

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

PART NO. 5ECMP150CO



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)	0.50
Insulation	Material	FEP
	Diameter ($\pm 0.05\text{mm}$)	0.90
Screen Material		None
Construction		Unshielded/Plenum
Jacket	Material	Low Smoke FR-PVC
	Average Thickness (mm)	0.45
	Minimum Point Thickness (mm)	0.38
	Outside Diameter ($\pm 0.2\text{mm}$)	4.9
Rip Cord:		250D Nylon
Drain Wire:		None
Packing	Length	150ft/Coil
	Weight	31 lbs
Voltage Rating (Max)		300V
Flame Test Method		CMP



ELECTRICAL CHARACTERISTICS

1.0 - 250.0MHz characteristic impedance (ohms)		100 $\pm$ 15
250-650.0MHz Delay Skew (ns/100m)		45
Pair-to-Ground Capacitance Unbalance (Pf/100m)		53
Max. Conductor DC Resistance Unbalance (%)		3
Max. Resistance Unbalance (%)		5
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)	$\geq 85\%$ of unaged
	Elongation (%)	$\geq 50\%$ of unaged
Aging Period ($^{\circ}\text{C} \times \text{hrs}$)		100x240
Cold Bend (No Visible Crack)		-40 $\pm$ 2 $^{\circ}\text{C}$
Temperature Range		-25 ~ -75 $^{\circ}\text{C}$
Velocity of Propagation (%) NVP		45



6 Packs / 150' Speed Bag
Weight: 31 lbs.

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	

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



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

PART NO. 5ECMP244BX

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)	0.50
Insulation	Material	FEP
	Diameter (± 0.05mm)	0.90
Screen Material		None
Construction		Unshielded/Plenum
Jacket	Material	Low Smoke FR-PVC
	Average Thickness (mm)	0.45
	Minimum Point Thickness (mm)	0.38
	Outside Diameter (±0.2mm)	4.9
Rip Cord:		250D Nylon
Drain Wire:		None
Packing	Length	1000ft/Pull Box
	Weight	20 lbs
Voltage Rating (Max)		300V
Flame Test Method		CMP



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 (%)	≥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		70



1000' Pull Box
Weight: 20 lbs.

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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

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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	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	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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CAT5E 24AWG/25PAIR CMP 100MHz U/UTP

PART NO. 5ECMP2425RO

DESCRIPTION

- 24 AWG 25Pair U/UTP Category 5E cable tested to 100 MHz. Available on Wood Reels.

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

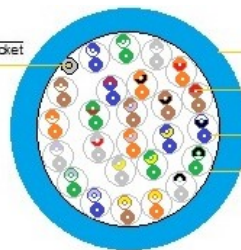
- IEEE 802.3: 1000Base-T, 100 Base-TX, 10Base-T, PoE, PoE+
- CDDI, Token Ring, ATM
- Digital Video
- Broadband and Baseband Analog Video

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

Rip Cord

Applied longitudinally under jacket



Jacket

LS FR-PVC

Insulation

Polyolefin

Conductor

24 AWG solid bare copper

Polyester Tape

Wrap



PHYSICAL PROPERTIES

Conductor	Material	Bare Copper
	Nominal Outside Diameter (mm)	25x2x0.50±0.05
Insulation	Material	FEP
	Diameter (± 0.03mm)	0.86
Filler		LSZH
Construction		Unshielded/Plenum
Jacket	Material	Low Smoke FR-PVC
	Average Thickness (mm)	0.5
	Minimum Point Thickness (mm)	0.7
	Outside Diameter (±0.2mm)	11.6
Rip Cord:		Yes
Drain Wire:		None
Packing	Length	1000ft/Wood Reel
	Weight	92 lbs
Voltage Rating (Max)		300V
Flame Test Method		CMP



ELECTRICAL CHARACTERISTICS

1.0 - 250.0MHz characteristic impedance (ohms)		100Ω±15
250-650.0MHz Delay Skew (ns/100m)		≤45
Pair-to-Ground Capacitance Unbalance (Pf/100m)		≤500
Max. Conductor DC Resistance Unbalance (%)		5.0
Max. Resistance Unbalance (%)		≤5
Max Mutual Capacitance		5.6nF/100m
Max DC Loop Resistance		25
Min DC Insulation Resistance		5000MΩ/Km
Max Propagation Delay Skew		45
Before Aging	Tensile Strength (Mpa)	≥17.2
	Elongation (%)	≥100
After Aging	Tensile Strength (Mpa)	≥85% of unaged
	Elongation (%)	≥75
Aging Period (°C x hrs)		100x240
Cold Bend (No Visible Crack)		-40±2°C
Temperature Range		-20 ~ 75°C
Velocity of Propagation (%) NVP		69



