

Technical drawing of a CAT.6 UTP 24AWGx4P LAN cable assembly, showing dimensions, marking, and specifications.

Dimensions:

- Length: 1.575inch approx [40±2mm]
- Plug P1: 8 pins, 1 pin (1.27mm)
- Plug P2: 8 pins, 1 pin (1.27mm)
- Label: 25.4mm x 15mm x 20mm

Marking: BLACK BOX CORPORATION — GIGATRUE CATEGORY 6 — TESTED TO 550MHZ — ▲ E196163-Y CM (UL) c(UL) UTP 60°C 4PR 24AWG STR ▲ 3P VERIFIED TO ANSI/TIA-568.2-D MM-YY

Conductor: Bare Copper 24AWG 7/0.00772inch approx

Insulation: Thickness: MIN at any point: 0.0059inch MAX AVG: 0.0098inch Diameter: 0.0409inch approx

Jacketing: PVC Thickness: MIN at any point: 0.0236inch MAX AVG: 0.0256inch Diameter: 0.2323inch approx

WIRE: CAT.6 UTP Stranded 24AWGX4P

PLUG: Assembly+BOOT 8P8C 50u" (1.27mm) Gold 3 piece plug (film+stand+plug)

COLOR: GREEN

Pinout:

P1(T568B)	P2(T568B)	WIRE
1	1	WHITE/ORANGE
2	2	ORANGE
3	3	WHITE/GREEN
6	6	GREEN
4	4	BLUE
5	5	WHITE/BLUE
7	7	WHITE/BROWN
8	8	BROWN

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Specifications:

- Attenuation (Maximum): 39.4dB @250MHZ; 62.1dB @550MHZ
- Cable Type: 4-pair UTP
- Conductor Gauge: 24AWG, stranded
- Frequency: Up to 550MHZ
- Impedance: 100±15 ohms
- NEXT (Minimum): 38.3dB @250MHZ; 33.1dB @550MHZ
- PS-NEXT (Minimum): 36.3dB @250MHZ; 31.2dB @550MHZ
- Return Loss (Minimum): 15.3dB @250MHZ; 2.98dB @550MHZ
- Standards: ANSI/TIA-568.2-D CAT.6 Channel

Notes:

- Channel Test
- 100% Test (Open, short, miswire)
- Contact Resistance: 4Ω Max.
- Insulation Resistance: DC/250V, 10 MΩ Min. For 0.01s
- Hi-pot Test: AC/250V 5mA Max. For 0.01s
- All Material meet the RoHS2.0, Reach

Assembly: RJ45 Plugs Standard - IEC 60603-7

Parts List:

No.	TITLE	DESCRIPTION	Q'TY
④	Label	Cable Label 35x25.4mm	1PC
③	Boot	Transparent Boot Marking "BLACK BOX"	2PCS
②	Plug	RJ45 8P8C 50u" Unshielded Marking "BLACK BOX"	2PCS
①	Cable	LAN CABLE Cat.6 U/UTP 24AWGx4P STR PVC CM	A/R

Standards: ANSI/TIA-568.2-D CAT.6 Channel

Black Box Logo: BLACK BOX CORPORATION

Approved by: P/N: C6PC70-GN-XX

Drawn by: LMF

Date: 2022. 11. 09

DWG. NO.:

Scale: Unut: mm

AHEET: 1 OF 1

REV: 03