PRODUCT SPECIFICATIONS

CONVERGENT CONNECTIVITY TECHNOLOGY

SH2003

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

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
Jacket Material:	Polyvinyl Chloride
Jacket Color:	Blue and Yellow
Nominal Overall Diameter:	0.185 inch (4.699 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, Pink
Nominal Overall Diameter:	0.282 in. (7.162 mm.)

Overall Cable

Construction:	Two category 5e cables, two RG6/U Quad cable are cabled and overall jacketed.
Jacket Material:	Polyvinyl Chloride
Jacket Color:	Per Customer Requirement
Nominal Overall Cable Diameter:	0.650 in. (16.510 mm)

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

Issue Date: June '11 Revision: 0

THE STRONGEST LINK IN YOUR SUPPLY CHAIN

PHONE: 866-905-6744
FAX: 845-651-3564

PO BOX 454
FLORIDA, NY 10921

techsupport@cctcable.com

PRODUCT SPECIFICATIONS

CONVERGENT CONNECTIVITY TECHNOLOGY

SH2003

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

*Electricals are prior to cabling

Issue Date: August '10 Revision: 0

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