



Cat 5e UTP PVC Cable

Construction

Conductor	24 awg solid bare copper
Insulation	Polyolefin
Pair	4 twisted pairs: white/blue & blue, white/orange & orange, white/green & green, white/brown & brown
Sheath	Flame retardant PVC Overall diameter: 4.8mm

BATT Part Number, grey	54247
BATT Part Number, blue	54243
BATT Part Number, green	54244
BATT Part Number, yellow	54245
BATT Part Number, white	54266

Applications

Horizontal gigabit ethernet 100 Base-TX

Standards

ISO/IEC 11801, UL verified to Category 5e

General Characteristics

Temperature range - operation	-20°C to +60°C
Temperature range - installation	0°C to +60°C
Minimum bending radius	25.4 mm
Maximum pulling tension	155N
Weight	29.76 kg/km
Maximum operating voltage	300 V rms

Electrical Characteristics at 20°C

Nominal mutual capacitance at 1kHz	49.2 nF/km
Max conductor DCR	9.38 Ohm/100m
Nominal Velocity of Propagation	70 %

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Electrical Characteristics at 20°C (cont)

Attenuation

Frequency MHz	1	4	10	16	20	25	31.2	62.5	100	155	200
dB/100m	2.0	4.1	6.5	8.2	9.3	10.4	11.7	17.0	22.0	28.1	32.4

NEXT Near end crosstalk

Frequency MHz	1	4	10	16	20	25	31.2	62.5	100	155	200
dB/100m	65.3	56.3	50.3	47.3	45.8	44.3	42.9	38.4	35.3	32.5	30.8

Power sum NEXT

Frequency MHz	1	4	10	16	20	25	31.2	62.5	100	155	200
dB/100m	62.3	53.3	47.3	44.3	42.8	41.3	39.9	35.4	32.3	29.5	27.8

Power sum ELFEXT

Frequency MHz	1	4	10	16	20	25	31.2	62.5	100	155	200
dB/100m	60.8	48.7	40.8	36.7	34.7	32.8	30.9	24.9	20.8	16.9	14.7

ACR

Frequency MHz	1	4	10	16	20	25	31.2	62.5	100	155	200
dB/100m	63.0	51.0	43.0	39.0	36.5	33.9	31.0	22.0	14.0	4.4	4.0

Power sum ACR

Frequency MHz	1	4	10	16	20	25	31.2	62.5	100	155	200
dB/100m	60.3	49.2	40.8	36.0	33.5	30.9	28.2	19.0	10.3	1.4	1.0

Return Loss

Frequency MHz	1	4	10	16	20	25	31.2	62.5	100	155	200
dB/100m	20.0	23.0	25.0	25.0	25.0	24.3	23.6	21.5	20.1	15.8	15.0

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