

Category6 UTP Solid Indoor Cable

Specification

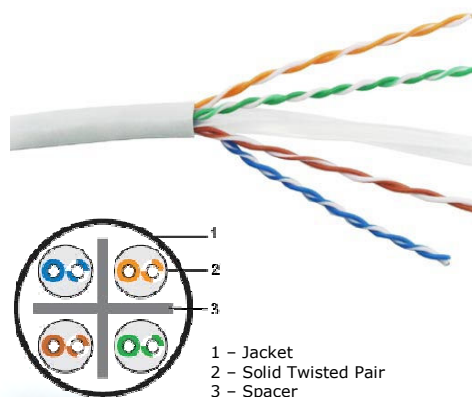
Meets ANSI/EIA/TIA 568-B.2-1 requirements
 Meets general purpose cable UL-1581 CM rating
 Meets fire retardant low smoke IEC60332-1 rating
 Meets plenum UL-910 rating
 Tested up to 350MHz

Description

Unshielded copper cable, 4 pairs, category 6, solid
 Cable is used for indoor installation

Material

Conductive material: Soft annealed electrolytic copper
 Conductor insulation: HDPE, film-porous-film structure
 The cable jacket: PVC / LSZH / Plenum



Technical Characteristic

Conductor diameter: $0.56-0.51 \pm 0.01$ mm (23-24 AWG)
 Insulated conductor diameter: 0.99 ± 0.2 mm ($0.038'' \pm 0.008''$)
 Outer cable diameter: 6.2 ± 0.2 mm ($0.24'' \pm 0.008''$)
 Jacket thickness: 0.4 mm ($0.0157''$)
 Pulling strength: 130 N
 Minimum bend radius: 8xØ while installation, 6xØ while vertical cabling, 4xØ while horizontal cabling
 Operating temperature: -20°C to +75°C (-4°F to +167°F)
 Weight per 1000 ft (304.8 m): 24 AWG 11.5 kg (25.35 lbs) / 23 AWG 13.0 Kg (28.66 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	2.0	74.3	72.3	67.8	64.8
4.0	20.3	3.8	65.3	63.3	55.8	52.8
8.0	24.5	5.3	60.8	58.8	49.7	46.7
10.0	25.0	6.0	59.3	57.3	47.8	44.8
16.0	25.0	7.6	56.3	54.3	43.7	40.7
20.0	25.0	8.5	54.8	52.8	41.8	38.8
25.0	24.3	9.5	53.3	51.3	39.8	36.8
31.25	23.6	10.7	51.9	49.9	37.9	34.9
62.5	21.5	15.4	47.4	45.4	31.9	28.9
100.0	20.1	19.8	44.3	42.3	27.8	24.8
200.0	18.0	29.0	39.8	37.8	21.8	18.8
250.0	17.3	32.8	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

HI06US3- M-C	i-Net Networks Horizontal Indoor Cable Category6 UTP Solid 23AWG 4Pair Milky Gray CM
HI06US4- M-C	i-Net Networks Horizontal Indoor Cable Category6 UTP Solid 24AWG 4Pair Milky Gray CM
M	M —Milky Gray, B —Blue, L —Black, G —Green, R —Red, Y —Yellow
C	C —CM, L —LSZH, P —Plenum