



Product: [7834ANC](#) 

CAT 6 4P 23AWG, U/UTP, LSZH Jkt, Indoor

Product Description

CAT 6 4PR x 23AWG U/UTP, Solid Bare Copper Conductor, PE Insulation, LSZH Jacket, Indoor, IEC 60332-3-22

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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Construction Details

Conductor

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

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	0.98 mm (0.039 in)	Blue & White with Blue Stripe, Orange & White with Orange Stripe, Green & White with Green Stripe, Brown & White with Brown Stripe

Outer Jacket

Material	Nom. Diameter	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	5.8 mm (0.23 in)	Yes

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Mutual Capacitance	Max. Capacitance Unbalance	Nom. Characteristic Impedance
93.8 Ohm/km (28.6 Ohm/1000ft)	56 pF/m (17 pF/ft)	330 pF/100m	100 Ohm

Delay

Frequency	Max. Delay	Max. Delay Skew	Nom. Velocity of Prop.
100 MHz	538 ns/100m	45 ns/100m	65%

High Frequency

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]	Min. TCL [dB]	Min. ELTCTL [dB]
1	2.0 dB/100m	75.3	72.3	73.3	70.3	67.8	64.8	20.0	40.0	35.0
4	3.8 dB/100m	66.3	63.3	62.5	59.5	56.0	53.0	23.0	40.0	23.0
8	5.3 dB/100m	60.3	58.8	55.5	54.5	49.7	46.7	24.5	40.0	16.9
16	7.6 dB/100m	57.2	54.2	49.6	46.6	43.9	40.7	25.0	38.0	10.9
20	8.5 dB/100m	55.8	52.8	47.3	44.3	41.8	38.8	25.0	37.0	9.0
31.25	10.7 dB/100m	52.9	49.9	42.2	39.2	38.1	35.1	23.6	35.1	
62.5	15.5 dB/100m	48.4	45.4	32.9	29.9	32.1	29.1	21.5	32.0	
100	19.9 dB/100m	45.3	42.3	25.4	22.4	27.8	24.8	20.1	30.0	
150	24.8 dB/100m	42.7	39.7	17.9	14.9	24.5	21.5	18.9	28.2	
200	29.1 dB/100m	40.8	37.8	11.7	8.7	22.0	19.0	18.0	27.0	
250	32.8 dB/100m	39.3	36.3	6.5	3.5	20.0	17.0	17.3	26.0	
300	36.5 dB/100m	37.1	34.1			18.2	15.2	16.7	25.2	

230	31.3 dB/100m	38.9	36.9			16.9	13.9	16.3		
400	43.0 dB/100m	35.2	32.2			15.7	12.7	16.0		
450	46.2 dB/100m	34.5	31.5			14.7	11.7	15.4		
500	49.1 dB/100m	33.8	30.8			13.8	10.8	15.2		
550	52.0 dB/100m	33.2	30.2			13.0	10.0	14.9		
600	55.0 dB/100m	33	30			12.2	9.2	14.6		

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

Mechanical Characteristics

Temperature

Operating
-20°C To +75°C

Bend Radius

Installation Min.
28.4 mm (1.12 in)

Max. Pull Tension:	110 N (25 lbf)
Bulk Cable Weight:	40 kg/km (27 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Indoor, Indoor, Non-Halogenated
Flammability / Reaction to Fire:	IEC 60332-3-22
CEC / C(UL) Compliance:	.
IEEE Compliance:	PoE: IEEE 802.3bt Type 1, Type 2, Type 3, Type 4
Data Category:	Category 6
TIA/EIA Compliance:	ANSI/TIA 568.2-D
ISO/IEC Compliance:	ISO/IEC 11801-1, IEC 61156-5
European Halogen Free Standards:	IEC 60754-1 - Halogen Amount = 5 mg/g, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 10 μS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3, IEC 61034-2 - Smoke Density Min. Transmittance = 60%
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

Notes:	Jacket sequentially marked
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History

Update and Revision:	Revision Number: 0.60 Revision Date: 02-20-2026
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Part Numbers

Variants

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

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