

Category5e UTP Stranded Cable

Specification

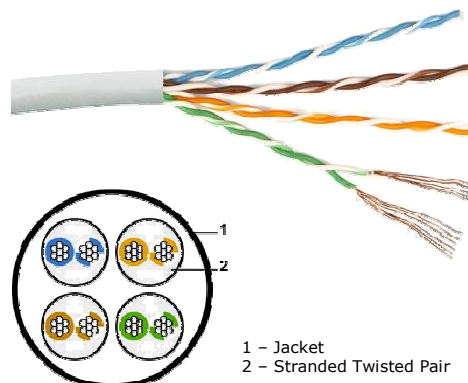
Meets ANSI/EIA/TIA 568-B.2 requirements
 Meets general purpose cable UL-1581 CM rating
 Meets fire retardant low smoke IEC60332-1 rating
 Meets plenum UL-910 rating

Description

Unshielded Copper cable, 4 pairs, category 5e, solid
 Cable is used for indoor installation

Material

Conductive material: Soft annealed electrolytic copper
 Conductor insulation: HDPE
 The cable jacket: PVC / LSZH / Plenum



Technical Characteristic

Conductor diameter: $7 \times 0.18 \text{ mm} \pm 0.01 \text{ mm}$ ($7" \times 0.007" \pm 0.0004"$) (24 AWG)
 Insulated conductor diameter: $0.90 \pm 0.2 \text{ mm}$ ($0.035" \pm 0.008"$)
 Outer cable diameter: $5.1 \pm 0.02 \text{ mm}$ ($0.2" \pm 0.008"$)
 Jacket thickness: 0.4 mm ($0.0157"$)
 Minimum bend radius: $8 \times \varnothing$ while installation, $6 \times \varnothing$ while vertical cabling, $4 \times \varnothing$ while horizontal cabling
 Installation temperature: $-5^{\circ}\text{C} - +50^{\circ}\text{C}$ ($+23^{\circ}\text{F} - +122^{\circ}\text{F}$)
 Operating temperature: $-20^{\circ}\text{C} - +75^{\circ}\text{C}$ ($-4^{\circ}\text{F} - +167^{\circ}\text{F}$)
 Weight per 1000 ft (304.8 m): 10.5 kg (23.15 lbs)
 Standard package: 304.8 m (1000 ft)

Electrical Characteristic

Frequency, MHz	RL	Attenuation, dB	NEXT, dB	PSNEXT, dB	ELFEXT, dB	PSELFEXT, dB
0.772	-	1.8	67.0	64.0	-	-
1.0	20.0	2.0	65.3	62.3	63.8	60.8
4.0	23.0	4.0	56.3	53.3	51.7	48.7
8.0	24.5	5.8	51.8	48.8	45.7	42.7
10.0	25.0	6.5	50.3	47.3	43.8	40.8
16.0	25.0	8.2	47.3	44.3	39.7	36.7
20.0	25.0	9.3	45.8	42.8	37.7	34.7
25.0	24.3	10.4	44.3	41.3	35.8	32.8
31.25	23.6	11.7	42.9	39.9	33.9	30.9
62.5	21.5	17.0	38.4	35.4	27.8	24.8
100.0	20.1	22.0	35.3	32.3	23.8	20.8

Conductor resistance at 20°C (68°F)	9.38 Ω /100m (2.9 Ω /100ft)
DC Resistance Unbalance	5%
Pair-to-Ground Capacitance Unbalance	330pF/100m (101pF/100 ft)
Impedance 0.772-100 MHz	85 Ω -115 Ω
Mutual Capacitance	5.6nF/m (1.7nF/ft)
Spark Test	2.5kV

Ordering Information

HI5EUR- M-C	i-Net Networks Horizontal Indoor Cable Category5e UTP Stranded 24AWG 4Pair Milky Gray CM
M	M —Milky Grey, B —Blue, L —Black, G —Green, R —Red, Y —Yellow
C	C —CM, L —LSZH