

PART NO. 15ECM164R5X

DESCRIPTION:

1 CAT5E 350 24/4 CM + 16AWG/4C 65 STRAND
SPEAKER CABLE

Construction: Siamese

Model: 15ECM164R5P

Application: Horizontal Wiring in LAN

UL Rating: CM

Reference Standard: Subject 444, EIA/TIA568 & ISO/EIC 11801

MARKETING:

COMMODITY CABLES, INC.-15ECM164R5P-E#
CM 75C CAT5E 350 MHZ 4pr 24AWG UTP + 4
COND. 16AWG TYPE CM-CL3 SPEAKER CABLE

COLOR:

CAT5E Insulation Colors:

Blue, White/Blue, Orange, White/Orange, Green,
White/Green, Brown, White/Brown

POWER SPECIFICATIONS:

Rated Voltage	300v/75 C
Flammability Test	CL3 & FT4
Conductor Stranded Bare Copper (mm)	65/0.16
Insulation Dia(±0.1mm)	2.2
Average Thick- ness(±0.05mm)	0.53
Min. Point Thick- ness(mm)	0.48
Outer Dia(±0.02mm)	5
H (±0.02mm)	7
W(±0.02mm)	13.2
Rip Cord	Yes
Weight	90

POWER INSULATION:

Mechanical Characteristics:

Test material PVC
Before Tensile Strength (mpa) ≥ 10.35
Aging Elongation (%) ≥ 100

Aging Condition (Crhrs) 113±2_x168
After Tensile Strength (Mpa) $\geq 70\%$ of original
Aging Elongation (%) $\geq 65\%$ of original

STANDARD PACKAGING/JACKET COLOR



500' Wooden Reel
PURPLE JACKET
Weight: 90 lbs.

Toll Free: (866) 945-5051

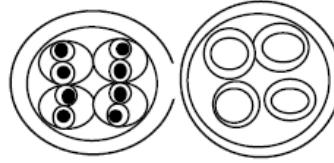
Local: (770) 945-5051

Fax: (770) 945-9582

www.commoditycables.com



CAT 5E



16/4 SPEAKER

PHYSICAL PROPERTIES

Conductor	Material	Solid Bare Copper
	Nominal Outside Diameter (mm)	0.525
Insulation	Material	PE
	Diameter (± 0.02mm)	0.91
Average Thickness (mm)		0.21
Min. Point Thickness (mm)		0.17
Jacket	Inner Jacket	Lan Cable/Power Cable
	Average Thickness (mm)	0.5/0.8
	Minimum Point Thickness (mm)	0.43/0.68
	Outside Diameter (±0.2mm)	0.43/7
Rip Cord:		Yes
Twisting Lay Length (mm)		30 underneath
Cabling Lay Length (±20 mm)		140
Voltage Rating (Max)		DC 300V

ELECTRICAL SPECIFICATION

Test Object	Jacket	
Test Material	PVC	
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 (°C x hrs)		100 x 240
Cold Bend (-20+/-2 Cx4hrs))		No crack
Temperature Range		-20°C ~ +75°C
Velocity of Propagation (%) NVP		70%
Characteristic Impedance:		100 Ohm +15 Ohm @1-100 MHz
Delay Skew: (ns/100m)		≤ 45
Pair-to-Ground	Capacitance Unbalance	≤ 330
(pF/100m):		
Max. Conductor DC Resistance 20C(ohms/km):		93.8
Resistance Unbalanced (%):		$\leq 5\%$

*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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Cat 5E 350 MHz. Performance

FREQUENCY (MHz)	ATT (dB/100m)	RL (dB)	NEXT (dB)	ACR (dB/100m)
0.772	19.4	1.8	67	67.2
1	20	2	65.3	66.3
4	23	4.1	56.3	55.2
8	24.5	5.8	51.8	49
10	25	6.5	50.3	45.8
16	25	8.2	47.3	41
20	25	9.3	45.8	38.5
25	24.3	10.4	44.3	36.9
31.25	23.6	11.7	42.9	32.2
62.5	21.5	17	38.4	22.4
100	20.1	22	35.3	13.3
200	18	32.4	30.8	
300	16.8	41	28.02	
350	16.3	44.9	27.2	
Frequency MHz	Delay max (ns/100m)	E L F E X T dB/100m	P S E L F E X T dB/100m	PSNEXT dB
0.772	575	66	63	64
1	570	63.8	60.8	62.3
4	552	51.7	48.7	53.3
8	546.7	45.7	42.7	48.8
10	545.4	43.8	40.8	47.3
16	543	39.7	36.7	44.3
20	542	37.7	34.7	42.8
25	541.2	35.8	32.8	41.3
31.25	540.4	33.9	30.9	39.9
62.5	538.6	27.8	24.8	35.4
100	537.6	23.8	20.8	32.3

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