



PRODUCT SPECIFICATIONS

CONVERGENT
CONNECTIVITY
TECHNOLOGY

CAT5ESLSZH

Description:

Four twisted pair Category 5e Horizontal Cable shielded with an overall Low Smoke Zero Halogen outer jacket. Swept to 350 MHz

Standards/Listings:

ETL Electrically Verified to ANSI/TIA/EIA 568C.2 Category 5e, ISO/IEC 11801 Category 5e, NEC Article 800, UL Subject 444, C(ETL)US, UL 1685 CMG/LS Rating

Applications:

Supports all category 5 applications including Ethernet 100BASE-TX, 100BASE-VG and 155 ATM. Particularly suited as 622 ATM. Wideband, and Ethernet 1000BASE-T. For use in Shipboard applications.

CONSTRUCTION

Conductor:	24 AWG Solid Bare Copper
Number of Conductors or Pairs:	4 Pair
Core Wrap:	Mylar Tape (100% Coverage)
Shield:	Aluminum/Polyester Tape (100% Coverage)
Drain:	Solid Tin Copper
Outer Jacket Material:	Low Smoke Zero Halogen
Nominal Overall Cable Diameter:	0.260 inch (6.604 mm)
Approximate Cable Weight:	33 lb/1,000 ft.

ELECTRICAL & PHYSICAL PROPERTIES

Temperature Rating:	Installation: -20°C to +60°C Operation: -20°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 101 MHz — 250 MHz 100 ± 22% From 251 MHz—350 MHz 100 ± 32%
Maximum Installing Tension:	25 lb
Minimum Bending Radius:	2.0 inch
Insulation Colors:	Blue paired with White/Blue Orange paired with White/Orange Brown paired with White/Brown Green paired with White/Green

Issue Date: August '13 Revision: 0

THE STRONGEST LINK IN YOUR SUPPLY CHAIN



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Page 1 of 2

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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

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Page 2 of 2

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