

RG6Q-CAT5E350

PRODUCT SPECIFICATIONS

Description: Multi-Media Cable, One Category 5e 350MHz cables and one RG6/U Quad Shield cable jacketed in a siamese construction.

Standards/Listings: ANSI/TIA/EIA 568C.2 Category 5e Swept to 350 MHz, ISO/EIC 11801 Category 5e, NEC Article 800, UL 1581: CM, ETL Electrically Verified to ANSI/TIA/EIA 568C.2 Category 5e, C(ETL)US CM

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

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

Overall Cable

Construction: One Category 5e cables, one RG6/U Quad cable are pulled in parallel and jacketed in a siamese construction.

Jacket Material: Polyvinyl Chloride

Jacket Color: Per Customer Requirement

Nominal Overall Cable Diameter: Minor (over Cat5e): 0.216 in. (5.486 mm)
Minor (over Coax): 0.282 in. (7.162 mm)
Major: 0.523 in. (13.284 mm)

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PRODUCT SPECIFICATIONS

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