



PRODUCT SPECIFICATIONS

**CONVERGENT
CONNECTIVITY
TECHNOLOGY**

SH2004

Description: Multi-Media Cable, Two Category 5e 350MHz cables, 2 RG6/U Quad Shield cables, and Two fiber cables under an overall jacket.

Standards/Listings: ANSI/TIA/EIA 568B.2.1 Category 5e Swept to 350 MHz, ISO/EIC 11801 Category 5e, NEC Article 800, UL 1581: CM, ETL Electrically Verified to ANSI/TIA/EIA 568B.2.1 Category 5e, C(ETL)US CM, RoHS Compliant

CONSTRUCTION

Cat5e Leg

Conductor: 24 AWG Solid Bare Copper
Number of Conductors or Pairs: 4 Pair
Insulation Colors: Blue paired with White/Blue
Orange paired with White/Orange
Brown paired with White/Brown
Green paired with White/Green
Jacket Material: Polyvinyl Chloride
Jacket Color: Blue and Yellow
Nominal Overall Diameter: 0.185 inch (4.699 mm)

Fiber Optic Leg

Fiber Diameter (core/clad): 62.5/125 microns
Fiber Type (Graded Index): Multimode
Numerical Aperture: 0.275
Number of Fibers: 1
Buffer Diameter: 900 microns
Cable Colors: Orange and Gray
Nominal Overall Diameter: 0.114 in (2.900 mm)

RG6/U Quad Leg

Conductor: 18 AWG Bare Copperweld
Stranding: Solid
Dielectric Material: Cellular Polyethylene
Dielectric Core Diameter: 0.180 in. (4.572 mm.) Nominal
1st Shield: Coaxial Shielding Tape (100% Coverage)
2nd Shield: Aluminum Braid
3rd Shield: Coaxial Shielding Tape (100% Coverage)
4th Shield: Aluminum Braid
Jacket Material: Polyvinyl Chloride
Jacket Colors: Black and Pink
Nominal Overall Diameter: 0.282 in. (7.162 mm.)

Overall Cable

Construction: Two category 5e cables, two RG6/U Quad cables and two fiber optic cables are cabled and overall jacketed.
Jacket Material: Polyvinyl Chloride
Jacket Color: Per Customer Requirement
Nominal Overall Cable Diameter: 0.680 in. (17.272 mm)
Surface Print: REMEE PRODUCTS CORP MULTI-MEDIA 2RG6U/18 SWEPT TO 3.0 GHZ +2CAT5E350 24AWG 4PR + 2 FDDI FIBERS CM C(ETL)US FT4 + Sequential Footage Marking

Issue Date: June '10 Revision: 0

THE STRONGEST LINK IN YOUR SUPPLY CHAIN



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Cat5e ELECTRICAL & PHYSICAL PROPERTIES

RG6/U Quad ELECTRICAL & PHYSICAL PROPERTIES

Capacitance: 16.2pF/ft Nominal
Velocity of propagation: 84% Nominal
Characteristic Impedance: 75Ω Nominal
Nominal attenuation per 100ft: 1.46 dB @ 50 MHz
 2.05 dB @ 100 MHz
 2.83 dB @ 200 MHz
 6.88 dB @ 1000 MHz
 7.50 dB @ 1200 MHz
 8.50 dB @ 1450 MHz
 9.50 dB @ 2200 MHz
 12.0 dB @ 3000 MHz

Temperature Rating: Installation: 0°C to 50°C
 Operation: -10°C to 60°C
Velocity of Propagation: 70%
Mutual Capacitance: 14 pF/ft Nominal
Capacitance Unbalance: 330 pF/ft maximum
Maximum Conductor D.C.R.: 28.6Ω/1,000 ft
Maximum D.C.R. Unbalance: 5%
Maximum Delay Skew: 45.0ns/100m
Maximum Propagation Delay Skew: 5.7ns/100m
Characteristic Impedance: From 0.772 MHz - 100 MHz 100 ± 15%
 From 100 MHz - 250 MHz 100 ± 22%
 From 201 MHz - 350 MHz 100 ± 32%
Maximum Installing Tension: 25 lb
Minimum Bending Radius: 1.0 inch

Cat5e ELECTRICAL CHARACTERISTICS

<u>Frequency</u>	<u>SRL</u>	<u>Return Loss</u>	<u>Attenuation</u>	<u>PS-NEXT</u>	<u>NEXT</u>	<u>ELFEXT</u>	<u>PS-ELFEXT</u>
<u>MHz</u>	<u>dB</u>	<u>dB</u>	<u>dB (100m)</u>	<u>dB</u>	<u>dB</u>	<u>dB</u>	<u>dB</u>
	<u>Minimum</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Minimum</u>	<u>Minimum</u>	<u>Minimum</u>	<u>Minimum</u>
1	23.0	20.0	2.0	68.3	70.3	63.8	60.8
4	23.0	20.3	4.0	59.3	61.3	51.7	48.7
10	23.0	25.0	6.4	53.3	55.3	43.8	40.8
16	23.0	25.0	8.2	50.3	52.3	39.7	36.7
20	23.0	25.0	9.2	48.8	50.8	37.7	34.7
31.25	21.5	23.6	11.7	45.9	47.9	33.9	30.9
62.5	18.1	21.5	16.9	41.4	43.4	27.8	24.8
100	16.0	20.1	21.9	38.3	40.3	23.8	20.8
250	12.0	17.3	36.8	32.3	34.3	15.8	12.8
300	11.2	16.8	40.9	31.2	33.2	14.2	11.2
350	10.6	16.3	44.8	30.2	32.2	12.9	9.9

*Electricals are prior to cabling

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Fiber Optic Electrical and Physical Characteristics

Attenuation @ 850/1300 nm:	≤3.5/1.5 dB/km
Bandwidth @ 850/1300 nm:	≥160/300 MHz/km
Storage Temperature Range:	-40°C to +70°C
Operating Temperature Range:	-20°C to +70°C
Maximum Tensile Load for Installation:	345 N (77 lbf)
Maximum Tensile Load, Long-Term:	125 N (28 lbf)
Minimum Bend Radius, Unloaded:	10 x O.D.
Crush Resistance (EIA 455-41):	100 N/cm
Impact Resistance (EIA 455-25):	25 Impacts
Flexing, ±90° (EIA 455-104):	25 Cycles

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