1000' Wood Reel

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	

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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	3.0	20.0	n/s	60.0	57.0	n/s	521	58.6	55.6
4	3.9	23.0	n/s	54.8	51.8	n/s	504	46.6	43.6
8	5.5	24.5	n/s	50.0	47.0	n/s	500	40.6	37.5
10	6.2	25.0	n/s	48.5	45.5	n/s	498	38.6	35.6
16	7.9	25.0	n/s	45.2	42.2	n/s	496	34.5	31.5
20	8.9	25.0	n/s	43.7	40.7	n/s	495	32.6	29.6
25	10.0	24.3	n/s	42.1	39.1	n/s	495	30.7	27.7
31.25	11.2	23.6	n/s	40.5	37.5	n/s	494	28.7	25.7
62.5	16.2	21.5	n/s	35.7	32.7	n/s	492	22.7	19.7
100	21.0	20.1	n/s	32.3	29.3	n/s	491	18.6	15.6

Electrical performance with frequency over 100MHz is only for reference

JACKETS ABBREVIATION

Black	B	Last alphabetical character of each part number
White	W	
Gray	G	indicates the color code
Blue	O	that the Jacket is available in. For example Part # 6CMR244Bx ("x" indicates all the colors to the left are available for this product.
Yellow	Y	
Green	Y	
Orange	OR	
Purple	P	
Red	R	
Pink	PI	

AVAILABLE JACKET COLORS			
STANDARD	BLUE		
SPECIAL	Per Customer Request*		
INSULATION COLORS			
PAIR 1	BLUE	WHITE	BLUE
PAIR 2	GREEN	WHITE	GREEN
PAIR 3	GRAY	WHITE	GRAY
PAIR 4	ORANGE	RED	ORANGE
PAIR 5	BROWN	RED	BROWN
PAIR 6	BLUE	BLACK	BLUE
PAIR 7	GREEN	BLACK	GREEN
PAIR 8	GRAY	BLACK	GRAY
PAIR 9	ORANGE	YELLOW	ORANGE
PAIR 10	BROWN	YELLOW	BROWN
PAIR 11	BLUE	VIOLET	BLUE
PAIR 12	GREEN	VIOLET	GREEN
PAIR 13	GRAY	VIOLET	GRAY
PAIR 14	ORANGE	WHITE	ORANGE
PAIR 15	BROWN	WHITE	BROWN
PAIR 16	BLUE	RED	BLUE
PAIR 17	GREEN	RED	GREEN
PAIR 18	GRAY	RED	GRAY

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

PART NO. 5ECMR150CO

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 ($\pm 0.05\text{mm}$)	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 ($\pm 0.2\text{mm}$)	5.0
Rip Cord:		250D Nylon
Drain Wire:		None
Packing	Length	150ft/Coil
	Weight	31 lbs
Voltage Rating (Max)		300V
Flame Test Method		CMR



ELECTRICAL CHARACTERISTICS

1.0 - 250.0MHz characteristic impedance (ohms)		100 $\pm$ 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)	$\geq 85\%$ of unaged
	Elongation (%)	$\geq 50\%$ of unaged
Aging Period ($^{\circ}\text{C} \times \text{hrs}$)		100x240
Cold Bend (No Visible Crack)		-40 $\pm$ 2 $^{\circ}\text{C}$
Temperature Range		-20 ~ 75 $^{\circ}\text{C}$
Velocity of Propagation (%) NVP		45



6 Packs / 150' Speed Bag
Weight: 31 lbs.

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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	

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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	
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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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
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- Sequential footage markings
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APPLICATIONS

- IEEE 802.3: 1000Base-T, 100 Base-TX, 10Base-T, PoE, PoE+
- CDDI, Token Ring, ATM
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STANDARD COMPLIANCES

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- 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.

