CAT 5E 24 AWG TWISTED PAIR CABLE

Description

Alantek Cat5E Twisted Pair Cable is designed to support high-bandwidth application up to 1 Gigabit Ethernet. The cable is composed of 24 AWG bare solid copper conductors insulated with High Density Polyethylene (HDPE) insulation. For the unshielded cable, the insulated conductors are twisted into pairs and complete with an Outer Jacket. For the shielded cable, an additional layer of Aluminium laminated foil covers the 4 pairs of insulated conductor.

Application

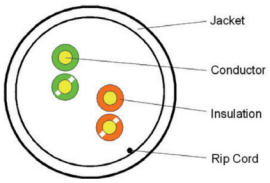
Horizontal wiring, suitable for application up to 1 Gigabit Ethernet.

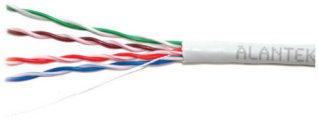
Standards

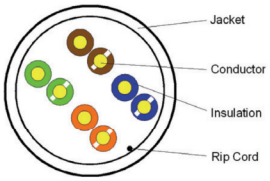
TIA/EIA 568B, ISO/IEC 11801, UL 444

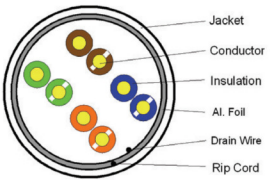
Physical Characteristics

- Conductor:
  - Material: Solid Bare Copper
  - Size: 24 AWG
  - Diameter: 1/0.50 ± 0.02 mm
- Conductor Insulation:
  - Material: HDPE
  - Min. Ave. Thickness: 0.21 mm
  - Min. Thickness at any point: 0.20 mm
  - Diameter: 0.92 ± 0.02 mm
- Jacket:
  - Material: PVC
  - Min. Ave. Thickness: 0.52 ± 0.02 mm
  - Min. Thickness at any point: 0.50 mm
  - Diameter: 5.0 ± 0.2 mm
- Max Tensile Load (Installation): 100 N









Electrical Characteristics

FREQ.	ATTN.	NEXT	ACR	RL	PS NEXT	PS ACR	ELFEXT	PS ELFEXT
MHz	dB/100m	dB	dB/100m	dB	dB	dB/100m	dB	dB
1.0	2.0	67.0	65.0	20.0	65.0	63.0	69.0	66.0
4.0	4.0	58.0	54.0	23.0	56.0	52.0	56.8	53.8
10.0	6.3	52.0	45.7	25.0	50.0	43.7	49.0	46.0
16.0	8.0	48.9	40.9	25.0	46.9	38.9	44.8	41.8
20.0	9.0	47.5	38.5	25.0	45.5	36.5	42.5	39.5
31.25	11.4	44.6	33.2	23.6	42.6	31.6	39.0	36.0
62.5	16.5	40.1	23.6	21.5	38.1	21.6	32.9	29.9
100.0	21.3	37.0	15.7	20.1	35.0	13.7	29.0	26.0

*** Electrical Characteristics are based on Cat5E 4-pairs cable**

Part #	Description
301-10004E-00GY	Cat 5E Unshielded Twisted Pair, 2-pair Solid Cable, PVC, Grey - 305m/box
301-10008E-00GY	Cat 5E Unshielded Twisted Pair, 4-pair Solid Cable, PVC, Grey - 305m/box
301-10008E-05GY	Cat 5E Unshielded Twisted Pair, 4-pair Solid Cable, PVC, Grey - 500m/reel
301-10008E-10GY	Cat 5E Unshielded Twisted Pair, 4-pair Solid Cable, PVC, Grey - 1000m/reel
301-10F08E-00GY	Cat 5E Shielded Twisted Pair, 4-pair Solid Cable, PVC, 305m/reel

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