

PART NO: 5ECMSTRXX

DESCRIPTION

- 24 AWG 4Pair U/UTP Category 5E Stranded patch cable tested to 350 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)	24AWG(7/0.20)		
Insulation	Material	HDPE		
	Diameter (± 0.05mm)	0.97±0.05mm		
Color	A. Blue, White-Blue	B. Orange, White-Orange		
	C. Green, White-Green	D. Brown, White-Brown		
Rip-cord	Yes	Drain wire	N/A	
Shielded	N/A			
Sheath	Thickness	0.55±0.05 mm		
	External O.D	5.5±04 mm		
	Surface	Clean, Frap, Satiation		
	Material	PVC(complies RoHS)		
Surface Printing	Color	TBD		
	Letter height	3.0±0.3mm		
	Color	Black		
Packing	Print error & Space	≤±0.5%, 1m		
	Packing	Wooden Tray & Carton		
Carton Dimension	According to the requires			
Packing length	305±1.5m			
Sheath Physical Properties	Before Ag- ing	Tesile Strength (Mpa)	≥13.5	
		Elongation (%)	≥150	
	Aging Period (°C X hrs)		100°C X 24h X 7d	
	After Aging	Tensile Strength (Mpa)	≥12.5	
		Elongation (%)	≥125	
Cold bend (-20±2°CX4h)		No visible cracks		
Electrical Character- istics (20°C)	1.0-100.0MHz Impedance(Ω)		100±15	
	100-350.0MHz Impedance(Ω)		reference values	
	1.0-350.0MHz Delay Skew (ns/100m)		≤45	
	DC Resistance 20°C(Ω/100m)max		9.5	

1000' Wood Reel
Weight: 28 lbs.
1000' Pull Box
Weight: 24 lbs.

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



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*

CAT5E 24AWG/4PAIR CM 350MHz U/UTP STRANDED PATCH CABLE

PART NO. 5ECMSTRXX

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	RL dB	Next dB	PSNEXT dB	DELAY ns	ELFEXT dB	PSELFEXT dB
1	2.47	20.0	65.3	62.3	570.00	63.8	60.8
4	4.87	23.0	56.3	53.3	552.00	51.8	48.8
8	6.92	24.5	51.3	48.8	546.73	45.7	42.7
10	7.76	25.0	50.3	47.3	545.38	43.8	40.8
16	9.90	25.0	47.2	44.4	543.00	39.7	36.7
20	11.12	25.0	45.8	42.8	542.05	37.8	34.8
25	12.51	24.2	44.3	41.3	541.20	35.8	32.8
31.25	14.07	23.6	42.9	39.9	540.44	33.9	30.9
62.5	20.40	21.5	38.4	35.4	538.55	27.9	24.9
100	26.39	20.1	35.3	32.3	537.60	23.8	20.8
155	33.77	18.0	32.4	29.4	536.90	20.0	17.0
200	39.03	17.4	30.8	27.8	536.50	17.8	14.8
300	49.35	16.5	29.3	26.3	536.10	14.3	11.3
350	54.03	16.0	27.1	24.1	535.90	12.9	9.9

Electrical performance with frequency over 125MHz is only for reference

JACKETS ABBREVIATION

AVAILABLE JACKET COLORS			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		Black
	BLACK	YELLOW		White
SPECIAL	Per Customer Request*			Gray
INSULATION COLORS			Blue	
PAIR 1	BLUE	WHITE	Yellow	
PAIR 2	ORANGE	WHITE	Green	
PAIR 3	GREEN	WHITE	Orange	
PAIR 4	BROWN	WHITE	Purple	
			Red	
			Pink	

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