Toll Free: (866) 945-5051
Local: (770) 945-5051
Fax: (770) 945-9582
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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 CMR 350MHz U/UTP

PART NO. 5ECMR244BX

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	

Toll Free: (866) 945-5051
Local: (770) 945-5051
Fax: (770) 945-9582
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*All values in this specification are nominal and are subjective to tolerances of +/- 10 to 15%.

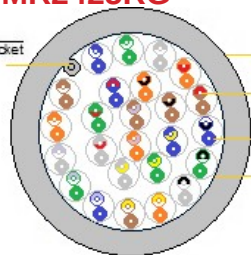
It is the sole responsibility of the user to have the most current specification. Specifications are subject to change without notice*

CAT5E 24AWG/25PAIR CMR 350MHz U/UTP

PART NO. 5ECMR2425RG

Rip Cord

Applied longitudinally under jacket



Jacket

PVC

Insulation

Polyolefin

Conductor

24 AWG solid bare copper

Polyester Tape

Wrap



DESCRIPTION

- 24 AWG 25Pair U/UTP Category 5E cable tested to 350 MHz. Available on Wood Reels.

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	Solid Bare Copper
	Nominal Outside Diameter (mm)	0.500±0.05
Insulation	Material	HDPE
	Diameter (± 0.05mm)	0.90
Screen Material		None
Construction		CMR/Non-Plenum
Jacket	Material	PVC
	Average Thickness (mm)	1.0
	Minimum Point Thickness (mm)	0.7
	Outside Diameter (±0.2mm)	13.2
Rip Cord:		Yes
Drain Wire:		None
Packing	Length	1000ft/Pull Box
	Weight	95 lbs
Voltage Rating (Max)		300V
Flame Test Method		CMR



ELECTRICAL CHARACTERISTICS

1.0 - 250.0MHz characteristic impedance (ohms)		100Ω±15
250-650.0MHz Delay Skew (ns/100m)		≤45
Pair-to-Ground Capacitance Unbalance (Pf/100m)		≤330
Max. Conductor DC Resistance Unbalance (%)		9.5Ω/100m
Max. Resistance Unbalance (%)		≤5
Max Mutual Capacitance		5.6nF/100m
Max DC Loop Resistance		25
Min DC Insulation Resistance		5000MΩ/Km
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		69



1000' Wood Reel
Weight: 95 lbs.

Toll Free: (866) 945-5051
Local: (770) 945-5051
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 subject 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/25PAIR CMR 350MHz U/UTP

PART NO. 5ECMR2425RG

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	3.0	19.0	n/s	60.0	57.0	n/s	521	58.6	55.6
4	3.9	19.0	n/s	54.8	51.8	n/s	504	46.6	43.6
8	5.5	19.0	n/s	50.0	47.0	n/s	500	40.6	37.5
10	6.2	19.0	n/s	48.5	45.5	n/s	498	38.6	35.6
16	7.9	19.0	n/s	45.2	42.2	n/s	496	34.5	31.5
20	8.9	19.0	n/s	43.7	40.7	n/s	495	32.6	29.6
25	10.0	18.0	n/s	42.1	39.1	n/s	495	30.7	27.7
31.25	11.2	17.1	n/s	40.5	37.5	n/s	494	28.7	25.7
62.5	16.2	14.1	n/s	35.7	32.7	n/s	492	22.7	19.7
100	21.0	12.0	n/s	32.3	29.3	n/s	491	18.6	15.6
200	26.7	9.0	n/s	27.3	24.3	n/s	490	12.6	9.6
300	30.9	7.2	n/s	24.4	21.4	n/s	490	9.1	6.1
350	42.6	6.6	n/s	23.3	20.3	n/s	490	7.7	4.7

Electrical performance with frequency over 250MHz is only for reference

AVAILABLE JACKET COLORS

STANDARD	GRAY		
SPECIAL	Per Customer Request*		
INSULATION COLORS			
PAIR 1	BLUE	WHITE	BLUE
PAIR 2	GREEN	WHITE	GREEN
PAIR 3	GRAY	WHITE	GRAY
PAIR 4	ORANGE	RED	ORANGE
PAIR 5	BROWN	RED	BROWN
PAIR 6	BLUE	BLACK	BLUE
PAIR 7	GREEN	BLACK	GREEN
PAIR 8	GRAY	BLACK	GRAY
PAIR 9	ORANGE	YELLOW	ORANGE
PAIR 10	BROWN	YELLOW	BROWN
PAIR 11	BLUE	VIOLET	BLUE
PAIR 12	GREEN	VIOLET	GREEN
PAIR 13	GRAY	VIOLET	GRAY
PAIR 14	ORANGE	WHITE	ORANGE
PAIR 15	BROWN	WHITE	BROWN
PAIR 16	BLUE	RED	BLUE
PAIR 17	GREEN	RED	GREEN
PAIR 18	GRAY	RED	GRAY

