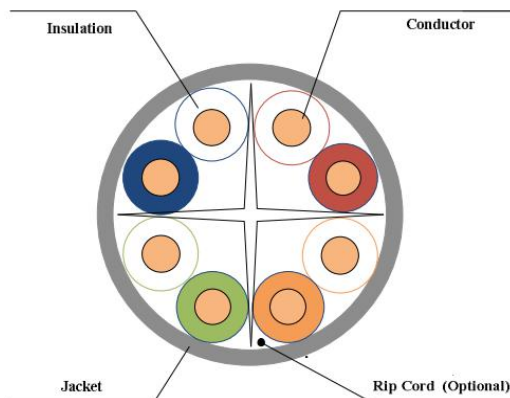


# PRODUCT SPECIFICATION

LAN cable

## CAT. 6 UTP 4x2x23AWG

FIGURE



### CONSTRUCTION

Inner conductor	Solid Bare Copper	$\Phi 0.57 \pm 0.02\text{mm}$
Insulation	Solid HDPE	$\Phi 1.01 \pm 0.05\text{mm}$
	Color	1 Blue & White/ Blue
		2 Orange & White/ Orange
		3 Green & White/ Green
		4 Brown & White/ Brown
Filler	PE	“+” shape
Sheath	PVC, PE, FRPVC, LSZH	$\Phi 6.00 \pm 0.30\text{mm}$
	Rip cord	Nylon (Optional)

### MECHANICAL PROPERTIES

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

Impedance	$\Omega$	$100 \pm 15 @ \leq 100\text{MHz}$
		$100 \pm 25 @ 100 \sim 250\text{MHz}$
DC Resistance unbalance	For conductors, %	$\leq 2$
	For pairs, %	$\leq 4$
Conductor DC Resistance	$\Omega/100\text{m}$	$\leq 9.5 @ 20^\circ\text{C}$
Insulation Resistance	$\text{M}\Omega.\text{km}$	$\geq 5000$
Delay Skew	$\text{ns}/100$	$\leq 45$

# PRODUCT SPECIFICATION

LAN cable

## CAT. 6 UTP 4x2x23AWG

### 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	3.8	23.0	66.3	63.3	56.0	53.0	552
8	5.3	24.5	61.8	58.8	49.9	46.9	547
10	6.0	25.0	60.3	57.3	48.0	45.0	545
16	7.6	25.0	57.2	54.2	43.9	40.9	543
20	8.5	25.0	55.8	52.8	42.0	39.0	542
25	9.5	24.3	54.3	51.3	40.0	37.0	541
31.25	10.7	23.6	52.9	49.9	38.1	35.1	540
62.5	15.4	21.5	48.4	45.4	32.1	29.1	539
100	19.8	20.1	45.3	42.3	28.0	25.0	538
200	29.0	18.0	40.8	37.8	22.0	19.0	537
250	32.8	17.3	39.3	36.3	20.0	17.0	536

### STANDARDS

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

Compliant