



Product: [1583ANS](#)

CAT 5E 4P 24AWG, U/UTP, LSZH Jkt, Indoor

Product Description

CAT 5E 4PR x 24AWG U/UTP, Solid Bare Coppe Conductor, PE Insulation, LSZH Jacket, Indoor

Technical Specifications

Product Overview

Suitable Applications:	Premise Horizontal Cable, 1000BaseT, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422
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Construction Details

Conductor

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

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	0.89 mm (0.035 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)	4.95 mm (0.195 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	70%

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]
1	2.0 dB/100m	65.3	62.3	63.3	60.3	63.8	60.8	20.0
4	4.1 dB/100m	56.3	53.3	52.2	49.2	51.7	48.7	23.0
8	5.8 dB/100m	51.8	48.8	46.0	45.0	45.7	42.7	24.5
10	6.5 dB/100m	50.3	47.3	43.8	40.8	43.8	40.8	25.0
16	8.2 dB/100m	47.3	44.2	39.1	36.0	39.7	36.7	25.0
20	9.3 dB/100m	45.8	42.8	36.5	33.5	37.8	34.8	25.0
25	10.4 dB/100m	44.3	41.3	33.9	30.9	33.9	30.9	24.3
31.25	11.7 dB/100m	42.9	39.9	31.0	28.0	33.9	30.9	23.6
62.5	17.0 dB/100m	38.4	35.4	21.4	18.4	27.9	24.9	21.5
100	22.0 dB/100m	35.3	32.3	13.3	10.3	23.8	20.8	20.1

Mechanical Characteristics

Temperature

Operating
-20°C to +75°C

Bend Radius

Installation Min.
20.0 mm (0.787 in)

Max. Pull Tension:	110 N (25 lbf)
Bulk Cable Weight:	32.5 kg/km (21.8 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Indoor, Indoor, Non-Halogenated, Oil Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2
NEMA Compliance:	NEMA WC-63.1 Category 5E
Data Category:	Category 5e
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 = Zero, 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 2011/65/EU (RoHS 2)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.50 Revision Date: 04-29-2024
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Part Numbers

Variants

Item #	Color	Putup Type	Length
1583ANS 006U1000	Blue	Unreel	1,000 ft
1583ANS 008U1000	Grey	Unreel	1,000 ft
1583ANS 0081000M	Grey	Reel	1,000 m

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