



Product: [7814ANB1](#)

Category 6 – U/UTP 4Pair 24AWG, GB 31247 B1 Rating

Product Description

7814ANB1 - Category 6 – U/UTP 4Pair 24AWG, GB 31247 B1 Rating

Technical Specifications

Product Overview

Suitable Applications:	Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG, 1000BaseTX, 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
24 AWG	Solid	BC - Bare Copper

Insulation

Material	Color Code
PE - Polyethylene	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)	6.2 mm (0.24 in)	Yes

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance	Nom. Characteristic Impedance
93.8 Ohm/km	330 pF/100m	100 Ohm

Delay

Max. Delay	Max. Delay Skew
538 ns/100m	45 ns/100m

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation) [dB/100m]	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	74.3	72.3	72.3	70.3	67.8	64.8	20.0
4	3.8	65.3	63.3	61.5	59.5	55.8	52.8	23.0
8	5.3	60.8	58.8	55.4	53.4	49.7	46.7	24.5
10	6.0	59.3	57.3	53.3	51.3	47.8	44.8	25.0
16	7.6	56.2	54.2	48.7	46.7	43.7	40.7	25.0
20	8.5	54.8	52.8	46.3	44.3	41.8	38.8	25.0
25	9.5	53.3	51.3	43.8	41.8	39.8	36.8	24.3
31.25	10.7	51.9	49.9	41.2	39.2	37.9	34.9	23.6
62.5	15.4	47.4	45.4	32.0	30.0	31.9	28.9	21.5
100	19.8	44.3	42.3	24.5	22.5	27.8	24.8	20.1
200	29.0	39.8	37.8	10.8	8.8	21.8	18.8	18.0

250	32.8	38.3	36.3	5.5	3.5	19.8	16.8	17.3
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Voltage

UL Voltage Rating
72 V DC

Mechanical Characteristics

Temperature

Operating
-20°C to +60°C

Bend Radius

Installation Min.
49.6 mm (1.95 in)

Max. Pull Tension:	110 N (25 lbf)
Bulk Cable Weight:	40.5 kg/km (27.2 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Indoor, Non-Halogenated
GB Compliance:	GB 31247
Data Category:	Category 6
TIA/EIA Compliance:	ANSI/TIA 568.2-D
ISO/IEC Compliance:	ISO/IEC 11801
European Directive Compliance:	EU Directive 2011/65/EU (RoHS 2)

Product Notes

Notes:	GB 31247 B1 (d0, t0, a1)
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History

Update and Revision:	Revision Number: 0.13 Revision Date: 03-10-2025
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Part Numbers

Variants

Item #	Color	Putup Type
7814ANB1 006305M	Blue	305 M
7814ANB1 008305M	Gray	305 M

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