

TrueNet®

Category 5e UTP Cable

Issue 3



This Category 5e UTP 4-pair Cable is an unshielded cable, designed to provide Category 5e Enhanced Link and Channel performance with internationally defined physical and electrical performance up to 100MHz.

The insulation on the 4 pairs for twisted copper are colour coded: Blue, Orange, Green, Brown.

Specifications

Conductor: 0.5mm Dia. (24 AWG) copper
Insulation: Polyethylene
Jacket: PVC
Complies to: ISO/IEC11801
TIA/EIA 568-B.2
IEC60332.1

Mechanical:

Minimum bending radius:
- During installation 50mm
- After installation 25mm
Maximum pulling tension: 108N (11kg)
Box mass, full, nominal: 11kg

Thermal:

Operation: -15°C to 70°C
Installation: 5°C to 40°C
Flame rating: CM

Electrical:

Conductor DC resistance @ 20°C (max): 9.38Ω/100m
DC resistance unbalance (max): 5%
Mutual capacitance @ 20°C (max): 5.6nF/100m
Worst case cable skew: 45ns/100m
NVP setting: 70%
Operating voltage (max): 300Vdc

SPEC SHEET



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Category 5e UTP Cable

| Freq | Attenuation | Pr-Pr NEXT | Power Sum NEXT | Return Loss | Pr-Pr ELFEXT | Power Sum ELFEXT | Pr-Pr ACR | Power Sum ACR |
|--------|-------------|------------|----------------|-------------|--------------|------------------|-----------|---------------|
| (MHz) | (dB/100m) | (dB/100m) | (dB/100m) | (dB/100m) | (dB/100m) | (dB/100m) | (dB/100m) | (dB/100m) |
| 1.00 | 1.95 | 77.2 | 77.0 | 31.5 | 74.7 | 76.9 | 75.2 | 75.0 |
| 4.00 | 3.62 | 71.0 | 68.7 | 28.7 | 64.7 | 64.7 | 67.4 | 65.1 |
| 10.00 | 6.11 | 61.4 | 61.8 | 32.1 | 55.9 | 55.7 | 55.3 | 55.6 |
| 16.00 | 7.89 | 60.4 | 66.3 | 32.1 | 51.7 | 51.7 | 52.5 | 58.4 |
| 20.00 | 8.77 | 55.5 | 64.8 | 28.9 | 50.0 | 49.7 | 46.7 | 56.1 |
| 31.25 | 11.09 | 52.4 | 53.8 | 28.8 | 46.1 | 45.1 | 41.3 | 42.7 |
| 62.50 | 15.96 | 52.4 | 52.4 | 25.2 | 39.1 | 38.9 | 36.5 | 36.5 |
| 100.00 | 20.41 | 47.0 | 46.2 | 26.8 | 31.8 | 34.2 | 26.6 | 25.8 |
| 200.00 | 29.73 | 39.1 | 41.8 | 19.1 | 25.1 | 28.8 | 9.4 | 12.0 |
| 250.00 | 33.53 | 38.4 | 42.6 | 19.3 | 25.3 | 31.1 | 4.9 | 9.1 |
| 300.00 | 36.74 | 36.1 | 34.8 | 16.9 | 18.9 | 18.3 | -0.7 | -2.0 |
| 350.00 | 39.89 | 32.3 | 33.0 | 15.8 | 17.7 | 15.8 | -7.6 | -6.9 |

Note: The above listed discrete frequency performance values are provided for engineering information only. Actual compliance testing is based on swept frequency measurements. The spec values are based on TIA.EIA 568-B.2 specifications.

Ordering Information

| Description | Quantity | Colour | Product No. |
|-------------------------------------|-----------|--------|---------------|
| Category 5e 4-pair Cable, Solid UTP | 305m reel | Grey | 6499 1 028-01 |
| Category 5e 4-pair Cable, Solid UTP | 305m reel | Blue | 6499 1 028-02 |

SPEC SHEET



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