

Category 5e CMR/CMX - Outdoor



Product Description

Superior Essex Category 5e CMR/CMX - Outdoor cable is designed for residential indoor/outdoor LAN applications. Category 5e compliance ensures this cable will support 1000BASE-T Gigabit Ethernet. This cable easily surpasses the Grade 2 requirements specified in the TIA/EIA 570-B Residential Telecommunications Standard. The Category 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 has been tested and is listed as compliant to the 300 hour weatherometer test and -20°C cold bend test.

Features

- Tough, weather resistant PVC jacket
- Combined Indoor/Outdoor Rating
- Meets TIA/EIA 568-B.2 Specification
- QuickCount® marking system
- 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
- Category 5e compliance supports GigaBit Ethernet for LAN applications
- Eliminates guesswork of footage in box and reduces scrap
- Easily identifiable conductor mates, even in low light environment

Applications

- 10BASE-T through 1000BASE-T Ethernet, ATM and Token Ring

Part Numbers and Physical Characteristics

Part #	Pair Count	AWG (mm)	Jacket Color	Nom. Dia. inches (mm)	Approx. Weight lbs/kft (kg/km)	Package
51-240-11	4	24 (0.5)	Beige	0.22 (5.6)	22 (33)	1000' POP® Box
51-240-21	4	24 (0.5)	Blue	0.22 (5.6)	22 (33)	1000' POP Box
51-240-31	4	24 (0.5)	Gray	0.22 (5.6)	22 (33)	1000' POP Box

Physical Description

- Conductor: 24 AWG (0.5 mm) Solid Annealed Bare Copper • Insulation: Polyolefin
- Jacket: Tough, Flame Retardant, Weather and Abrasion Resistant PVC (Polyvinyl Chloride)

Electrical								
Frequency MHz	Attenuation (dB/100m) @ 20°C Maximum		NEXT (dB/100m) Minimum		ACR (dB/100m) Minimum		PS-NEXT (dB/100m) Minimum	
	TIA 568-B.2	Superior Essex	TIA 568-B.2	Superior Essex	TIA 568-B.2	Superior Essex	TIA 568-B.2	Superior Essex
	Specified	Typical	Specified	Typical	Calculated	Typical	Specified	Typical
1	2.0	1.8	65.3	77.7	63.3	75.9	62.3	75.2
4	4.1	3.7	56.3	68.7	52.2	64.9	53.3	66.0
8	5.8	5.4	51.8	61.3	46.0	55.8	48.8	58.7
10	6.5	6.0	50.3	60.7	43.8	54.5	47.3	58.3
16	8.2	7.7	47.3	56.1	39.1	48.3	44.3	53.7
20	9.3	8.6	45.8	55.3	36.5	46.5	42.8	52.9
25	10.4	9.6	44.3	53.8	33.9	44.0	41.3	51.4
31.25	11.7	10.8	42.9	52.7	31.2	41.6	39.9	50.0
62.5	17.0	15.5	38.4	48.0	21.4	32.2	35.4	45.5
100	22.0	19.8	35.3	44.5	13.3	24.2	32.3	42.2

Frequency MHz	PS-ACR (dB/100m) Minimum		Return Loss (dB/100m) Minimum		ELFEXT (ACRF) (dB/100m) Minimum		PS-ELFEXT (PSACRF) (dB/100m) Minimum	
	TIA 568-B.2	Superior Essex	TIA 568-B.2	Superior Essex	TIA 568-B.2	Superior Essex	TIA 568-B.2	Superior Essex
	Calculated	Typical	Specified	Typical	Specified	Typical	Specified	Typical
1	60.3	73.3	20.0	40.1	63.8	69.2	60.8	68.5
4	49.2	62.2	23.0	40.1	51.7	57.7	48.7	57.0
8	43.0	53.2	24.5	39.8	45.7	51.6	42.7	49.5
10	40.8	52.2	25.0	37.3	43.8	49.0	40.8	48.2
16	36.1	46.0	25.0	36.7	39.7	45.6	36.7	43.8
20	33.5	44.2	25.0	36.0	37.7	43.6	34.7	42.8
25	30.9	41.7	24.3	34.5	35.8	42.0	32.8	40.7
31.25	28.2	39.0	23.6	32.6	33.9	40.1	30.9	39.3
62.5	18.4	29.9	21.5	31.6	27.8	34.7	24.8	33.5
100	10.3	22.1	20.1	31.7	23.8	30.4	20.8	29.4

Input Impedance (Ohms) Guaranteed	Delay Skew (ns/100m)		Velocity of Propagation (%) Nominal	DC Resistance (Ohms/100m)		Resistance Unbalance (%)	
	Maximum	Typical		Maximum	Typical	Maximum	Typical
100+/-15 @ 1-100MHz	45	21	69	9.38	9.00	5.0	0.7

Standards Compliance:

UL 444, UL 1581, ANSI/TIA/EIA 568-B.2, ANSI/TIA/EIA 570-B Residential Telecommunications Cabling Standard, ANSI/ICEA S-90-661-2002, Listed as CMX (Outdoor) & UL 1666 (CMR).