



Product: [7834ANH](#)

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

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
100 MHz	538 ns/100m	45 ns/100m

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	74.3	72.3	72.3	70.3	67.8	64.8	20.0	40.0	35.0
4	3.8 dB/100m	65.3	63.3	61.5	59.5	55.8	52.8	23.0	40.0	23.0
8	5.3 dB/100m	60.8	58.8	55.5	54.5	49.7	46.7	24.5	40.0	16.9
10	6.0 dB/100m	59.3	57.3	53.3	51.3	47.8	44.8	25.0	40.0	15.0
16	7.6 dB/100m	56.2	54.2	48.7	46.7	43.7	40.7	25.0	38.0	10.9
20	8.5 dB/100m	54.8	52.8	46.3	44.3	41.8	38.8	25.0	37.0	9.0
25	9.5 dB/100m	53.3	51.3	43.8	41.8	39.8	36.8	24.3	36.0	7.0
31.25	10.7 dB/100m	51.9	49.9	41.2	39.2	37.9	34.9	23.6	35.1	
62.5	15.4 dB/100m	47.4	45.4	32.0	30.0	31.9	28.9	21.5	32.0	
100	19.8 dB/100m	44.3	42.3	24.5	22.5	27.8	24.8	20.1	30.0	
155	25.2 dB/100m	41.4	39.4	16.3	14.3	24.0	21.0	18.8	27.0	

200	29.0 dB/100m	39.8	37.8	10.8	8.8	21.8	18.8	18.0	27.0	
250	32.8 dB/100m	38.3	36.3			19.8	16.8	17.3		

Table Notes: Jacket sequentially marked. Typical Values are for reference only.

Mechanical Characteristics

Temperature

Operating
-20°C To +75°C

Bend Radius

Installation Min.
24.4 mm (0.961 in)

Max. Pull Tension:	110 N (25 lbf)
Bulk Cable Weight:	39 kg/km (26 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Indoor, Indoor, Non-Halogenated
Flammability / Reaction to Fire:	IEC 60332-1-2
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, IEC 61034-2 - Smoke Density Min Transmittance = Min. 60% as per IEC 61034-2
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
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: 0.64 Revision Date: 04-29-2024
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Part Numbers

Variants

Item #	Color	Putup Type	Length
7834ANH 006A1000	Blue	Reel in Box	1,000 ft
7834ANH 006U1000	Blue	Unreel	1,000 ft
7834ANH 008A1000	Grey	Reel in Box	1,000 ft
7834ANH 008U1000	Grey	Unreel	1,000 ft

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