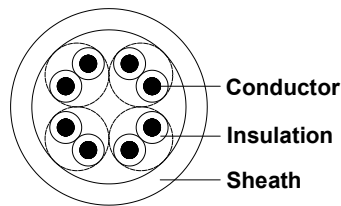
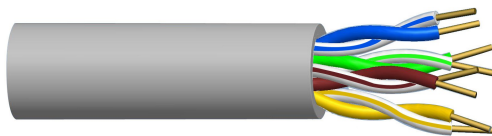




C11100101MM
Category 5 Enhance LAN Cable

(CAT.5E)



DESCRIPTION

Unshielded Twisted Pair, 24AWG Solid PACW, 4 Pairs, Polyethylene Insulation, PVC Sheath.

APPLICATION

For high speed data transmission.

- IEEE802.3 10BASE-T (ETHERNET)
- IEEE802.3 100BASE-T (Fast ETHERNET)
- IEEE802.3 1000BASE-T (Gigabit ETHERNET)
- IEEE802.5 4/16 Mbps Token Ring
- 52/155Mbps ATM
- 100VG-AnyLAN
- ANSI X3T9.5 100Mbps TP-PMD

APPLICABLE STANDARD

- EU RoHS Complies 2011/65/EU
- UL 444
- ANSI/TIA/EIA 568C.2 and ISO11801

CONSTRUCTION

Conductor

Material :	Plain Annealed Copper Wire
Size :	24AWG
Construction :	Solid

All values subject to factory tolerances.

Samson tries to ensure accuracy at the time of issue and reserves the right to change the data of the products without notice.

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C11100101MM

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Category 5 Enhance LAN Cable

Insulation

Material :	Polyethylene
Nominal O.D :	0.9mm
Color :	Blue/White-Blue Stripe, Green/White-Green Stripe, Orange/White-Orange Stripe, Brown/White-Brown Stripe

Sheath

Material :	PVC
Nominal O.D :	4.8mm
Color :	Light Grey

PHYSICAL PROPERTIES

Operating Temperature (Flexing)	-15°C to 75°C
Operating Temperature (Fixed)	-30°C to 75°C
Min. Bend Radius (Fixed)	48mm

ELECTRICAL PROPERTIES

Rating Voltage	300V
Max. Conductor DC Resistance @20°C	93.8Ω/km
Max. DCR Unbalance@20°C	5%
Max. Mutual Capacitance	56pF/m
Voltage Test : Conductor to Conductor	1500V a.c/1min

All values subject to factory tolerances.

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dB/100m 20°C

Freq. MHz	Characteristic Impedance +/-15Ω	Min. Structural Return Loss (SRL)	Min. Return Loss (RL)	Max. Insertion Loss (IL)	Max. Near End Cross-talk (NEXT)	Max. Power Sum Near-End Cross-talk (PSNEXT)	Max. Far End Cross-talk (ELFEXT)	Max. Power Sum Far End Cross-talk (PSELFEXT)	Max. Propagation Delay (PD)	Max. Propagation Delay Skew (PDS)
0.772	100	***	***	1.8	67.0	64.0	66.0	63.0	570	45
1.0	100	23	20.0	2.0	65.3	62.3	63.8	60.8	***	***
4.0	100	23	23.0	4.1	56.3	53.3	51.8	48.8	***	***
8.0	100	23	24.5	5.8	51.8	48.8	45.7	42.7	***	***
10.0	100	23	25.0	6.5	50.3	47.3	43.8	40.8	545	45
16.0	100	23	25.0	8.2	47.2	44.2	39.7	36.7	***	***
20.0	100	23	25.0	9.3	45.7	42.8	37.8	34.7	***	***
25.0	100	22	24.3	10.4	44.3	41.3	35.8	32.8	***	***
31.25	100	21	23.6	11.7	42.9	39.9	33.9	30.9	***	***
62.5	100	18	21.5	17.0	38.4	35.4	27.9	24.9	***	***
100.0	100	16	20.1	22.0	35.3	32.3	23.8	20.8	538	45

All values subject to factory tolerances.

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