

NETWORK CABLE



CATEGORY 5e UTP Patch Cable

Description

ACTON's economical Category 5e UTP Patch Cable is ideal for installations that require future proof performance. It transmits reliable voice and data, is easy to prepare, terminate and install, and exceeds TIA/EIA568-B, ISO/IEC 11801, and AS/NZS 3080 Category 5e specifications.

This 4 pair UTP Patch cable is designed for patching applications in a high speed structured cabling network, allowing connection between the user outlet and equipment, or in the cross connect between patch panels and equipment.

ACTON Patch cable is designed to support the most sophisticated networking protocols such as ATM 155/622Mbps, Ethernet 10 BASE-T, 100BASE-T, 100BASE-TX, 1000BASE-T Gigabit Ethernet, 4/16 Mb/s Token Ring or Broadband Video. It is designed for full and half duplex operation.

Ordering Information:

C5PL305-XX CAT5e Patch Cable

XX = colour *Blue (BL), Black (BK) Green (GN), Grey (GY), Orange (OR), Pink (PK), Purple (PL), Red (RD), White (WH), Yellow (YL).*

Key Features

- 4-Pair Unshielded Twisted Pair Patch Cable
- 24 AWG Stranded Bare Copper Conductors
- Meets TIA/EIA, ISO/IEC, AS/NZS, & AS/ACIF Specifications
- Suitable for High Speed Networks such as Gigabit Ethernet
- Metre Marked PVC Sheath
- 305m Easy Pull No Tangle Box
- Cable Usage Record On Box
- Easy to Handle and Install

Available From:

Specifications

General / Environmental:

Operating temperature: -20 to +60°C
 Max pulling tension: 86 N
 Shipping weight: 11.2kg/305m nominal

Electrical Characteristics:

Dielectric Strength: AC 1.5 kV (Min) (2.5 kV DC)
 Insulation resistance: $\geq 500M\Omega$ 305m @ 20°C(Min):
 Characteristic Impedance: $100\Omega \pm 15\%$
 DC Resistance Unbalance: 5%(Max):
 Worst case delay skew: 45nS/100m(Max)
 Mutual capacitance: 56pF/m (Max)
 Propagation delay: 538nS/100m (Max)
 Nominal velocity propagation: 62.3% Min @ 100Mhz

Conductor:

Material: Stranded bare copper wire
 Size: 24 AWG
 Conductor diameter: $7 / 0.205 \pm 0.008$
 Insulation: HDPE High Density Polyethylene
 Ins. Diameter: $0.99mm \pm 0.2mm$
 DC Resistance: $9.38\Omega / 100m @ 20^\circ C(Max)$

Sheath / Jacket:

Material: PVC 75°C
 Overall Diameter: $5.4mm \pm 0.2mm$
 Flammability UL rating: CM grade
 Avg. thickness: 0.55mm

Pair identification:

Pair 1 - Blue / White-Blue stripe
 Pair 2 - Orange / White-Orange stripe
 Pair 3 - Green / White-Green stripe
 Pair 4 - Brown / White-Brown stripe

Performance

Standards:

ANSI/TIA/EIA-568-B.2 Category 5e
 ISO/IEC 11801: 2002
 AS/NZS 3080: 2003
 AS/ACIF S008: 2001

Certification:

Certified Category 5e by ETL



Guaranteed performance:

ITEM(d B) Frequency (MHz)	ATT MAX. (dB/100m)	NEXT MIN. (d B)	ACR MIN. (dB)	PS. NEXT MIN. (dB)	PS. ACR MIN. (dB)	ELFEXT MIN. (dB/100m)	PS. ELFEXT MIN. (Db/100m)	R.L. MIN. (d B)
1	2.4	65.3	62.9	62.3	59.9	63.8	60.8	20.0
4	4.9	56.3	51.4	53.3	48.4	51.7	48.7	23.0
8	6.9	51.8	44.9	48.8	41.9	45.7	42.7	24.5
10	7.8	50.3	42.5	47.3	39.5	43.8	40.8	25.0
16	9.8	47.3	37.5	44.3	34.5	39.7	36.7	25.0
20	11.2	45.8	34.6	42.8	31.6	37.8	34.8	25.0
25	12.5	44.3	31.8	41.3	28.8	35.8	32.8	24.2
31.25	14.0	42.9	28.9	39.9	25.9	33.9	30.9	23.3
62.5	20.4	38.4	18.0	35.4	15.0	27.8	24.8	20.7
100	26.4	35.3	8.9	32.3	5.9	23.8	20.8	19.0

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