REMEE PN: RMMJ5AE3501564W

07/16/09
Rev.1

Construction: Two category 5e/350 and two RG6/U quad shield swept to 3.0 GHz cabled with an overall jacket.

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

Jacket colors: Blue, Yellow

Standards:

ANSI/TIA/EIA 568B.2 Category 5e
National Electric Code – Article 800

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.

Codes and Listings:

UL 1581: CM rating
CSA FT4
C(ETL)US

Environmental Characteristics:

Temperature Rating:
- Installation: 0°C to 50°C
- Operation: -10°C to 60°C

Maximum installing tension: 25 lbf
Minimum bending radius: 1.0 inch
Nominal cable weight: 22 lb/1000 feet
Nominal cable diameter: 0.185 inch

Electrical Parameters:

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

Max. Conductor D.C.R.: 28.6 ohm/1000 feet
Max. DCR Unbalance: 3%
Max. Delay Skew: 18 ns/100m
Characteristic Impedance:

.772 MHz – 100 MHz 100 ± 15%
100 MHz – 200 MHz 100 ± 22%
200 MHz – 350 MHz 100 ± 32%

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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
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

***Electricals prior to cabling**

2.0 RG6/U QUAD SHIELD

SCOPE

This document establishes the specifications for a quad shield RG 6/U Type 75 ohm coaxial cable used for video display, point-of-sale terminals, Local Area Network controls, and CATV broadcast applications swept to 3.0 GHz.

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, 60% coverage.
3rd shield: coaxial shielding tape
4th shield: Aluminum braid, 40% coverage
Jacket material: Polyvinyl Chloride.
Overall O.D.: 0.282 in., nominal.
Color: Black, Pink.

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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

OVERALL CONSTRUCTION

Two category 5e/350 and two RG6/u's are cabled and overall jacketed.

Jacket: 0.025 in PVC
Color: Per customer requirement
Diameter: 0.650 in., nominal

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.