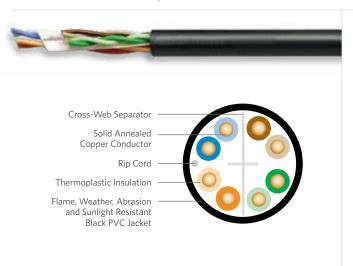
Category 6

CMR/CMX Outdoor Sunlight Resistant



SPECIFICATIONS					
Pair Count	4				
Conductor	Solid annealed copper				
AWG (mm)	23 (0.57)				
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				
Ripcord	Non-wicking polyester yarn				
Jacket	Tough, flame retardant, weather, sunlight and abrasion resistant riser PVC				
Jacket Color	Black				
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-568.2-D ANSI/TIA/EIA-570-B Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant				
NRTL Programs	UL Verified CAT 6 UL, c(UL) Listed CMR UL, c(UL) Listed CMX Outdoor Sunlight Resistant				

ENVIRONMENTAL SPECIFICATIONS AND TESTS						
Operation	-40°F to +167°F (-40°C to +75°C)					
Installation	-40°F to +140°F (-40°C to +60°C)					
ANSI/ICEA S-100-685-2009 Tested down to -67°F (-55°C)	Section 7.1: -4°F (-20°C) cold bend test Section 7.2: +14°F (-10°C) cold impact test Section 7.3: -40°F (-40°C) anvil test					

PRODUCT DESCRIPTION

The Superior Essex Category 6 CMR/CMX Outdoor Sunlight Resistant cable is specifically designed for extreme sunlight and temperature applications. The level of UV blocking compounds is the same as in traditional Outside Plant (OSP) cable products, with the black color preventing damage from long-term UV sunlight exposure. Applications include Ethernet interconnect cable for Wi-Fi or retrofit cable installations that employ exterior runs having long-term outdoor exposure between two environmentally protected points. CMX Outdoor cables are designed to extend the run between the Network Interface Unit and the point of entry into the interior of a residence or a premise.

Superior Essex CAT 6 CMR/CMX Outdoor Sunlight Resistant black premises cable has been tested and listed as UL® 444 Sunlight Resistant compliant. This designation requires the cable to resist 720 hours of harsh UV and heat, which is more than twice the exposure time of the standard 300 hours required in the CMX Outdoor test. In addition, the CMR listing allows the cable to be used in riser spaces per UL 1666, eliminating the need to transition to fire resistant cables.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3bt Type 1 to 4
- Wi-Fi IEEE 802.11a/b/g/n

- Combined indoor/outdoor rating
- UL 444/UL 1581 Sunlight Resistant Listed
- Meets ANSI/TIA-568.2-D specification
- BrakeBox® payout control system
- Moisture-resistant package
- CableID[®] alpha numeric code printed every 2 feet
- QuickCount® marking system in feet and meters
- ColorTip® Circuit Identification System
- Rip cord applied under jacket
- RoHS-compliant

- Reduces inventory by eliminating multiple cable types
- Increased life in direct, long term sunlight
- CAT 6 performance
- Adjustable tension control on reel prevents over spin and entangling of cable
- Resists damp conditions that might weaken standard packages
- 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
- Facilitates easy opening
- No heavy metals; and no toxic components

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CAUTIONARY INFORMATION

- Do not use as a substitute for Outside Plant (OSP) cables.
- Do not use in conduit or direct burial which can flood.
 These cables are not designed for extended exposure to water.

PART NUMBERS AND PHYSICAL CHARACTERISTICS							
Part Number	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet			
77-246-E1	0.27 (6.9)	33 (49.25)	1,000' BrakeBox	12			

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Insertion Loss @ 20°C dB/100 m					ACR Minimum dB/100 m		PSNEXT Minimum dB/100 m	
Frequency	TIA-568.2-D	Superior Essex	TIA-568.2-D	Superior Essex	TIA-568.2-D	Superior Essex	TIA-568.2-D	Superior Essex
MHz	Specified	Typical	Specified	Typical	Calculated	Typical	Specified	Typical
1	2.0	1.7	74.3	82.9	72.3	82.2	72.3	81.9
4	3.8	3.4	65.3	77.6	61.5	74.2	63.3	75.0
8	5.3	4.8	60.8	74.4	55.4	68.9	58.8	71.9
10	6.0	5.4	59.3	70.1	53.3	64.7	57.3	68.3
16	7.6	6.9	56.2	69.6	48.6	62.5	54.2	67.1
20	8.5	7.8	54.8	68.7	46.3	60.7	52.8	65.7
25	9.5	8.8	53.3	66.1	43.8	58.7	51.3	64.7
31.25	10.7	9.8	51.9	67.8	41.2	56.2	49.9	63.4
62.5	15.4	14.2	47.4	64.0	32.0	47.8	45.4	59.1
100	19.8	18.2	44.3	58.0	24.5	38.7	42.3	55.0
155	25.2	23.0	41.4	54.5	16.3	31.6	39.4	52.1
200	29.0	26.6	39.8	53.8	10.8	26.5	37.8	50.6
250	32.8	30.1	38.3	51.0	5.5	21.1	36.3	48.7
300		33.4		53.8		19.4		49.1
350		36.5		50.1		14.3		47.5
400		39.5		49.1		8.0		44.5
450		42.3		44.6		3.3		43.4
500		45.1		42.9				41.7
550		47.7		41.6				39.1

		PSACR Minimum dB/100 m		Return Loss Minimum dB/100 m		ELFEXT Minimum dB/100 m		PSELFEXT Minimum dB/100 m	
Frequency	TIA-568.2-D	Superior Essex	TIA-568.2-D	Superior Essex	TIA-568.2-D	Superior Essex	TIA-568.2-D	Superior Essex	
MHz	Calculated	Typical	Specified	Typical	Specified	Typical	Specified	Typical	
1	70.3	80.2	20.0	26.0	67.8	78.7	64.8	76.6	
4	59.5	71.6	23.0	31.1	55.8	65.9	52.8	64.2	
8	53.4	67.1	24.5	34.5	49.7	60.1	46.7	58.4	
10	51.3	62.9	25.0	36.3	47.8	58.1	44.8	56.4	
16	46.6	60.2	25.0	37.7	43.7	54.0	40.7	52.2	
20	44.3	58.1	25.0	36.0	41.8	52.1	38.8	50.3	
25	41.8	56.1	24.3	38.6	39.8	50.2	36.8	48.4	
31.25	39.2	53.6	23.6	38.3	37.9	48.1	34.9	46.4	
62.5	30.0	45.0	21.5	32.8	31.9	41.4	28.9	40.3	
100	22.5	37.0	20.1	30.7	27.8	36.8	24.8	35.2	
155	14.3	29.1	18.8	28.8	24.0	33.3	21.0	31.9	
200	8.8	24.0	18.0	27.6	21.8	32.6	18.8	31.8	
250	3.5	18.8	17.3	28.5	19.8	32.5	16.8	31.3	
300		15.8		28.6		30.8		28.9	
350		11.6		29.0		26.8		25.4	
400		5.0		24.9		24.7		23.5	
450		1.2		23.9		23.2		21.9	
500				25.0		22.5		21.5	
550				24.2		22.4		22.0	

