

i-Net Networks 10G Category6A Unshielded Solid Cable

Compliance

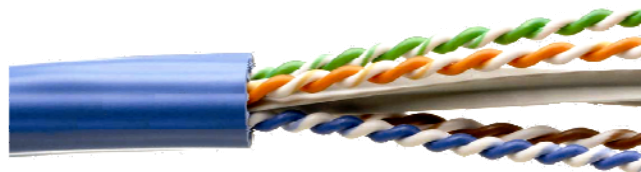
Meets ANSI/EIA/TIA 568-B.2-10 requirements
 Meets general purpose cable UL-1581 CM rating
 Meets fire retardant low smoke IEC60332-1 rating
 Meets ISO/IEC 2nd edition 11801 amendment 1.2
 Meets ISO/IEC 61156-2 2nd edition & CENELEC EN 50288-10-1

Material

Conductive material:
 Soft annealed electrolytic copper

Conductor insulation:
 HDPE, film-porous-film structure

Cable jacket:
 PVC/LSZH



Physical

Conductor diameter	0.57±0.02 mm (23AWG)
Insulation diameter	1.1±0.01 mm
Insulation thickness	min 0.208 mm, avg. 0.25 mm
Sheath diameter	10.5±0.3 mm (0.41")
Sheath thickness	min 0.75mm, avg. 0.80 mm
Insulation tensile strength	min 1.682 Kg/mm ²
Sheath tensile strength	min 1.407 Kg/mm ²
Insulation elongation	min 300%
Sheath elongation	min 100%
Operating temperature	-30°C~+70°C (-22°F~+158°F)
Weight per 1000ft (304.8m)	16.3 kg (35.94 lbs)
Standard package	1000 ft (304.8 m)

Technical

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

Electrical

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

Ordering

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

M **M**-Milky Gray, **B**-Blue, **G**-Green, **Y**-Yellow, **O**-Orange, **R**-Red, **W**-White

C **C**-PVC, **L**-LSZH