JACKETS ABBREVIATION

	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		
Gray		
Blue		
Yellow		
Green	V	
Orange		
Purple		
Red		
Pink		

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



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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

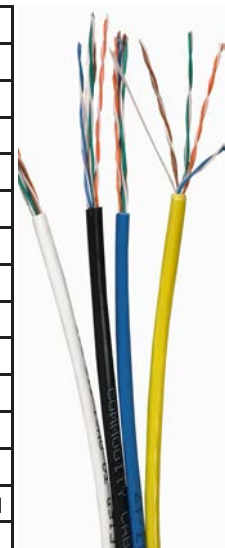
STANDARD COMPLIANCES

- 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.

Toll Free: (866) 945-5051
Local: (770) 945-5051
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/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*

CAT5E 24AWG/4PAIR 350MHz DIRECT BURIAL U/UTP

PART NO. 5EOUT244RB



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 Resistent
- Verified by third-party for guaranteed performance

APPLICATIONS

- IEEE 802.3 1000Base-T, 100Base-TX, 10Base-T, PoE, PoE+
- CDDI, Token Ring, ATM
- 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
Screen Material		None
Construction		Direct Burial
Jacket	Material	LLDPE
	Average Thickness (mm)	0.55
	Minimum Point Thickness (mm)	0.50
	Outside Diameter (±0.2mm)	5.1
Rip Cord:		250D Nylon
Drain Wire:		None
Packing	Length	1000ft/Wood Reel
	Weight	19 lbs
Voltage Rating (Max)		300V



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



1000' Wood Reel
Weight: 19 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 DIRECT BURIAL U/UTP

PART NO. 5EOUT244RB

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

JACKETS ABBREVIATION

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

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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Fax: (770) 945-9582
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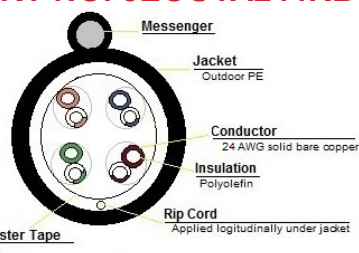


*All values in this specification are nominal and are subjective to tolerances of +/- 10 to 15%.

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. 5EOUTA244RB



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 Resistent
- Verified by third-party for guaranteed performance

APPLICATIONS

- IEEE 802.3 1000Base-T, 100Base-TX, 10Base-T, PoE, PoE+
- CDDI, Token Ring, ATM
- 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
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
Messenger:		1.2 mm
Packing	Length	1000ft/Wood Reel
	Weight	21 lbs
Voltage Rating (Max)		300V



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.

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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	

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CAT5E 24AWG/4PAIR 350MHz U/UTP DIRECT BURIAL AERIAL W/MESSENGER

PART NO. 5EOUTA244RB

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

JACKETS ABBREVIATION

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

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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CAT5E 24AWG/4PAIR 350MHz U/UTP DIRECT BURIAL GEL FILLED

PART NO. 5EOUTG244RB

DESCRIPTION

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

FEATURES AND BENEFITS

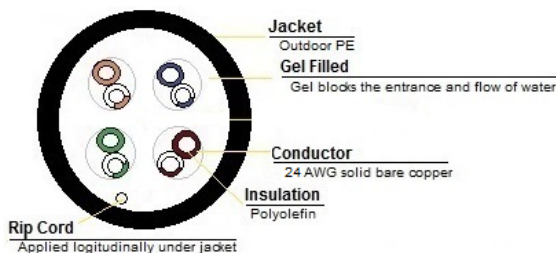
- Structured cabling for Ethernet Networks
- Protects against environmental elements that can cause electrical performance failures
- Prevents moisture migration
- Performance guaranteed to 350 MHz
- Sequential footage markings
- UV Resistant
- Verified by third-party for guaranteed performance

