

Category6 UTP Stranded Cable

Specification

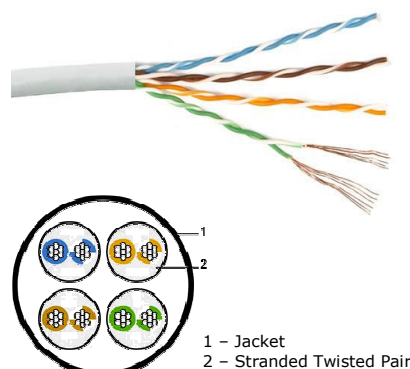
Meets ANSI/EIA/TIA 568-B.2-1 requirements
 Meets general purpose cable UL-1581 CM rating
 Meets fire retardant low smoke IEC60332-1 rating

Description

Unshielded Copper, 4 pairs, category 6, stranded
 Cable is used for indoor installation

Material

Conductive material: wire made of soft annealed electrolytic copper
 Conductor insulation: HDPE, film-porous-film structure
 The cable jacket: PVC / LSZH



Technical Characteristic

Conductor diameter: $7 \times 0.2 \text{ mm} \pm 0.01 \text{ mm}$ ($7" \times 0.008" \pm 0.0004"$) (24 AWG)
 Insulated conductor diameter: $1.03 \pm 0.2 \text{ mm}$ ($0.04" \pm 0.008"$)
 Outer cable diameter: $5.3 \pm 0.2 \text{ mm}$ ($0.2" \pm 0.008"$)
 Jacket thickness: 0.4 mm ($0.0157"$)
 Minimum bend radius: $8 \times \text{Ø}$ while installation, $6 \times \text{Ø}$ while vertical cabling, $4 \times \text{Ø}$ while horizontal cabling
 Operating temperature: $-5^{\circ}\text{C} - +60^{\circ}\text{C}$ ($+23^{\circ}\text{F} - +140^{\circ}\text{F}$)
 Weight per 1000 ft (304.8 m): 24 AWG 11.5 kg (25.35 lbs)
 Standard package: 304.8 m (1000 ft)

Electrical Characteristic

Frequency, MHz	RL	Attenuation, dB	NEXT, dB	PSNEXT, dB	ELFEXT, dB	PSELFEXT, dB
1.0	20.0	2.4	74.3	72.3	67.8	64.8
4.0	23.0	4.5	65.3	63.3	55.8	52.8
8.0	24.5	6.4	60.8	58.8	49.7	46.7
10.0	25.0	7.1	59.3	57.3	47.8	44.8
16.0	25.0	9.1	56.2	54.2	43.7	40.7
20.0	25.0	10.2	54.8	52.8	41.8	38.8
25.0	24.2	11.4	53.3	51.3	39.8	36.8
31.25	23.3	12.8	51.9	49.9	37.9	34.9
62.5	20.7	18.5	47.4	45.4	31.9	28.9
100.0	19.0	23.8	44.3	42.3	27.8	24.8
200.0	16.4	34.8	39.8	37.8	21.8	18.8
250.0	15.6	39.4	38.3	36.3	19.8	16.8

Conductor resistance at 20°C (68°F)	9.38Ω/100m (2.9Ω/100ft)
DC Resistance Unbalance	5%
Pair-to-Ground Capacitance Unbalance	330pF/100m (101pF/100ft)
Impedance 1-250 MHz	85Ω-115Ω
Mutual Capacitance	5.6nF/m (1.7nF/ft)
Spark Test	2.5kV

Ordering Information

HI06UR-**M-C** i-Net Networks Horizontal Cable Category6 UTP Stranded 24AWG 4Pair Milky Gray CM

M **M**—Milky Gray, **B**—Blue, **L**—Black, **G**—Green, **R**—Red, **Y**—Yellow

C **C**—CM, **L**—LSZH