

PART NO. 15ECM164R5P

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)	>=70% of original
Aging Elongation (%)	>=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



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)	00.43/0.68
	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)	>=85% of unaged
	Elongation (%)	>=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
(pF/100m):		<=330
Max. Conductor DC Resistance 20C(ohms/km):		93.8
Resistance Unbalanced (%):		<=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*

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

PART NO. 15ECM164R5P

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

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*