APPLICATIONS

- IEEE 802.3 1000Base-T, 100Base-TX, 10Base-T, PoE, PoE+
- CDDI, Token Ring, ATM
- 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
Screen Material		None
Construction		Direct Burial/Gel Filled
Jacket	Material	LLDPE
	Average Thickness (mm)	0.55
	Minimum Point Thickness (mm)	0.50
	Outside Diameter (±0.2mm)	5.15
Rip Cord:		250D Nylon
Drain Wire:		None
Packing	Length	1000ft/Wood Reel
	Weight	22 lbs
Voltage Rating (Max)		300V



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: 22 lbs.

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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	

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CAT5E 24AWG/4PAIR 350MHz U/UTP DIRECT BURIAL GELL FILLED

PART NO. 5EOUTG244RB

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

JACKETS ABBREVIATION

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

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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CAT5E 24AWG/4PAIR 350MHz F/UTP SHIELDED DIRECT BURIAL GEL FILLED

PART NO. 5EOUTGSHDRB

DESCRIPTION

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

FEATURES AND BENEFITS

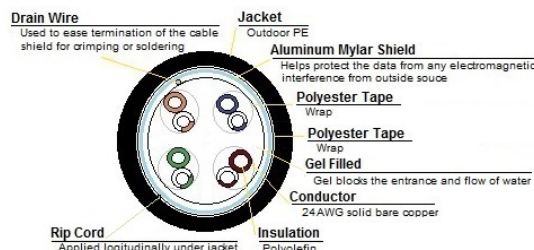
- Structured cabling for Ethernet Networks
- Protects against environmental elements that can cause electrical performance failures
- Prevents moisture migration
- Performance guaranteed to 350 MHz
- Sequential footage markings
- UV Resistant
- Verified by third-party for guaranteed performance

APPLICATIONS

- IEEE 802.3 1000Base-T, 100Base-TX, 10Base-T, PoE, PoE+
- CDDI, Token Ring, ATM
- Aerial, duct and buried installations
- Broadband and Baseband Analog Video

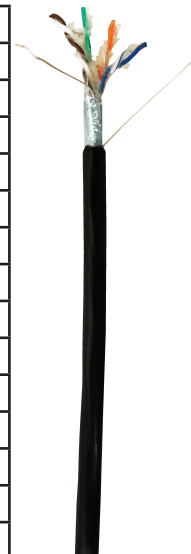
STANDARD COMPLIANCES

- 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)	0.515
Insulation	Material	HDPE
	Diameter (± 0.05mm)	0.96
Screen Material		Al-Foil
Construction		Direct Burial/Gel Filled/Shielded
Jacket	Material	LLDPE
	Average Thickness (mm)	0.55
	Minimum Point Thickness (mm)	0.50
	Outside Diameter (±0.2mm)	5.7
Rip Cord:		250D Nylon
Drain Wire:		0.4 TC
Packing	Length	1000ft/Wood Reel
	Weight	30 lbs
Voltage Rating (Max)		300V



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: 30 lbs.

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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	

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CAT5E 24AWG/4PAIR 350MHz F/UTP SHIELDED DIRECT BURIAL GELL FILLED

PART NO. 5EOUTGSHDRB

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

JACKETS ABBREVIATION

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

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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CAT5E 24AWG/4PAIR 350MHz F/UTP SHIELDED DIRECT BURIAL DUAL JACKET

PART NO. 5EOUTSHDDJRB

DESCRIPTION

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

FEATURES AND BENEFITS

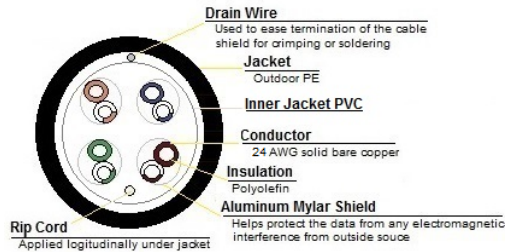
- Structured cabling for Ethernet Networks
- Protects against environmental elements that can cause electrical performance failures
- Prevents moisture migration
- Performance guaranteed to 350 MHz
- Sequential footage markings
- Dual Jacket: UV Rated LLDPE Outer Jacket
- Verified by third-party for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

