

TrueNet®

Category 5e UTP Cable

Issue 4



This Category 5e UTP 4-pair Cable is an unscreened 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
Outside diameter: 5.0mm nominal
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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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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