

### DESCRIPTION

- 24 AWG 4Pair U/UTP Category 5E cable tested to 350 MHz. Available on Wood Reels

### FEATURES AND BENEFITS

- Structured cabling for Ethernet Networks
- Protects against environmental elements that can cause electrical performance failures
- Prevents moisture migration
- Performance guaranteed to 350 MHz
- Sequential footage markings
- UV Resistant
- Verified by third-party for guaranteed performance

### APPLICATIONS

- IEEE 802.3 1000Base-T, 100Base-TX, 10Base-T, PoE, PoE+
- CDDI, Token Ring, ATM
- Armored: aerial, duct and buried installations
- 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)	0.50
Insulation	Material	HDPE
	Diameter (± 0.05mm)	0.90
Steel Wires		1.2mm
Screen Material		None
Construction		Direct Burial/Aerial W/Messenger
Jacket	Material	LLDPE
	Average Thickness (mm)	0.55
	Minimum Point Thickness (mm)	0.50
	Outside Diameter (±0.2mm)	5.1x2.1
Rip Cord:		250D Nylon
Drain Wire:		None
Packing	Length	1000ft/Wood Reel
	Weight	21 lbs

### 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 (%)		95
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 (%)	≥300
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		-40 ~ 75°C
Velocity of Propagation (%) NVP		68

1000' Wood Reel  
Weight: 21 lbs.

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



### AVAILABLE CATEGORY 6 (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 350MHz U/UTP DIRECT BURIAL AERIAL W/MESSENGER

**PART NO. 5EOUTA244RX**

## 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	20.0	63.3	65.3	62.3	n/s	570.0	63.8	60.8
4	4.1	23.0	52.2	56.3	53.3	n/s	552.0	51.7	48.7
8	5.8	24.5	46.0	51.8	48.8	n/s	546.7	45.7	42.7
10	6.5	25.0	43.8	50.3	47.3	n/s	545.4	43.8	40.8
16	8.2	25.0	39	47.2	44.2	n/s	543.0	39.7	36.7
20	9.3	25.0	36.5	45.8	42.8	n/s	542.1	37.7	34.7
25	10.4	24.3	33.9	44.3	41.3	n/s	541.2	35.8	32.8
31.25	11.7	23.6	31.2	42.9	39.9	n/s	540.4	33.9	30.9
62.5	17.0	21.5	21.4	38.4	35.4	n/s	538.6	27.8	24.8
100	22	20.1	13.3	35.3	32.3	n/s	537.6	23.8	20.8
200	29.0	18.0	1.8	30.8	27.8	n/s	536.5	17.7	14.7
350	44.9	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	BLACK	
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	

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\*