APPLICATIONS

- IEEE 802.3 1000Base-T, 100Base-TX, 10Base-T, PoE, PoE+
- CDDI, Token Ring, ATM
- 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)	0.515
Insulation	Material	HDPE
	Diameter (± 0.05mm)	0.96
Screen Material		Al-Foil
Construction		Direct Burial/Dual Jacket/Shielded
Jacket	Material	LLDPE/UV Rated
	Average Thickness (mm)	0.55
	Minimum Point Thickness (mm)	0.50
	Outside Diameter (±0.2mm)	5.7
Rip Cord:		250D Nylon
Drain Wire:		0.4 TC
Packing	Length	1000ft/Wood Reel
	Weight	26 lbs
Voltage Rating (Max)		300V



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: 26 lbs.

Toll Free: (866) 945-5051
Local: (770) 945-5051
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	

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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 F/UTP SHIELDED DIRECT BURIAL DUAL JACKET

PART NO. 5EOUTSHDDJRB

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	570.00	63.8	60.8
4	4.1	23.0	52.2	56.3	53.3	n/s	552.00	51.8	48.8
8	5.8	24.5	46.0	51.8	48.8	n/s	546.73	45.7	42.7
10	6.5	25.0	43.8	50.3	47.3	n/s	545.38	43.8	40.8
16	8.2	25.0	39.0	47.2	44.2	n/s	543.00	39.7	36.7
20	9.3	25.0	36.5	45.8	42.8	n/s	542.05	37.8	34.8
25	10.4	24.3	33.9	44.3	41.3	n/s	541.20	35.8	32.8
31.25	11.7	23.6	31.2	42.9	39.9	n/s	540.44	33.9	30.9
62.5	17.0	21.5	21.4	38.4	35.4	n/s	538.55	27.9	24.9
100	22.0	20.1	13.3	35.3	32.3	n/s	537.60	23.8	20.8
200	32.4	17.4	-	30.8	27.8	n/s	536.50	17.8	14.8
300	41.0	16.5	-	29.3	26.3	n/s	536.10	14.3	11.3
350	44.9	16.0	-	27.1	24.1	n/s	535.90	12.9	9.9

Electrical performance with frequency over 250MHz is only for reference

JACKETS ABBREVIATION

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

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



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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 WATERBLOCK TAPE

PART NO. 5EOUTW244RB

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
- 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
Screen Material		N/A
Construction		Direct Burial/Water Block Tape
Jacket	Material	LLDPE
	Average Thickness (mm)	0.55
	Minimum Point Thickness (mm)	0.50
	Outside Diameter (±0.2mm)	5.45
Rip Cord:		250D Nylon
Drain Wire:		None
Packing	Length	1000ft/Wood Reel
	Weight	22 lbs
Voltage Rating (Max)		300V



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: 22 lbs.

Toll Free: (866) 945-5051
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Fax: (770) 945-9582
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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	

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CAT5E 24AWG/4PAIR 350MHz U/UTP DIRECT BURIAL WATERBLOCK TAPE

PART NO. 5EOUTW244RB

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

JACKETS ABBREVIATION

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

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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It is the sole responsibility of the user to have the most current specification. Specifications are subject to change without notice*

DESCRIPTION

- 24 AWG 4Pair F/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
- 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
Screen Material		Al-Foil
Construction		Direct Burial/Shielded/Waterblock Tape
Jacket	Material	LLDPE / UV Rated
	Average Thickness (mm)	0.55
	Minimum Point Thickness (mm)	0.50
	Outside Diameter (±0.2mm)	5.9
Rip Cord:		250D Nylon
Drain Wire:		0.4 TC
Packing	Length	1000ft/Wood Reel
	Weight	26 lbs
Voltage Rating (Max)		300V

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: 26 lbs.

