PRODUCT SPECIFICATIONS

CONVERGENT CONNECTIVITY TECHNOLOGY

SH2000

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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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

Cat5e ELECTRICAL & PHYSICAL PROPERTIES

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 From 100 MHz - 250 MHz From 201 MHz - 350 MHz	100 ± 15% 100 ± 22% 100 ± 32%
Maximum Installing Tension:		25 lb
Minimum Bending Radius:		1.0 inch

Cat5e ELECTRICAL CHARACTERISTICS

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

Issue Date: November '11 Revision: 0

THE STRONGEST LINK IN YOUR SUPPLY CHAIN

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