

1500A Multi-Conductor - Enhanced Category 5e Nonbonded-Pair Cable



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1-800-BELDEN1

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1-800-Belden1

**Description:**

24 AWG solid bare copper conductors, non-plenum, Polyolefin insulation, twisted pairs, rip cord, PVC jacket.

Usage (Overall)**Suitable Applications:**

Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG
 ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video,
 AES/EBU, Digital Video, RS-422

Physical Characteristics (Overall)**Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material
4	24	Solid	BC - Bare Copper

Insulation**Insulation Material:**

Insulation Material
PO - Polyolefin

Outer Shield**Outer Shield Material:**

Outer Shield Material
Unshielded

Outer Jacket**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord:

Yes

Overall Cable**Overall Nominal Diameter:**

0.200 in.

Pair**Pair Color Code Chart:**

Number	Color
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Mechanical Characteristics (Overall)**Operating Temperature Range:**

-20°C To +80°C

Bulk Cable Weight:

21 lbs/1000 ft.

Max. Recommended Pulling Tension:

35 lbs.

Min. Bend Radius (Install)/Minor Axis:

0.500 in.

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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
NEC Articles:	800
CEC/C(UL) Specification:	CMR
Other Standards:	11801 Category 5
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Telecommunications Standards:	ANSI/TIA/EIA-568-B.2 Category 5e
Other Specification:	NEMA WC-63.1 Category 5e, UL Verified to Category 5e

Flame Test

UL Flame Test:	UL1666 Riser, UL1685 FT4/IEEE 1202 Vertical Tray Flame Test
CSA Flame Test:	FT4

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Suitability - Burial:	No
Sunlight Resistance:	No
Oil Resistance:	No
Non-halogenated:	No

Plenum/Non-Plenum

Plenum Number:	1501A
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Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/ft)

15

Maximum Capacitance Unbalance (pF/100 m):	200
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Nominal Velocity of Propagation:

VP (%)

70

Maximum Delay:

Delay (ns/100 m)

542.000

Max. Delay Skew:

Delay Skew (ns/100 m)

25

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)

8.900

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Max. Operating Voltage - UL:

Voltage
300 V RMS

Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)
3

Electrical Characteristics-Premise (Overall)

Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min RL (dB)
1	2.000	70.3	68.3	68.3	66.3	20.000
4	4.000	61.3	59.3	57.3	55.3	23.000
8	5.700	56.8	54.8	51.1	49.1	24.500
10	6.400	55.3	53.3	48.9	46.9	25.000
16	8.100	52.2	50.2	44.1	42.1	25.000
20	9.100	50.8	48.8	41.7	39.7	25.000
25	10.200	49.3	47.3	39.1	37.1	24.300
31.25	11.400	47.9	45.9	36.5	34.5	23.600
62.5	16.400	43.4	41.4	27.0	25.0	21.500
100	21.000	40.3	38.3	19.3	17.3	20.100
155	26.600	37.4	35.4	10.9	8.9	18.800
200	30.500	35.8	33.8	5.3	3.3	18.000
250	34.400	34.3	32.3	0		17.300
300	38.000	33.1	31.1			16.800
350	41.400	32.1	30.1			16.300
400	44.600	31.3	29.3			15.900

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	105 ± 10	67.8	64.8
4	100 ± 15	100 ± 10	55.7	52.7
8	100 ± 15	100 ± 10	49.7	46.7
10	100 ± 15	100 ± 10	47.8	44.8
16	100 ± 15	100 ± 10	43.7	40.7
20	100 ± 15	100 ± 10	41.7	38.7
25	100 ± 15	100 ± 10	39.8	36.8
31.25	100 ± 15	100 ± 10	37.9	34.9
62.5	100 ± 15	100 ± 10	31.9	28.9
100	100 ± 15	100 ± 10	27.8	24.8
155	100 ± 22	100 ± 10	24.0	21.0
200	100 ± 22	100 ± 10	21.8	18.8
250	100 ± 22	100 ± 10	19.8	16.8
300		100 ± 10		
310		100 ± 10		
350		100 ± 10		

Notes (Overall)

Notes: Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e. Values above 250 MHz are for Engineering Information Only. US Patent 5424491.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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