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Fax: (770) 945-9582
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AVAILABLE CATEGORY 5E (PART NUMBERS)

PVC	Plenum	Shielded	Shielded Plenum	Direct Burial	Shielded Direct Burial
5ECMR150CO	5ECMP244Bx	5ESHDCMRBx	5ESHDCMPBx	5EOUT244RB	5EOUTGSHDRB
5ECMR244Bx	5ECMP150CO			5EOUTG244RB	5EOUTWSHDB
5ECMR2425RG	5ECMP2425RO			5EOUTW244RB	5EOUTSHDDJRB
5ECMSTRxx				5EOUTA244RB	

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CAT5E 24AWG/4PAIR 350MHz F/UTP SHIELDED DIRECT BURIAL WATERBLOCK TAPE

PART NO. 5EOUTWSHDB

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

JACKETS ABBREVIATION

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

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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It is the sole responsibility of the user to have the most current specification. Specifications are subject to change without notice*

CAT5E 24AWG/4PAIR CMP 350MHz F/UTP SHIELDED

PART NO. 5ESHDCMPBX

DESCRIPTION

- 24 AWG 4Pair F/UTP Category 5E cable tested to 350 MHz. Aluminum Mylar Foil Shield. Available in Pull Box

FEATURES AND BENEFITS

- Structured cabling for Ethernet Networks
- Foil shield reduces electromagnetic interference (EMI) for optimal performance
- Performance guaranteed to 350 MHz
- Sequential footage markings
- Verified by third-party for guaranteed performance

APPLICATIONS

- IEEE 802.3 1000Base-T, 100Base-TX, 10Base-T, PoE, PoE+
- CDDI, Token Ring, ATM
- 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

Drain Wire

Used to ease termination of the cable shield for crimping or soldering



PHYSICAL PROPERTIES

Conductor	Material	Copper
	Nominal Outside Diameter (mm)	0.50
Insulation	Material	FEP
	Diameter (± 0.05mm)	0.90
Screen Material		Al-Foil
Construction		Shielded/Plenum
Jacket	Material	FR-PVC
	Average Thickness (mm)	0.55
	Minimum Point Thickness (mm)	0.50
	Outside Diameter (±0.2mm)	5.9
Rip Cord:		250D Nylon
Drain Wire:		0.4 TC
Packing	Length	1000ft/Pull Box
	Weight	25 lbs
Voltage Rating (Max)		300V
Flame Test Method		CMP



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' Pull Box
Weight: 25 lbs.

Toll Free: (866) 945-5051
Local: (770) 945-5051
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%.
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CAT5E 24AWG/4PAIR CMP 350MHz F/UTP SHIELDED

PART NO. 5ESHDCMPBX

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	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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CAT5E 24AWG/4PAIR CMR 350MHz F/UTP SHIELDED

PART NO. 5ESHDCMRBX

DESCRIPTION

- 24 AWG 4Pair F/UTP Category 5E cable tested to 350 MHz. Aluminum Mylar Foil Shield. Available in Pull Box

FEATURES AND BENEFITS

- Structured cabling for Ethernet Networks
- Foil shield reduces electromagnetic interference (EMI) for optimal performance
- Performance guaranteed to 350 MHz
- Sequential footage markings
- Verified by third-party for guaranteed performance

APPLICATIONS

- IEEE 802.3 1000Base-T, 100Base-TX, 10Base-T, PoE, PoE+
- CDDI, Token Ring, ATM
- 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

Drain Wire

Used to ease termination of the cable shield for crimping or soldering

Jacket

FR-PVC

Aluminum Mylar Shield

Helps protect the data from any electromagnetic interference from outside source

Polyester Tape

Wrap

Rip Cord

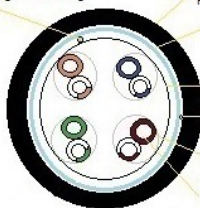
Applied longitudinally under jacket

Conductor

24 AWG solid bare copper

Insulation

Polyolefin



PHYSICAL PROPERTIES

Conductor	Material	Copper
	Nominal Outside Diameter (mm)	0.515
Insulation	Material	HDPE
	Diameter (± 0.05mm)	0.96
Screen Material		Al-Foil
Construction		CMR/Non-Plenum
Jacket	Material	FR-PVC
	Average Thickness (mm)	0.55
	Minimum Point Thickness (mm)	0.50
	Outside Diameter (±0.2mm)	5.7
Rip Cord:		250D Nylon
Drain Wire:		0.4 TC
Packing	Length	1000ft/Pull Box
	Weight	25 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 (%)		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 (%)	≥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		70



1000' Pull Box
Weight: 25 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	

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CAT5E 24AWG/4PAIR CMR 350MHz F/UTP SHIELDED

PART NO. 5ESHDCMRBX

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	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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