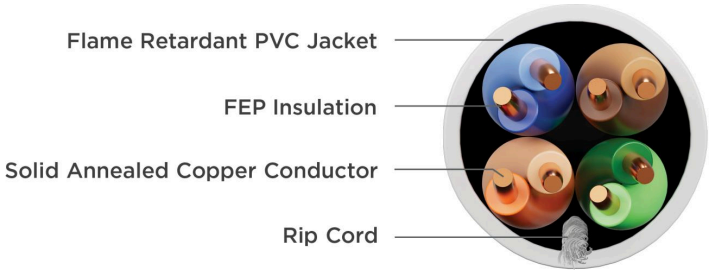
Premises Copper > Indoor > Category 5e > 4 Pairs > 24 AWG

4X24 Marathon C5E / CMP / White / 1K FT POP™ Box

CMP

Part Number: 51-241-48
Status: Available





MADE IN THE USA

RoHS

GENERAL SPECIFICATIONS

Jacket	PVC
End User Application	LAN
Pairs	4
Conductor	Bare Copper
Conductor Type	Solid
Conductor Description	Solid annealed copper
Conductor Count	8
AWG (mm)	24 (0.51)
Insulation	FEP
Insulation Colors	ColorTip®: Pair 1: Light Blue / Blue Pair 2: Light Orange / Orange Pair 3: Light Green / Green Pair 4: Light Brown / Brown
Characteristic Impedance (Ohms)	100 ± 15
Nominal Velocity of Propagation (%)	74
Temperature Rating	90°C

COMPLIANCE & SUSTAINABILITY

Standards Compliance	UL 444 CSA C22.2 No. 214-08 NFPA 262 ANSI/TIA-568.2-E

COMPLIANCE & SUSTAINABILITY

	Article 800, NEC (NFPA 70) RoHS-compliant
NRTL Programs	UL Verified CAT 5e UL, c(UL) Listed CMP

PHYSICAL CHARACTERISTICS

Nominal Weight lbs/kft (kg/km)	19 (28)
Pallet Quantity (ft)	45,000
Package Length	1,000
Package Type	POP™ Box
Packages per Pallet	45
Standard Length ft (m)	1,000 (305)

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-568.2-E 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. Part number 51-241-48 is the plenum-rated (CMP) white version: a 4-pair, 24 AWG UTP construction with solid annealed copper conductors, FEP insulation and a PVC jacket. Supplied in a POP™ Box.

Applications

- 10BASE-T through 1000BASE-T Ethernet
- Power-over-Ethernet (PoE) – IEEE 802.3bt Type 1 to 4
- ATM and token ring

Features

- Meets ANSI/TIA-568.2-E specification
- Tested to 350 MHz
- QuickCount® marking system in feet and meters
- ColorTip® circuit identification system

Benefits

- Provides cost-effective solution
- Assures ample bandwidth headroom
- Provides remaining length of cable on reel
- Easily identifiable conductor mates even in low-light environments mates even in low-light

Technical Guideline

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Technical Guideline TG029 "Premises Cable Temperature Guidelines" provides operating, storage and installation temperature ranges for premises cables. Click here for more information.

SUSTAINABILITY CERTIFICATIONS

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		PSACR Minimum dB/100 m		Return Loss Minimum dB/100 m		ELFEXT (ACRF) Minimum dB/100 m		PSELFEXT (PSACRF) Minimum dB/100 m	
	TIA-568.2-E	Superior Essex	TIA-568.2-E	Superior Essex	TIA-568.2-E	Superior Essex	TIA-568.2-E	Superior Essex	TIA-568.2-E	Superior Essex	TIA-568.2-E	Superior Essex	TIA-568.2-E	Superior Essex	TIA-568.2-E	Superior Essex
	Specified	Typical	Specified	Typical	Calculated	Typical	Specified	Typical	Calculated	Typical	Specified	Typical	Specified	Typical	Specified	Typical
1	2.0	1.8	65.3	76.8	63.3	81.0	62.3	75.3	60.3	78.3	20.0	33.0	63.8	74.6	60.8	69.3
4	4.1	3.7	56.3	67.8	52.2	70.1	53.3	66.3	49.2	67.4	23.0	36.0	51.8	62.6	48.8	57.3
8	5.8	5.4	51.8	63.3	46.0	63.9	48.8	61.8	43.0	61.2	24.5	37.5	45.7	56.5	42.7	51.2
10	6.5	6.0	50.3	61.8	43.8	61.8	47.3	60.3	40.8	59.1	25.0	38.0	43.8	54.6	40.8	49.3
16	8.2	7.7	47.2	58.7	39.0	57.0	44.3	57.2	36.1	54.3	25.0	38.0	39.7	50.5	36.7	45.2
20	9.3	8.6	45.8	57.3	36.5	54.7	42.8	55.8	33.5	52.0	25.0	38.0	37.8	48.6	34.8	43.3
25	10.4	9.6	44.3	55.8	33.9	52.2	41.3	54.3	30.9	49.5	24.3	37.3	35.8	46.6	32.8	41.3
31.25	11.7	10.8	42.9	54.4	31.2	49.6	39.9	52.9	28.2	46.9	23.6	36.6	33.9	44.7	30.9	39.4
62.5	17.0	15.5	38.4	49.9	21.4	40.4	35.4	48.4	18.4	37.7	21.5	34.5	27.9	38.7	24.9	33.4
100	22.0	19.8	35.3	46.8	13.3	33.0	32.3	45.3	10.3	30.3	20.1	33.1	23.8	34.6	20.8	29.3
155	–	24.8	–	43.9	–	25.1	–	42.4	–	22.4	–	31.8	–	30.8	–	25.5
200	–	28.2	–	42.3	–	20.1	–	40.8	–	17.4	–	31.0	–	28.6	–	23.3
250	–	31.8	–	40.8	–	15.0	–	39.3	–	12.3	–	30.3	–	26.6	–	21.3
300	–	35.0	–	39.6	–	10.6	–	38.1	–	7.9	–	29.8	–	25.1	–	19.8
350	–	38.3	–	38.6	–	6.3	–	37.1	–	3.6	–	29.3	–	23.7	–	18.4

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