

CAT5E 24AWG/4PAIR CMR 350MHz U/UTP

PART NO. 5ECMR244BX



DESCRIPTION

- 24 AWG 4Pair U/UTP Category 5E cable tested to 350 MHz. Available in Pull Box / Speed Bag

FEATURES AND BENEFITS

- Structured Cabling for Ethernet Networks
- Unique pair twisting for balanced line signaling
- Performance guaranteed to 350 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	Copper
	Nominal Outside Diameter (mm)	0.46
Insulation	Material	HDPE
	Diameter (± 0.05mm)	0.86
Screen Material		None
Construction		CMR/Non-Plenum
Jacket	Material	FR-PVC
	Average Thickness (mm)	0.55
	Minimum Point Thickness (mm)	0.50
	Outside Diameter (±0.2mm)	5.0
Rip Cord:		250D Nylon
Drain Wire:		None
Packing	Length	1000ft
	Weight	18 lbs
Voltage Rating (Max)		300V
Flame Test Method		CMR



ELECTRICAL CHARACTERISTICS

1.0 - 250.0MHz characteristic impedance (ohms)		100±15
250-650.0MHz Delay Skew (ns/100m)		45
Pair-to-Ground Capacitance Unbalance (Pf/100m)		53
Max. Conductor DC Resistance Unbalance (%)		115
Max. Resistance Unbalance (%)		3
Max Mutual Capacitance		330
Max DC Loop Resistance		25
Min DC Insulation Resistance		-
Max Propagation Delay Skew		45
Before Aging	Tensile Strength (Mpa)	≥13.8
	Elongation (%)	≥100
After Aging	Tensile Strength (Mpa)	≥85% of unaged
	Elongation (%)	≥50% of unaged
Aging Period (°C x hrs)		100x240
Cold Bend (No Visible Crack)		-40±2°C
Temperature Range		-20 ~ 75°C
Velocity of Propagation (%) NVP		68



1000' Pull Box
Weight: 18 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
5ECMSTRxx				5EOUTA244RB	

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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Local: (770) 945-5051
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www.commoditycables.com



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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	2.2	20.0	63.1	65.3	62.3	n/s	570.0	63.8	60.8
4	4.3	23.0	52.0	56.3	53.3	n/s	552.0	51.7	48.7
8	6.38	24.5	45.42	51.8	48.8	n/s	546.7	45.7	42.7
10	7.15	25.0	43.15	50.3	47.3	n/s	545.4	43.8	40.8
16	9.02	25.0	38.18	47.2	44.2	n/s	543.0	39.7	36.7
20	10.23	25.0	35.57	45.8	42.8	n/s	542.1	37.7	34.7
25	11.44	24.3	32.86	44.3	41.3	n/s	541.2	35.8	32.8
31.25	12.87	23.6	30.03	42.9	39.9	n/s	540.4	33.9	30.9
62.5	18.7	21.5	19.7	38.4	35.4	n/s	538.6	27.8	24.8
100	24.2	20.1	11.1	35.3	32.3	n/s	537.6	23.8	20.8
200	---	18.0	---	30.8	27.8	n/s	536.5	17.7	14.7
350	---	16.3	--	27.2	26.3	n/s	535	12.9	9.9

Electrical performance with frequency over 250MHz is only for reference

AVAILABLE JACKET COLORS			
STANDARD	BLUE	WHITE	GRAY
	BLACK	RED	GREEN
	YELLOW	ORANGE	PURPLE
	PINK		
SPECIAL	Per Customer Request*		
INSULATION COLORS			
PAIR 1	BLUE	WHITE	
PAIR 2	ORANGE	WHITE	
PAIR 3	GREEN	WHITE	
PAIR 4	BROWN	WHITE	

JACKETS ABBREVIATION

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.
White	W	
Gray	G	
Blue	O	
Yellow	Y	
Green	V	
Orange	OR	
Purple	P	
Red	R	
Pink	PI	

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