fire alarm cables are permitted to occupy the same enclosure, or race way as other Class 1 Circuits, or 600V cables.
- **Power Limited Cable** is a fire alarm circuit powered by a source that complies with section 760-41. Power limited fire alarm cables are rated for 300V. Superior Essex offers only power limited fire alarm and power limited security control cables.

SHIELDED OR NON-SHIELDED

Is the system microprocessor based and therefore sensitive to EMI and RFI? If the system is computer based, a **shielded** cable will protect the circuits from this outside interference and keep the signal constant. If interference is not a concern, then a **non-shielded** cable is a cost effective solution.

- **EMI** (Electro Magnetic Interference): EMI can come from electrostatic sparks or spiking from motors, neon or fluorescent lighting ballasts or any other sources that cause noise. Shielded cables should be considered for installations in areas near dimmer panels and light switches, in parallel runs, near neon or fluorescent lights and near power cables.
- **RFI** (Radio Frequency Interference): Some frequencies used for radio communications can become coupled onto conductors to produce RFI.

SIMPLIFYING PRODUCT SELECTION

Superior Essex designed its Fire Alarm and Security Control cables to have multiple NEC and UL listings. A single cable design satisfies several listing categories and can be deployed if one listing category is called out by the customer. As an example, the Fire Alarm cable jacket is marked with three listings: FPLR, CL3R and CMR. This covers UL 1424 for the FPLR rating, UL 13 for the CL3R rating and UL 444 for the CMR rating.

When the customer specification calls for any one of the three specifications, this product is properly listed for that application. This simplifies product selection and helps with ordering stock and installation. Superior Essex has combined General Use (FPL) and Riser (FPLR) into one category called Riser.

Superior Essex Category	NEC/UL Listing	Suitable Applications	Substitutions
Non-Plenum or Riser	FPLR and FPL	Vertical runs in a shaft or from floor to floor and general purpose use	CM, CMR, CL3R
Plenum	FPLP	Ducts, plenums and other space used for environmental air	CMP, CL3P

INSULATION COLORS

Fire Alarm Conductor Number	Insulation Color
1	Black
2	Red
3	Brown
4	Blue
5	Orange
6	Yellow
7	Violet
8	Gray

Security Control Conductor Number	Insulation Color
1	Black
2	Red
3	White
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Violet
10	Gray
11	Pink
12	Tan

CABLE SELECTION FOR VIDEO APPLICATIONS

Closed circuit security cameras use baseband frequencies, typically under 5 MHz. These applications are best suited for the bare copper center conductors of the Superior Essex RG-59 coaxial cable, which also features 95% copper braiding. RG-59 coaxial cable is specifically designed for applications operating below 1 GHz, but will also support higher frequency applications at shorter distances than RG-6 coaxial cable.

Many video and RF applications use frequencies above 1 GHz. RG-6 coaxial cable is often the preferred cable choice for applications such as CATV transmission. In such cases, the decision is whether to use 60% or 80% braid/shield or a quad shield design. The quad shield design is slightly more expensive than the 60% and 80% shield designs, but offers superior interference protection than the 60% and 80% braid versions.

It is becoming more common however, for copper category (CAT) twisted pair cables, like CAT 5e and 6, to be used for Closed Circuit over Twisted Pair (CCTP) systems. Digitally formatted signals provide dramatically better pictures and better sound quality. Digital Signal Processed (DSP) cameras fed by copper twisted CAT 5e and 6 cables, typically have more control setting options, plus digital video recorders (DVRs) options. Both DSP cameras and DVRs can typically be connected with coax products, but you should consult the camera manufacturer for its recommendation before making a cable selection.

Power Limited Cable Type	Listing	Bare Copper Standards			NEC and UL Standards				Miscellaneous Standards		
		ASTM B-3 (Solid Copper)	ASTM B-3 and B-8 (Stranded Copper)	UL 1424 Fire Alarm NEC Article 760	UL 13 Security NEC Article 725 (150 Volts)	UL 444 NEC Article 800 (300 Volts)	UL 1666 NFPA 262	California State Fire Marshall	Sunlight Resistant	RoHS-Compliant	
Fire Alarm, Non-Shielded and Shielded	Riser	✓		✓	✓	✓	✓	✓	✓	✓	
	Plenum	✓		✓	✓	✓		✓		✓	
Security Control, Non-Shielded and Shielded	Riser	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Plenum	✓	✓	✓	✓	✓		✓		✓	



Wood/Plywood Reel
 Reels may be made of plywood or wood. Superior Essex wooden reels can be recycled an average of five times before retirement (see Web site for further details).



POP™ Box
 In this package, the cable is coiled into a box. The product pays out through a tube opening in the box. This design does not allow for the cable to be removed as a unit from the box.



Ribbed Spool
 Cable is wound onto a black, ribbed, plastic recyclable spool. The spool is rugged, robust and easy to handle. Spools are smaller than wood or steel reels.



Reel-in-a-Box
 This package is dual purpose. In this design the cable is placed onto a plastic spool, which is placed into a box. The spool may be taken from the box for installation or may be left in the box where the cable pays out through a slotted opening.

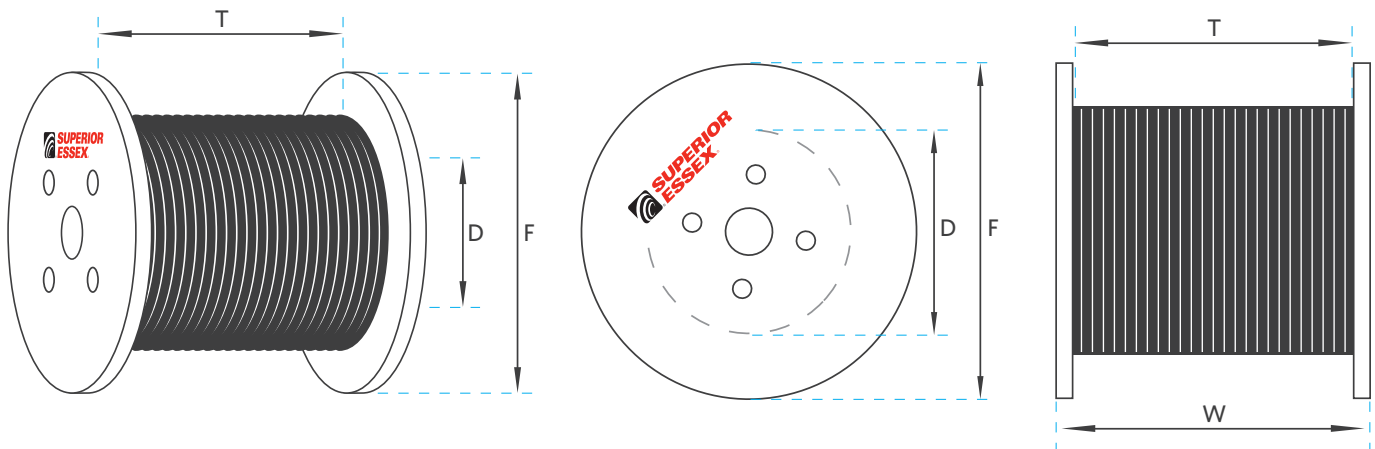
Flange x Traverse x Drum (F x T x D)

F = Flange Diameter

T = Traverse (inside width between flanges)

D = Drum Diameter

W = Overall Width (includes flanges)



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