



P.O. Box 488, 468 Rte. 17A
 Florida, New York 10921
 800 431-3864 * 845 651-4431

Fax 845 651-4160

REMEE PN: RMMS5AE+1564W

08/21/08
 Rev.0

1.0 Cat5e Construction Details:

No. 24 AWG copper conductor insulated with polyethylene. Two colored mated insulated conductors twisted together to form a pair and four pairs assembled to form a core.

Color Code:

Pair	Primary 1	Primary 2
1	White/Blue	Blue
2	White/Orange	Orange
3	White/Green	Green
4	White/Brown	Brown

Standards:

ANSI/TIA/EIA 568B.2 Category 5e

National Electric Code – Article 800

Codes and Listings:

C(ETL)US
 ETL Electrically Verified to ANSI/TIA/EIA
 568B.2.1 Category 5e

Electrical Parameters:

Mutual Capacitance: 14 pF/ft nominal
 Capacitance Unbalance: 330 pF/ft maximum
 Velocity of Propagation: 70% (non-plenum)

Applications:

Supports all category 5 applications including Ethernet 100BASE-TX, 100BASE-VG and 155 ATM. Particularly suited for high bandwidth applications such as 622 ATM, Wideband, and Ethernet 1000BASE-T.

Environmental Characteristics:

Temperature Rating:
 - Installation: 0°C to 50°C
 - Operation: -10°C to 60°C
 Maximum installing tension: 25 lbf

Max. Conductor D.C.R.: 28.6 ohm/1000'
 Max. DCR Unbalance: 3%
 Max. Delay Skew: 18 ns/100m
 Characteristic Impedance:
 from 0.772 – 100 MHz 100 ± 15%

Electrical Characteristics:

Frequency	SRL	Return Loss	Attenuation	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT
	dB	dB	dB(100m)	dB	dB	dB	dB
MHz	Minimum	Minimum	Maximum	Minimum	Minimum	Minimum	Minimum
1	23.0	20.0	2.0	70.3	68.3	63.8	60.8
4	23.0	20.3	4.0	61.3	59.3	51.7	48.7
10	23.0	25.0	6.4	55.3	53.3	43.8	40.8
16	23.0	25.0	8.2	52.3	50.3	39.7	36.7
20	23.0	25.0	9.2	50.8	48.8	37.7	34.7
31.25	21.1	23.6	11.7	47.9	45.9	33.9	30.9
62.5	18.1	21.5	16.9	43.4	41.4	27.8	24.8
100	16.0	20.1	21.9	40.3	38.3	23.8	20.8

2.0 RG6/U Quad Construction Details:

MECHANICAL

Center conductor: 18AWG Solid bare copperweld
Dielectric: Cellular Polyethylene.
Dielectric core O.D: 0.180 in., nominal.
1st shield: Bonded coaxial shielding tape. (100% coverage)
2nd shield: Aluminum braid.
3rd shield: coaxial shielding tape
4th shield: Aluminum braid

ELECTRICAL

Capacitance: 16.2 pF/ft, nominal.
Characteristic impedance: 75 ohms, nominal.
Velocity of propagation: 84%, nominal.
Nominal attenuation dB per 100 feet:

1.46 dB @ 50 MHz	7.50 dB @ 1200 MHz
2.05 dB @ 100 MHz	8.50 dB @ 1800 MHz
2.83 dB @ 200 MHz	9.50 dB @ 2200 MHz
6.88 dB @ 1000 MHz	12.0 dB @ 3000 MHz

3.0 OVERALL CONSTRUCTION

Category 5e and a Rg6/U quad are pulled parallel with an overall PVC jacket in a siamese construction
Minor OD (over cat5e): 0.216 in. nominal
Minor OD (over coax): 0.282 in. nominal
Major OD 0.523 in. nominal

4.0 PREPARATION FOR DELIVERY

The cables 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.