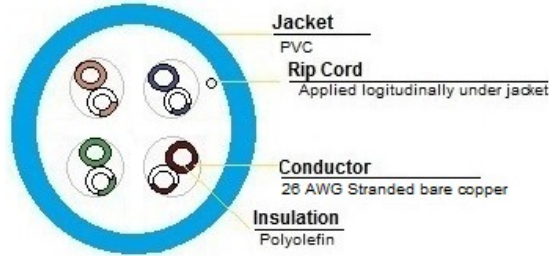


CAT5E 24AWG/4PAIR CM 100MHz U/UTP STRANDED PATCH CABLE

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

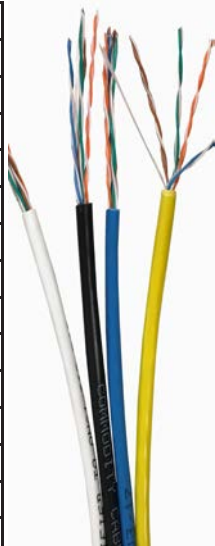
- IEEE 802.3: 1000Base-T, 100 Base-TX, 10Base-T, PoE, PoE+
- CDDI, Token Ring, ATM
- Digital Video
- Broadband and Baseband Analog Video

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
5ECMSTRXX				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

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/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	Per Customer Request*			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		

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*