

Category6A UTP Solid Indoor Cable

Specification

Meets ANSI/EIA/TIA 568-B.2-10 requirements
 Meets general purpose cable UL-1581 CM rating
 Meets fire retardant low smoke IEC60332-1 rating
 Meets ISO/IEC 2nd edition 11801 Amendment 1.2
 Meets ISO/IEC 61156-2 2nd edition & CENELEC EN 50288-10-1
 Tested up to 650MHz

Description

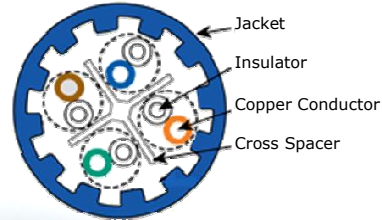
Copper cable, 4 pairs, Category 6A, Solid, 500MHz
 Cable is used for indoor installation

Material

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

Technical Characteristic

Conductor diameter: 0.58 ± 0.02 mm (23AWG)
 Insulation diameter: 1.1 ± 0.01 mm
 Insulation thickness: Minimum 0.208 mm, Average 0.25 mm
 Insulation elongation: Minimum 300%
 Insulation tensile strength: Minimum 1.682 Kg/mm²
 Sheath thickness: Minimum 0.75mm, Average 0.80 mm



Sheath diameter: 10.5 ± 0.3 mm (0.41")
 Sheath elongation: Minimum 100%
 Sheath tensile strength: Minimum 1.407 Kg/mm²
 Operating temperature: -30°C – +70°C (-22°F – +158°F)
 Weight per 1000 ft (304.8 m): 21.3 kg (47.7 lbs)
 Standard package: 304.8 m (1000 ft)

Electrical Characteristic

Frequency , MHz	Pair Attenuation, dB/100m	NEXT losses, dB	PS NEXT, dB
1	2.1	74.3	72.3
10	5.9	59.3	57.3
100	19.1	44.3	42.3
200	27.6	39.8	37.8
250	31.1	38.3	36.3
300	34.3	37.1	35.1
400	40.1	35.3	33.3
500	45.3	33.8	31.8

Dielectric strength	2.5kV/3 seconds
Insulation resistance test	Min. 150MΩ/km
Conductor resistance at 20°C (68°F)	9.38Ω/100m (2.9Ω/100ft)
DC Resistance Unbalance	2%
Pair-to-Ground Capacitance Unbalance	160pF/100m (51pF/100 ft)
Impedance 1-500 MHz	100Ω-115Ω
Mutual Capacitance	5.6nF/m (1.7nF/ft)
Spark Test	2.5kV

Ordering Information

HI6AUS-**M-C** i-Net Networks Horizontal Indoor Cable Category6A UTP Solid 23AWG 4 Pair Milky Gray CM

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

C CM, **L**—LSZH, **P**—Plenum