

Bundle 4 x Category 5e F/UTP

CMR/CMX Outdoor Sunlight Resistant



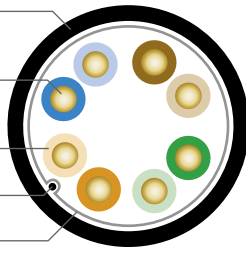
Flame, Weather, Abrasion and Sunlight Resistant Black PVC Jacket

Solid Annealed Copper Conductor

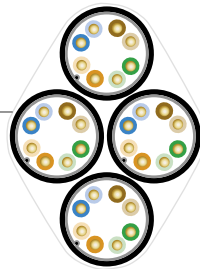
Thermoplastic Insulation

Tin-Coated Drain Wire

Aluminum Foil Tape Shield



Contra-Helically Applied Binder Yarns



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, sunlight, weather, and abrasion resistant, black, riser-rated PVC
Binder	Yarns
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	67
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1581 UL 1666 NFPA 262 ANSI/TIA-568.2-D ANSI/ICEA S-90-661-2012 Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CMR UL, c(UL) Listed CMX Outdoor Sunlight Resistant

ENVIRONMENTAL SPECIFICATIONS AND TESTS

Operation	-40°F/+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 5e F/UTP (ScTP) CMR/CMX Outdoor Sunlight Resistant cable is specifically designed for extreme sunlight and temperature applications that require shielding and a ground wire for Power-over-Ethernet (PoE) devices. 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 5e F/UTP (ScTP) 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.

The cable is sweep-tested to 350 MHz and meets all applicable ANSI/TIA-568.2-D requirements. It supports 1000BASE-T and surpasses the Grade 2 requirements specified in the ANSI/TIA/EIA-570-B Residential Telecommunications Standard.

These bundled cables consist of multiple Category 5e compliant cables bundled together and bound by contra-helically applied binder yarns. The binder configuration allows for easy breakout and offers greater flexibility compared to a composite overjacket design.

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
- Applications requiring secure networks or protection from EMI/RFI
- Indoor/Outdoor Ethernet applications

FEATURES

- UL 444/UL 1581 Sunlight Resistant Listed
- Combined CMR Riser Indoor and CMX Outdoor Sunlight Resistant Listing
- Meets ANSI/TIA-568.2-D specification
- Moisture-resistant package
- CableID® alpha numeric code printed every 2 feet
- QuickCount® marking system in feet and meters
- ColorTip® Circuit Identification System
- RoHS-compliant

BENEFITS

- Increased life in direct, long term sunlight
- Reduces inventory by eliminating multiple cable types
- CAT 5e compliant
- 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
- Free of heavy metal and toxic components



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 ¹	Cbale Subunits	Jacket Colors ¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length (ft)
11-009-92	4	Black	0.59 (15)	116 (172)	Cut to Length

¹ Each sub-unit print string will have a letter to differentiate from the other cables

ELECTRICAL SPECIFICATIONS

Frequency MHz	Insertion Loss @ 20°C Maximum dB/100 m		NEXT Minimum dB/100 m		ACR Minimum dB/100 m		PSNEXT Minimum dB/100 m	
	TIA-568.2-D	Superior Essex	TIA-568.2-D	Superior Essex	TIA-568.2-D	Superior Essex	TIA-568.2-D	Superior Essex
	Specified	Typical	Specified	Typical	Calculated	Typical	Specified	Typical
1	2.0	1.8	65.3	79.4	63.3	77.7	62.3	77.2
4	4.1	3.6	56.3	69.9	52.2	66.4	53.3	67.4
8	5.8	5.1	51.8	65.1	46.0	60.0	48.8	62.7
10	6.5	5.8	50.3	63.6	43.8	57.9	47.3	61.2
16	8.2	7.4	47.3	60.4	39.1	53.1	44.3	58.0
20	9.3	8.2	45.8	59.0	36.5	50.9	42.8	56.6
25	10.4	9.3	44.3	57.5	33.9	48.3	41.3	55.1
31.25	11.7	10.5	42.9	56.0	31.2	45.7	39.9	53.5
62.5	17.0	14.9	38.4	51.7	21.4	36.8	35.4	49.2
100	22.0	19.2	35.3	48.5	13.3	29.5	32.3	46.0
155		24.2		45.7		21.6		43.1
200		27.8		43.6		16.0		41.0
250		31.4		42.0		10.7		39.4
300		34.7		40.4		5.9		37.7
350		37.8		39.3		1.7		36.8

Frequency MHz	PSACR Minimum dB/100 m		Return Loss Minimum dB/100 m		ELFEXT Minimum dB/100 m		PSELFEXT Minimum dB/100 m	
	TIA-568.2-D	Superior Essex	TIA-568.2-D	Superior Essex	TIA-568.2-D	Superior Essex	TIA-568.2-D	Superior Essex
	Calculated	Typical	Specified	Typical	Specified	Typical	Specified	Typical
1	60.3	75.4	20.0	28.5	63.8	72.6	60.8	70.6
4	49.2	64.0	23.0	35.6	51.7	60.7	48.7	59.0
8	43.0	57.7	24.5	35.7	45.7	54.8	42.7	53.1
10	40.8	55.6	25.0	35.9	43.8	52.9	40.8	51.1
16	36.1	50.8	25.0	35.2	39.7	48.9	36.7	47.1
20	33.5	48.6	25.0	34.9	37.7	47.0	34.7	45.2
25	30.9	46.0	24.3	35.2	35.8	45.1	32.8	43.3
31.25	28.2	43.4	23.6	34.8	33.9	43.2	30.9	41.3
62.5	18.4	34.6	21.5	31.8	27.8	37.2	24.8	35.2
100	10.3	27.3	20.1	30.1	23.8	33.2	20.8	31.1
155		19.4		28.4		29.3		27.2
200		13.9		27.3		27.1		25.0
250		8.6		26.1		25.1		23.1
300		3.8		25.1		23.7		21.5
350				24.0		22.5		20.3

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