

Product data sheet

Specifications



Category 6 4 pair UTP Cable 305m

DC6CAUTP4P3X

Main

Product or component type	Copper cable
Cable shielding type	UTP
Communication network category	6
Colour tint	Grey

Complementary

Type of cable	4 twisted-pairs cable
Conductor material	Solid bare copper
Minimum return loss	20 dB 1 MHz 23 dB 4 MHz 24.5 dB 8 MHz 25 dB 10 MHz 25 dB 16 MHz 25 dB 20 MHz 24.3 dB 25 MHz 23.6 dB 31.25 MHz 21.5 dB 62.5 MHz 20.1 dB 100 MHz 18.9 dB 150 MHz 18 dB 200 MHz 17.3 dB 250 MHz
Attenuation	2 dB / 100 m at 1 MHz 3.8 dB / 100 m at 4 MHz 5.3 dB / 100 m at 8 MHz 6 dB / 100 m at 10 MHz 7.6 dB / 100 m at 16 MHz 8.5 dB / 100 m at 20 MHz 9.5 dB / 100 m at 25 MHz 10.7 dB / 100 m at 31.25 MHz 15.4 dB / 100 m at 62.5 MHz 19.8 dB / 100 m at 100 MHz 24.7 dB / 100 m at 150 MHz 29 dB / 100 m at 200 MHz 32.8 dB / 100 m at 250 MHz
Attenuation to crosstalk ratio [ACR]	72 dB at 1 MHz 61 dB at 4 MHz 55 dB at 8 MHz 53 dB at 10 MHz 49 dB at 16 MHz 46 dB at 20 MHz 44 dB at 25 MHz 41 dB at 31.25 MHz 32 dB at 62.5 MHz 25 dB at 100 MHz 16.9 dB at 150 MHz 10.8 dB at 200 MHz 5.5 dB at 250 MHz
Power sum near-end crosstalk [PSNEXT]	72.3 dB at 1 MHz 63.3 dB at 4 MHz

58.8 dB at 8 MHz
57.3 dB at 10 MHz
54.2 dB at 16 MHz
52.8 dB at 20 MHz
51.3 dB at 25 MHz
49.9 dB at 31.25 MHz
45.4 dB at 62.5 MHz
42.3 dB at 100 MHz
39.7 dB at 150 MHz
37.8 dB at 200 MHz
36.3 dB at 250 MHz

Near end crosstalk [NEXT] 74.3 dB at 1 MHz
65.3 dB at 4 MHz
60.8 dB at 8 MHz
59.3 dB at 10 MHz
56.2 dB at 16 MHz
54.8 dB at 20 MHz
53.3 dB at 25 MHz
51.9 dB at 31.25 MHz
47.4 dB at 62.5 MHz
44.3 dB at 100 MHz
41.7 dB at 150 MHz
39.8 dB at 200 MHz
38.3 dB at 250 MHz

Equal level far end crosstalk [ELFEXT] 67.8 dB at 1 MHz
55.8 dB at 4 MHz
49.7 dB at 8 MHz
47.8 dB at 10 MHz
43.7 dB at 16 MHz
41.8 dB at 20 MHz
39.8 dB at 25 MHz
37.9 dB at 31.25 MHz
31.9 dB at 62.5 MHz
27.8 dB at 100 MHz
24.3 dB at 150 MHz
21.8 dB at 200 MHz
19.8 dB at 250 MHz

Power sum equal level far end crosstalk [PSELFEXT] 64.8 dB at 1 MHz
52.8 dB at 4 MHz
46.7 dB at 8 MHz
44.8 dB at 10 MHz
40.7 dB at 16 MHz
38.8 dB at 20 MHz
36.8 dB at 25 MHz
34.9 dB at 31.25 MHz
28.9 dB at 62.5 MHz
24.8 dB at 100 MHz
21.3 dB at 150 MHz
18.8 dB at 200 MHz
16.8 dB at 250 MHz

Delay skew 570 ns / 100 m at 1 MHz
552 ns / 100 m at 4 MHz
547 ns / 100 m at 8 MHz
545 ns / 100 m at 10 MHz
543 ns / 100 m at 16 MHz
542 ns / 100 m at 20 MHz
541 ns / 100 m at 25 MHz
540 ns / 100 m at 31.25 MHz
539 ns / 100 m at 62.5 MHz
538 ns / 100 m at 100 MHz
537 ns / 100 m at 150 MHz
537 ns / 100 m at 200 MHz
536 ns / 100 m at 250 MHz

Input impedance 100 Ohm (+/- 6 %) at 1...300 MHz

DC resistance 72 Ohm

Insulation resistance >= 500 mOhm/km500 V DC

Nominal velocity propagation 69 %

Cable outer diameter 6 mm

Cable length 305 m

AWG gauge AWG 23

Material PVC (polyvinyl chloride): jacket

Environment

Flame retardance V-0 conforming to UL 94

Product certifications UL listed

UL/ETL verified

Standards	ANSI/TIA-568-C.2 ISO/IEC 11801
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Packing Units

Unit Type of Package 1	Db
Number of Units in Package 1	1
Package 1 Height	41.0 cm
Package 1 Width	22.0 cm
Package 1 Length	40.0 cm
Package 1 Weight	12.0 kg
Unit Type of Package 2	PAL
Number of Units in Package 2	20
Package 2 Height	95.0 cm
Package 2 Width	80.0 cm
Package 2 Length	120.0 cm
Package 2 Weight	253.0 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile

Contractual warranty

Warranty	18 months
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Recommended replacement(s)