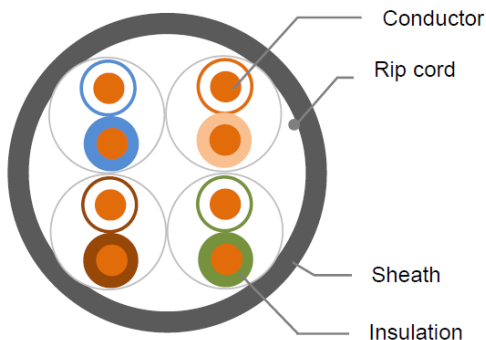


LAN cable

# CAT. 5e U/UTP 4x2x24AWG/1 LSZH SHEATH

FIGURE



## CONSTRUCTION

Inner conductor	Solid Bare Copper	$\Phi 0.50 \pm 0.01\text{mm}$
Insulation	Solid HDPE	$\Phi 0.90 \pm 0.05\text{mm}$
	Color	1 Blue & White/ Blue 2 Orange & White/ Orange 3 Green & White/ Green 4 Brown & White/ Brown
Sheath	LSZH	$\Phi 5.0 \pm 0.20\text{mm}$
	Rip cord	Nylon (Optional)

## MECHANICAL PROPERTIES

Bending radius (single)	mm	$8 \times \text{cable OD}$
Operation temperature	$^{\circ}\text{C}$	$-30 \sim +80$

## ELECTRICAL PROPERTIES

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

LAN cable

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### TRANSMISSION PROPERTIES

Frequency MHz	Attenuation dB/100m	Return loss dB	NEXT dB	PS NEXT dB	EL FEXT dB	PS EL FEXT dB	Delay ns/100m
4	4.1	23.0	56.3	53.3	52.0	49.0	552
8	5.8	24.5	51.8	48.8	45.9	42.9	547
10	6.5	25.0	50.3	47.3	44.0	41.0	545
16	8.2	25.0	47.2	44.2	39.9	36.9	543
20	9.3	25.0	45.8	42.8	38.0	35.0	542
25	10.4	24.3	44.3	41.3	36.0	33.0	541
31.25	11.7	23.6	42.9	39.9	34.1	31.1	540
62.5	17.0	21.5	38.4	35.4	28.1	25.1	539
100	22.0	20.1	35.3	32.3	24.0	21.0	538

### STANDARDS

2011/65/EU

Compliant

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

Compliant