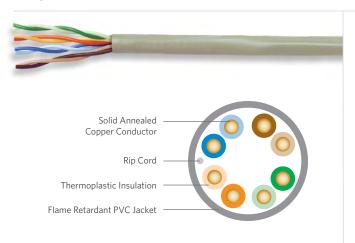
Marathon LAN® Category 5e

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 ANSI/TICEA S-90-661-2012 Article 800, NEC (NFPA 70)
NRTL Programs	UL or ETL Verified CAT 5e UL, c(UL) Listed CMR UL, c(UL) Listed CMP
Sustainability	UL Certified EPD HPD Multi-Attribute Certification USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY to offer products that contribute toward LEED!

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

ColorTip® circuit

identification system

Color coded box labels

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FEATURES	BENEFITS
UL Certified Environmental Product Declaration (EPD)	 Contributes toward 1 LEED point under the Material and Resources credit (MRc)
 Health Product Declaration™ (HPD™) 	 Contributes toward 1 LEED point under the MRc
Multi-Attribute Certification by GreenCircle Certified, LLC	 Offers an overview of the sustainability of a product, its packaging and manufacturing
 Meets ANSI/TIA-568-C.2 specification 	Provides cost-effective solution
Tested to 350 MHz	 Assures ample bandwidth headroom
"WideMouth" POP™ box design	Reduces tension on wire to ensure proper electrical performance after installation
CableID® alpha numeric code printed every 2 feet	 Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
 QuickCount marking system in feet and meters 	 Provides remaining length of cable on reel

• Easily identifiable conductor

• Easily identifies jacket colors

mates even in low-light environments

PART NUMBERS AND PHYSICAL CHARACTERISTICS							
Listing	Part Number ¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package			
CMR	51-xxx-y5	0.18 (4.6)	17 (25)	use key			
CMP	51-xxx-y8	0.19 (4.8)	19 (28)	use key			

PACKAGING								
	150 ft Coil	200 ft Coil	250 ft Coil	300 ft Coil	1,000 ft POP Box	1,000 ft Reel-in-a-box	1,000 ft Plywood Reel	2,500 ft Plywood Reel
¹ Replace "xxx" with:	225	229	230	231	CMR: 240 CMP: 241	243	220	273
Packages per Pallet	240	120	144	120	45	45	36	16

JACKET COLORS										
¹ Replace "y" with:	Blue = 2	Gray = 3	White = 4	Green = 5	Yellow = 6	Purple = 7	Red = 9	Pink = C	Orange = D	Black = E



37.1

ELECTRICAL SPECIFICATIONS ACR Minimum Insertion Loss @ 20°C Maximum **NEXT Minimum** PSNEXT Minimum dB/100 m dB/100 m dB/100 m dB/100 m TIA-568-C.2 Superior Essex TIA-568-C.2 Superior Esse TIA-568-C.2 Superior Esse TIA-568-C.2 **Superior Essex** Frequency МНz Specified Typical Specified Typical Calculated Typical Specified Typical 1 2.0 1.8 653 76.8 63.3 81.0 623 75.3 4 4.1 3.7 56.3 67.8 52.2 70.1 53.3 66.3 8 5.8 5.4 51.8 63.3 46.0 63.9 48.8 61.8 10 6.5 6.0 50.3 61.8 43.8 61.8 47.3 60.3 57.2 16 8.2 7.7 47.2 58.7 39.0 57.0 44.3 20 9.3 8.6 45.8 57.3 36.5 54.7 42.8 55.8 25 10.4 9.6 44.3 55.8 33.9 52.2 41.3 54.3 31 25 117 42.9 54 4 31 2 39 9 52 9 10.8 49 6 62.5 17.0 15.5 38.4 49.9 21.4 40.4 35.4 48.4 100 22.0 19.8 35.3 46.8 13.3 33.0 32.3 45.3 155 24.8 43.9 25.1 42.4 200 28.2 42.3 20.1 40.8 250 31.8 40.8 15.0 39.3 300 35.0 39.6 10.6 38.1

		Minimum 00 m		Return Loss Minimum dB/100 m		Minimum 00 m	PSELFEXT Minimum dB/100 m		
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	
MHz	Calculated	Typical	Specified	Typical	Specified	Typical	Specified	Typical	
1	60.3	78.3	20.0	33.0	63.8	74.6	60.8	69.3	
4	49.2	67.4	23.0	36.0	51.8	62.6	48.8	57.3	
8	43.0	61.2	24.5	37.5	45.7	56.5	42.7	51.2	
10	40.8	59.1	25.0	38.0	43.8	54.6	40.8	49.3	
16	36.1	54.3	25.0	38.0	39.7	50.5	36.7	45.2	
20	33.5	52.0	25.0	38.0	37.8	48.6	34.8	43.3	
25	30.9	49.5	24.3	37.3	35.8	46.6	32.8	41.3	
31.25	28.2	46.9	23.6	36.6	33.9	44.7	30.9	39.4	
62.5	18.4	37.7	21.5	34.5	27.9	38.7	24.9	33.4	
100	10.3	30.3	20.1	33.1	23.8	34.6	20.8	29.3	
155		22.4		31.8		30.8		25.5	
200		17.4		31.0		28.6		23.3	
250		12.3		30.3		26.6		21.3	
300		7.9		29.8		25.1		19.8	
350		3.6		29.3		23.7		18.4	

38.6



350



38.3







6.3



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