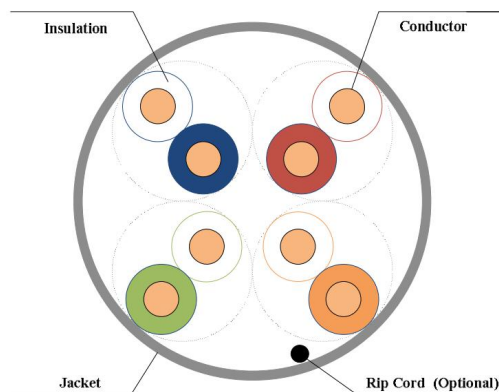


PRODUCT SPECIFICATION

LAN cable

CAT5E UTP 4x2x24AWG

FIGURE



CONSTRUCTION

Inner conductor	Solid Bare Copper	$\Phi 0.50 \pm 0.01\text{mm}$
Insulation	Solid HDPE	$\Phi 0.88 \pm 0.05\text{mm}$
	Color	1 Blue & White/ Blue
		2 Orange & White/ Orange
		3 Green & White/ Green
Sheath		4 Brown & White/ Brown
	PVC, PE, FRPVC, LSZH	$\Phi 5.0 \pm 0.20\text{mm}$
	Rip cord	Nylon (Optional)

MECHANICAL PROPERTIES

Bending radius (single)	mm	$8 \times \text{cable OD}$
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ELECTRICAL PROPERTIES

Impedance	Ω	$100 \pm 15 @ \leq 100\text{MHz}$
DC Resistance unbalance	For conductors, %	≤ 2
	For pairs, %	≤ 4
Conductor DC Resistance	$\Omega/100\text{m}$	$\leq 9.5 @ 20^\circ\text{C}$
Mutual Capacitance at 1MHz	nF/100m	≤ 5.6
Insulation Resistance	M Ω .km	≥ 5000
Delay Skew	ns/100	≤ 45

PRODUCT SPECIFICATION

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TRANSMISSION PROPERTIES

Frequency	Attenuation	Return loss	NEXT	PS NEXT	EL FEXT	PS EL FEXT	Delay
MHz	dB/100m	dB	dB	dB	dB	dB	ns/100m
4	4.1	18.8	53.3	-	49.0	-	552
8	5.8	19.7	48.8	-	42.9	-	547
10	6.5	20.0	47.3	-	41.0	-	545
16	8.2	20.0	44.2	-	36.9	-	543
20	9.3	20.0	42.8	-	35.0	-	542
25	10.4	19.3	41.3	-	33.0	-	541
31.25	11.7	18.6	39.9	-	31.1	-	540
62.5	17.0	16.5	35.4	-	25.1	-	539
100	22.0	15.1	32.3	-	21.0	-	538

STANDARDS

ANSI/TIA/EIA 568-B.2-1

Compliant