

Category 5e + RG-6/U Multi Media Cable

ETL listed for guaranteed performance

Part No.: RMMJ5AE3501564W

Applications:

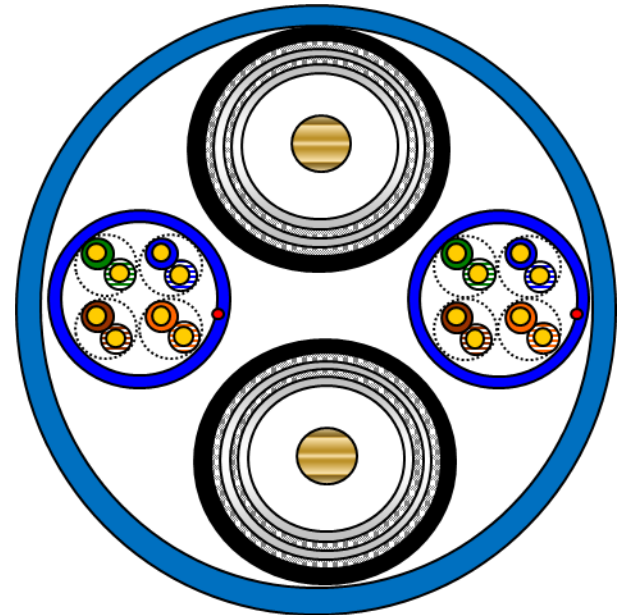
This document establishes the specifications for a multi-media cable containing two quad shield RG-6/U coaxial cables and two Category 5e 350MHz under an overall jacket.

RG-6/U Construction Details:

Conductor: 18AWG Solid Bare Copperweld
Dielectric: Cellular Polyethylene.
Nominal Dielectric Core Diameter: 0.180"
1st Shield: Coaxial Shielding Tape (100% Coverage)
2nd Shield: Aluminum Braid
3rd Shield: Aluminum/Polyester Tape (100% Coverage)
4th Shield: Aluminum Braid
Jacket material: Polyvinyl Chloride
Jacket Color: Black, Pink
Nominal Diameter: 0.282"
Surface Print: N/A

Cat5e Construction Details:

Conductor: 24AWG Solid Bare Copper.
Number of Conductors: 4 Pairs (8/C)
Insulation Material: Polyethylene.
Jacket material: Polyvinyl Chloride
Jacket Color: Blue, Yellow
Nominal Diameter: 0.196"
Surface Print: N/A



Standards:

- National Electric Code - Article 800
- UL 444, Type CMR FT4
- ANSI/TIA/EIA 568C.2 Category 5e

Codes & Listings:

- C(ETL)US CMR
- CSA FT4

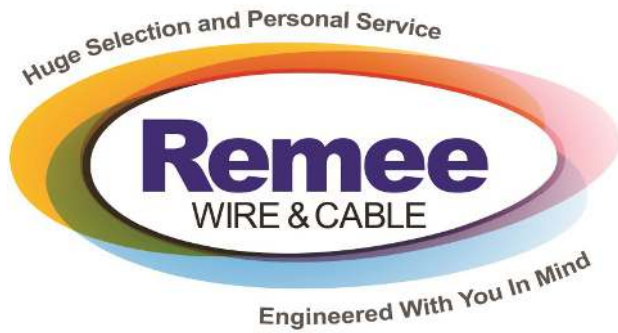
Overall Cable Construction Details:

Construction Type: 2 Cat5e 350MHz cables and 2 RG-6/U cables are cabled together to form the core.

Jacket Material: Polyvinyl Chloride
Jacket Color: Per Customer Requirement
Nominal Jacket Thickness: 0.025"
Nominal Overall Diameter: 0.638"

Surface Print: 3122598 MULTI-MEDIA
2RG6U/18AWG QUAD SHIELD SWEPT TO
3.0 GHZ + 2 CAT5E/24AWG ENHANCED
CMR FT4 C(ETL)US + Sequential Footage
Marking





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*RG-6/U Electrical Characteristics:

Nominal Capacitance: 16.2 pF/ft.
 Nominal Characteristic Impedance: 75Ω
 Nominal Velocity of Propagation: 84%
 Nominal Attenuation (dB per 100 ft.):
 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

*Cat5e Electrical Details:

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

*Cat5e Electrical Characteristics:

Frequency	SRL	Return Loss	Attenuation	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT
MHz	dB	dB(100m)	dB	dB	dB	dB	dB
	Minimum	Maximum	Minimum	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	53.8	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

* All electricals are prior to cabling

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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