

Category 5e + 16/2 Siamese Non-Plenum

ETL listed for guaranteed performance
Made in the USA

Part No.: RMMS5AE350+1002

Applications:

This document establishes the specifications for a cable containing one Category 5e and a two conductor 16AWG cable in a siamese construction with a polyvinyl chloride jacket.

2c16 Construction Details:

Conductor: 16AWG Stranded Bare Copper
Number of Conductors: 2/C
Insulation Material: Polyethylene
Insulation Color: Black, Red

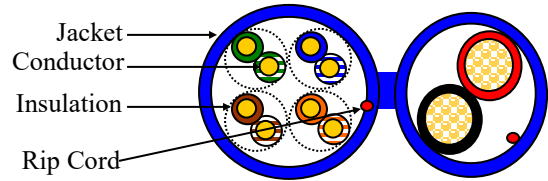
Cat5e Construction Details:

Conductor: 24AWG Solid Bare Copper.
Number of Conductors: 4 Pairs (8/C)
Insulation Material: Polyethylene.

Overall Cable Construction Details:

Construction Type: One Cat5e and one 2c16AWG are pulled in parallel at extrusion in a siamese construction.

Jacket Material: Polyvinyl Chloride
Jacket Color: Per Customer Requirement
Nominal Jacket Thickness: 0.025 in.
Nominal Overall Diameter: Minor over Cat5e: 0.220 in.
Minor over 2c16: 0.218 in.
Major: 0.463 in.



Standards:

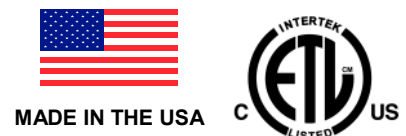
- NEC Article 800
- ANSI/TIA/EIA 568C.2 Category 5e

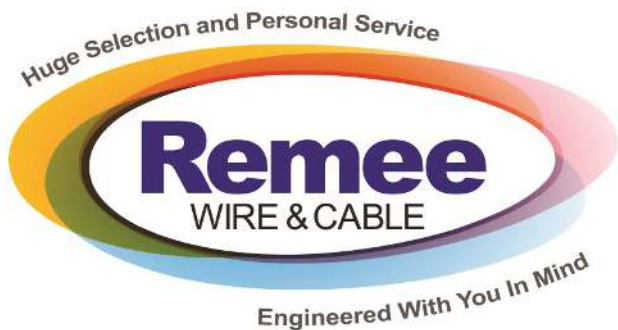
Codes & Listings:

- CMR Rating FT4
- C(ETL)US

Electrical Parameters (Cat5e):

Nominal Mutual Capacitance:	14 pF/ft
Maximum Capacitance Unbalance:	330 pF/ft
Velocity of Propagation:	70%
Max. Conductor D.C.R.:	28.6 ohm/1000 feet
Max. DCR Unbalance:	5%
Max. Delay Skew:	45.0 ns/100m
Characteristic Impedance:	from 0.772 - 100 MHz 100 ± 15%
	from 101 - 250 MHz 100 ± 22%
	from 251 - 350 MHz 100 ± 32%





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Electrical Characteristics (Cat5e):

Frequency	SRL	Return Loss	Attenuation	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	ACR	PS-ACR
	dB	dB	dB(100m)	dB	dB	dB	dB	dB	dB
MHz	Minimum	Minimum	Maximum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum
1	23.0	20.0	2.0	65.3	62.3	63.8	60.8	63.3	60.3
4	23.0	20.3	4.0	56.3	53.3	51.7	48.7	52.3	49.3
8	23.0	20.5	5.7	51.8	48.8	45.7	42.7	46.1	43.1
10	23.0	25.0	6.4	50.3	47.3	43.8	40.8	43.9	40.4
16	23.0	25.0	8.2	47.3	44.3	39.7	36.7	39.1	36.1
20	23.0	25.0	9.2	45.8	42.8	37.7	34.7	36.6	33.6
25	22.0	25.0	10.4	44.3	41.3	35.8	32.8	33.9	30.9
31.25	21.1	23.6	11.7	42.9	39.9	33.9	30.9	31.2	28.2
62.5	18.1	21.5	16.9	38.4	35.4	27.8	24.8	21.5	18.5
100	16.0	20.1	21.9	35.3	32.3	23.8	20.8	13.4	10.4
250	12.0	17.3	36.8	34.3	32.3	15.8	12.8	----	----
300	11.2	16.8	40.9	33.2	31.2	14.2	11.2	----	----
350	10.6	16.3	44.8	32.2	30.2	12.9	9.9	----	----

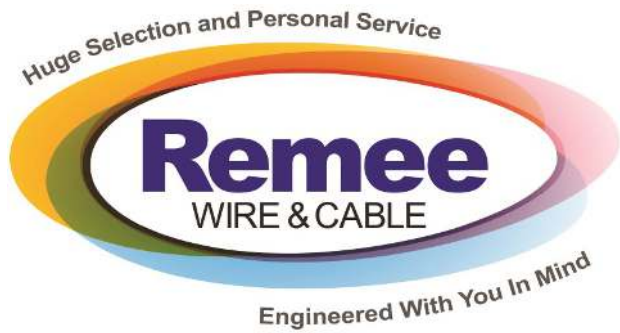
Preparation for Shipment:

The cable shall be packaged to preclude the inducement of damage due to handling and transportation, and shall be in accordance with the best commercial practices available. Shipping containers shall be constructed as to eliminate any possible damage to the cables due to shipment.



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