



PRODUCT SPECIFICATIONS

**CONVERGENT
CONNECTIVITY
TECHNOLOGY**

SH3000

Description: Multi-Media Cable, one Category 6 250MHz cables and one RG6/U Quad Shield cable jacketed in a siamese construction.

Standards/Listings: ANSI/TIA/EIA 568C.2 Category 6, ISO/EIC 11801 Category 6, NEC Article 800, UL 1581: CM, ETL Electrically Verified to ANSI/TIA/EIA 568C.2 Category 6, C(ETL)US CM

CONSTRUCTION

Cat6 Leg		RG6/U Quad Leg	
Conductor:	23 AWG Solid Bare Copper	Conductor:	18 AWG Bare Copperweld
Number of Conductors or Pairs:	4 Pair	Stranding:	Solid
Insulation Colors:	Blue paired with White/Blue Orange paired with White/Orange Brown paired with White/Brown Green paired with White/Green	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:	Siamese
Jacket Material:	Polyvinyl Chloride
Jacket Color:	Per Customer Requirement
Nominal Overall Cable Dimensions:	Minor over Cat6: 0.260 in. (6.604 mm) Minor over RG6/U: 0.282 in. (7.162 mm) Major: 0.567 in. (14.401 mm)
Surface Print:	Per Customer Requirement

Issue Date: February '12 Revision: 0

THE STRONGEST LINK IN YOUR SUPPLY CHAIN

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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

Cat6 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: 3%
 Maximum Delay Skew: 18.0ns/100m
 Nominal Characteristic Impedance:
 from 0.772 MHz - 100 MHz 100 ± 15%
 from 100 MHz - 200 MHz 100 ± 22%
 from 201 MHz - 550 MHz 100 ± 32%

Cat6 Electrical Characteristics:

<u>Frequency</u>	<u>Return Loss</u>	<u>Attenuation</u>	<u>NEXT</u>	<u>PS-NEXT</u>	<u>ELFEXT</u>	<u>PS-ELFEXT</u>
<u>MHz</u>	<u>dB</u>	<u>Db (100m)</u>	<u>dB</u>	<u>dB</u>	<u>dB</u>	<u>dB</u>
	<u>Minimum</u>	<u>Maximum</u>	<u>Minimum</u>	<u>Minimum</u>	<u>Minimum</u>	<u>Minimum</u>
1	20.0	2.0	80.3	78.3	73.8	70.8
4	23.0	3.8	71.3	69.3	61.8	58.8
10	25.0	6.0	65.3	63.3	53.8	50.8
16	25.0	7.6	62.2	60.2	47.7	46.7
20	25.0	8.5	60.8	58.8	47.8	44.8
31.25	23.6	10.7	57.9	55.9	43.9	40.9
62.5	21.5	15.4	53.4	51.4	37.9	34.9
100	20.1	19.8	50.3	58.3	33.8	30.8
200	18.0	29.0	45.8	43.8	27.8	24.8
250	17.3	32.8	44.3	42.3	25.8	22.8

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