



Product: [7834ANC](#)

CAT 6 4P23AWG, U/UTP, LSZH Jkt, Indoor

Product Description

CAT 6 4PR x 23AWG U/UTP, Solid Bare Copper Conductor, PO Insulation, LSZH Jacket, Indoor

Technical Specifications

Product Overview

Suitable Applications:	Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422, 250MHz Category 6 and PoE application
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
23	Solid	BC - Bare Copper	4

Insulation

Material	Nominal Diameter
PO - Polyolefin	1.0 mm

Color Chart

Number	Color
Pair #1	Blue & White with Blue Markings
Pair #2	Orange & White with Orange Markings
Pair #3	Green & White with Green Markings
Pair #4	Brown & White with Brown Markings

Outer Jacket Material

Material	Nominal Diameter	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	5.8 mm	Yes

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. DCR Unbalance
93.8 Ohm/km at 20°C	5 %

Capacitance

Max. Capacitance Unbalance	Nom. Mutual Capacitance
330 pF/100m	56 pF/m

Impedance

Nominal Characteristic Impedance
100 Ohm

Delay

Frequency [MHz]	Max. Delay	Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]
100 MHz	538 ns/100m	45 ns/100m	65%

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACR [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]
1 MHz	2.0 dB/100m	75.3 dB	72.3 dB	73.3 dB	70.3 dB	67.8 dB	64.8 dB	20.0 dB
4 MHz	3.8 dB/100m	66.3 dB	63.3 dB	62.5 dB	59.5 dB	56.0 dB	53.0 dB	23.0 dB
10 MHz	6.0 dB/100m	60.3 dB	57.3 dB	54.3 dB	51.3 dB	48.0 dB	45.0 dB	25.0 dB
16 MHz	7.6 dB/100m	57.2 dB	54.2 dB	49.6 dB	46.6 dB	43.9 dB	40.9 dB	25.0 dB
20 MHz	8.5 dB/100m	55.8 dB	52.8 dB	47.3 dB	44.3 dB	42.0 dB	39.0 dB	25.0 dB
31.25 MHz	10.7 dB/100m	52.9 dB	49.9 dB	42.2 dB	39.2 dB	38.1 dB	35.1 dB	23.6 dB
62.5 MHz	15.5 dB/100m	48.4 dB	45.4 dB	32.9 dB	29.9 dB	32.1 dB	29.1 dB	21.5 dB
100 MHz	19.9 dB/100m	45.3 dB	42.3 dB	25.4 dB	22.4 dB	28.0 dB	25.0 dB	20.1 dB
150 MHz	24.8 dB/100m	42.7 dB	39.7 dB	17.9 dB	14.9 dB	24.5 dB	21.5 dB	18.9 dB
200 MHz	29.1 dB/100m	40.8 dB	37.8 dB	11.7 dB	8.7 dB	22.0 dB	19.0 dB	18.0 dB
250 MHz	32.8 dB/100m	39.3 dB	36.3 dB	6.5 dB	3.5 dB	20.0 dB	17.0 dB	17.3 dB
300 MHz	36.5 dB/100m	37.1 dB	34.1 dB	0.6 dB	-2.4 dB	18.2 dB	15.2 dB	16.7 dB
230 MHz	40 dB/100m	36.1 dB	33.1 dB	-3.9 dB	-6.9 dB	16.9 dB	13.9 dB	16.3 dB
400 MHz	43.1 dB/100m	35.2 dB	32.2 dB	-7.9 dB	-10.9 dB	15.7 dB	12.7 dB	16.0 dB
450 MHz	46.2 dB/100m	34.5 dB	31.5 dB	-11.7 dB	-14.7 dB	14.7 dB	11.7 dB	15.4 dB
500 MHz	49.1 dB/100m	33.8 dB	30.8 dB	-15.3 dB	-18.3 dB	13.8 dB	10.8 dB	15.2 dB
550 MHz	52 dB/100m	33.2 dB	30.2 dB	-18.8 dB	-21.8 dB	13.0 dB	10.0 dB	14.9 dB
600 MHz	55 dB/100m	33 dB	30 dB	-21.85 dB	-24.8 dB	12.2 dB	9.2 dB	14.6 dB

Table Notes: For the frequency exceed 250MHz, the values for information only

Voltage

Voltage Rating [V]

72 Vdc

Temperature Range

Operating Temp Range: -20°C To +75°C

Mechanical Characteristics

Oil Resistance:	Yes
Bulk Cable Weight:	40 kg/km
Max. Pull Tension:	110 N
Min Bend Radius During Installation:	28.4 mm

Standards

IEC Compliance:	ISO/IEC 11801
Data Category:	Category 6
TIA/EIA Compliance:	568-2.D Category 6
IEEE Compliance:	IEEE 802.3bt Type1, Type2, Type3, Type4
NEMA Compliance:	NEMA WC-63.1 Category 6

Applicable Environmental and Other Programs

Environmental Space:	Indoor
EU Directive 2011/65/EU (ROHS II):	Yes

Suitability

Suitability - Indoor:	Yes
Suitability - Oil Resistance:	Yes
Suitability - Outdoor:	No

Flammability, LSOH, Toxicity Testing

IEC Flammability:	60332-3-22 (Category A)
IEC 60754-1 (EN50267-1)- Halogen Amount:	5 mg/g
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity:	10 µS/mm
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 (EN 61034-2) (VDE 0482-1034) - Smoke Density Min. Transmittance:	≥ 60% Light Transmittance

Part Number

Variants

Item #	Color	Putup Type	Length
7834ANC 006U1000	Blue	Unreel	1,000 ft
7834ANC 008U1000	Grey	Unreel	1,000 ft

Product Notes

Notes:	Jacket sequentially marked
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History

Update and Revision:	Revision Number: 0.29 Revision Date: 12-25-2020
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