

# CAT5E 24AWG/4PAIR CM 100MHz U/UTP STRANDED PATCH CABLE

**PART NO. 5ECMSTRXX**



## DESCRIPTION

- 24AWG 4Pair U/UTP Category 5E Stranded patch cable tested to 100 MHz. Available on Wood Reels & Pull Box.

## FEATURES AND BENEFITS

- Structured Cabling for Ethernet Networks
- Unique pair twisting for balanced line signaling
- Performance guaranteed to 100 MHz
- Sequential footage markings
- Verified by third-party for guaranteed performance

## APPLICATIONS

- IEEE 802.3: 1000Base-T, 100 Base-TX, 10Base-T, PoE, PoE+
- CDDI, Token Ring, ATM
- Digital Video
- Broadband and Baseband Analog Video

## STANDARD COMPLIANCES

- ANSI/TIA 568-C.2
- ANSI/TIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class EI)
- ICEA 8-102-700 (Category 6 or 5E)
- REACH Compliant
- CPR Compliant (Fully Comply to 305/2011 & EN 50575:2014-09)
- RoHS Compliant Directive 2002/95/EG

## PHYSICAL PROPERTIES

Conductor	Material	Stranded Bare Copper
	Nominal Outside Diameter (mm)	0.500±0.05
Insulation	Material	HDPE
	Diameter (± 0.05mm)	0.96
Screen Material		None
Construction		CM/Non-Plenum
Jacket	Material	FR-PVC
	Average Thickness (mm)	0.54
	Minimum Point Thickness (mm)	0.7
	Outside Diameter (±0.2mm)	5.7
Rip Cord:		Yes
Drain Wire:		None
Packing	Length	1000ft/Pull Box & Wood Reel
	Weight	24lbs Pull Box/28lbs Wood Reel
Voltage Rating (Max)		300V
Flame Test Method		CM



## ELECTRICAL CHARACTERISTICS

1.0 - 125MHz characteristic impedance (ohms)		100Ω±15
125MHz Delay Skew (ns/100m)		≤45
Pair-to-Ground Capacitance Unbalance (Pf/100m)		160Max
Max. Conductor DC Resistance Unbalance (%)		9.5Ω/100m
Max. Resistance Unbalance (%)		2
Max Mutual Capacitance		5600 pF/100m
Max DC Loop Resistance		25
Min DC Insulation Resistance		2850 V DC/2 seconds
Max Propagation Delay Skew		45
Before Aging	Tensile Strength (Mpa)	≥13.8
	Elongation (%)	≥100
After Aging	Tensile Strength (Mpa)	≥75% of unaged
	Elongation (%)	≥50% of unaged
Aging Period (°C x hrs)		100x168
Cold Bend (No Visible Crack)		-40±2°C
Temperature Range		-20 ~ 75°C
Velocity of Propagation (%) NVP		69



1000' Wood Reel

Weight: 28 lbs.



1000' Pull Box

Weight: 24 lbs.

## AVAILABLE CATEGORY 5E (PART NUMBERS)

PVC	Plenum	Shielded	Shielded Plenum	Direct Burial	Shielded Direct Burial
5ECMR150CO	5ECMP244Bx	5ESHDCMRBx	5ESHDCMPBx	5EOUT244RB	5EOUTGSHDRB
5ECMR244Bx	5ECMP150CO			5EOUTG244RB	5EOUTWSHDRB
5ECMR2425RG	5ECMP2425RO			5EOUTW244RB	5EOUTSHDDJRB
<b>5ECMSTRXX</b>				5EOUTA244RB	

Toll Free: (866) 945-5051  
Local: (770) 945-5051  
Fax: (770) 945-9582  
www.commoditycables.com



\*All values in this specification are nominal and are subjective to tolerances of +/- 10 to 15%.  
It is the sole responsibility of the user to have the most current specification. Specifications are subject to change without notice\*

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## ELECTRICAL PERFORMANCE

ACRF - Attenuation to Crosstalk Ratio - Far End (dB/100m)

NEXT - Near End Crosstalk (dB/100m)

ACR - Attenuation to Crosstalk Ratio (dB/100m)

PSNEXT - Power Sum Near End Crosstalk (dB/100m)

ELFEXT - Equal Level Far End Crosstalk (dB/100m)

PSELFEXT - Power Sum Equal Level Far End Crosstalk (dB/100m)

RL - Return Loss (dB)

TCL - Transverse Conversion Loss (dB/100m)

ATT - Attenuation (dB/100m)

FREQUENCY (MHz)	ATT (dB/100m)	RL (dB)	ACR (dB)	Next (dB)	PSNEXT (dB)	TCL (dB/100m)	PHASE DELAY	ELFEXT (dB/100m)	PSELFEXT dB/100m)
1	2.0	n/s	n/s	65.3	62.3	n/s	n/s	58.6	n/s
4	4.1	n/s	n/s	56.3	53.3	n/s	n/s	46.6	n/s
8	5.8	n/s	n/s	51.8	48.8	n/s	n/s	n/s	n/s
10	6.5	n/s	n/s	50.3	47.3	n/s	n/s	n/s	n/s
16	8.2	n/s	n/s	47.2	44.2	n/s	n/s	n/s	n/s
20	9.3	n/s	n/s	45.8	42.8	n/s	n/s	n/s	n/s
25	10.4	n/s	n/s	44.3	41.3	n/s	n/s	n/s	n/s
31.25	11.7	n/s	n/s	42.9	39.9	n/s	n/s	n/s	n/s
62.5	17.0	n/s	n/s	38.4	35.4	n/s	n/s	n/s	n/s
100	22.0	n/s	n/s	35.3	32.3	n/s	n/s	n/s	n/s
125	24.9	n/s	n/s	33.8	30.8	n/s	n/s	n/s	n/s

\*Electrical performance with frequency over 125MHz is only for reference\*

## JACKETS ABBREVIATION

AVAILABLE JACKET COLORS				Black	B	Last alphabetical character of each part number indicates the color code that the Jacket is available in. For example Part # 6CMR244Bx ("x" indicates all the colors to the left are available for this product.
STANDARD	BLUE	WHITE	GRAY	White	W	
	BLACK	YELLOW		Gray	G	
	SPECIAL			Blue	O	
INSULATION COLORS				Yellow	Y	
PAIR 1	BLUE	WHITE	Green	V		
PAIR 2	ORANGE	WHITE	Orange	OR		
PAIR 3	GREEN	WHITE	Purple	P		
PAIR 4	BROWN	WHITE	Red	R		
			Pink	PI		

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