



CAT.5e U/UTP Horizontal Cable, 24AWG×4P TYPE **CMR-CMX Outdoor & Sunlight Resistance**

STANDARD COMPLIANCES

All Proposed Category 5e Requirements as per ANSI/TIA, ISO/IEC, and CENELEC EN Standards:

ANSI/TIA-568-C.2 Cat.5e

ISO/IEC 2nd Edition 11801 Class D

CENELEC EN 50173-1

IEC 61156-5, CENELEC EN 50288-3-1 for horizontal cable

Flame Retardancy is verified according to IEC UL 1666

Sunlight-resistant test is verified according to UL 444

Our products always comply with ROHS and REACH Directives.

CONSTRUCTION & CHARACTERISTICS

Conductor	Material / Size	Bare Copper / 24AWG
Insulation	Material	FRPE
	Thickness	Nominal: 0.194 mm
	Diameter	Nominal: 0.90 mm
	Colors	Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown
	Unaged Elongation	Min. 100%
	Unaged Tensile Strength	Min. 0.847 Kgf/mm ²
Jacket	Material	PVC (Type CMR-CMX with sunlight resistance)
	Thickness	Nominal: 0.5 mm
	Diameter	Nominal: 5.2 mm
	Color	Assorted upon request
	Unaged Elongation	Min. 100%
	Unaged Tensile Strength	Min. 1.407 Kgf/mm ²
	Aging at 100°C for 168Hrs	Min. elongation retention:50% Min. tensile strength retention:85%
Marking		CAT.5E UTP INSTALLATION CONFORMS TO ANSI/TIA-568-C.2 & ISO/IEC 11801 ED.2 & EN 50288-3-1 & IEC 60332-1-2 ▲24AWGX4P TYPE CMX Outdoor - CMR (sun res) (UL) c(UL) E164469 [XXXXXXXXM]

APPROVALS

UL/cUL Listed



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APPLICATIONS

1000BASE-T Gigabit Ethernet
 10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3)
 100 VG - AnyLAN(IEEE802.12), 155/622 Mbps ATM
 550MHz Broadband Video
 Voice, T1, ISDN

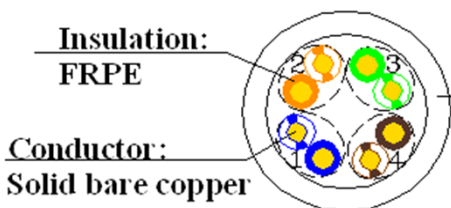
ELECTRICAL PERFORMANCES

Dielectric Strength of Insulation		1200 V dc or 850 V ac / 2 seconds		
Insulation Resistance Test		Min. 5000 MΩ/m		
Conductor Resistance		Max. 9.38 Ω/100m at 20°C		
Resistance Unbalance		Max. 2%		
Capacitance Unbalance		Max. 160 pF/100m		
Mutual Capacitance		Max. 5600 pF/100m		
Impedance	1~100MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Max.Attenuation (dB/100 meters)	NEXT (dB), Min.	PSNEXT (dB), Min.
	1 MHz	2.0*	65.3*	62.3*
	4 MHz	4.1*	56.3*	53.3*
	10 MHz	6.5*	50.3*	47.3*
	16 MHz	8.2*	47.2*	44.2*
	20 MHz	9.3*	45.8*	42.8*
	31.25 MHz	11.7*	42.9*	39.9*
	62.5 MHz	17.0*	38.4*	35.4*
	100 MHz	22.0*	35.3*	32.3*

The asterisked (*) value are for information only. The minimum Next coupling loss for any pair combination at room temperature is to be greater than the value determined using the formula:

$$NEXT(f \text{ MHz}) \geq NEXT(0.772) - 15 \text{ LOG } 10(f \text{ MHz}/0.772) \text{ dB}$$

CONFIGURATION



PVC Jacketing:
 Type CMR-CMX with sun res

orange 2	green 3
white/orange	white/green
blue 1	brown 4
white/blue	white/brown

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ORDER INFORMATION

Part No.: 5ECMRX-BX

Cable Marking: PSI DATA UTP CAT5e ETL VERIFIED TO ANSI/TIA-568-C.2 ▲ 24AWG 4PR (UL) CMX
OUTDOOR - CMR E164469 XXXXFT