

1224 Multi-Conductor - Enhanced Category 5e Nonbonded-Pair Cable



For more Information
please call

1-800-Belden1



General Description:

CAT5e+ (350MHz), 4-Pair, U/UTP-Unshielded, Zero Halogen, Premise Horizontal Cable, 24 AWG Solid Bare Copper Conductors, Polyolefin Insulation, Ripcord, LSZH 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

Total Number of Conductors: 8

Insulation

Insulation Material:

Insulation Material
PO - Polyolefin

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
LSZH - Low Smoke Zero Halogen

Outer Jacket Diameter:

Nom. Dia. (in.)
0.195

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 0.195 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: 25 lbs/1000 ft.

Max. Recommended Pulling Tension: 35 lbs.

Min. Bend Radius/Minor Axis: 0.750 in.

Min. Bend/Installation: 2 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

EU Directive 2011/65/EU (ROHS II): Yes

Other Standards: ISO/IEC 11801 ed 2.1 (2008) Class D

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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:	Category 5e - TIA 568.C.2
Other Specification:	Third Party Verified to Category 5e

Flame Test

IEC Flame Test:	60332-1
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Suitability

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

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	1213

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/ft)
15

Maximum Capacitance Unbalance (pF/100 m):	330
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Nominal Velocity of Propagation:

VP (%)
70

Maximum Delay:

Delay (ns/100 m)
510.000

Max. Delay Skew:

Delay Skew (ns/100 m)
25

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)
8.900

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)
0.772	1.800	72.0	71.0	70.2	69.2	
1	2.000	70.3	69.3	68.3	67.3	20.000
4	4.000	61.3	60.3	57.3	56.3	23.000
8	5.700	56.8	55.8	51.1	50.1	24.500
10	6.400	55.3	54.3	48.9	47.9	25.000
16	8.100	52.2	51.2	44.1	43.1	25.000
20	9.100	50.8	49.8	41.7	40.7	25.000
25	10.200	49.3	48.3	39.1	38.1	24.300
31.25	11.400	47.9	46.9	36.4	35.4	23.600

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62.5	16.400	43.4	42.4	27.0	26.0	21.500
100	21.000	40.3	39.3	19.3	18.3	20.100
155	26.600	37.4	36.4	10.9	9.9	18.800
200	30.500	35.8	34.8	5.3	4.3	18.000
250	34.400	34.3	33.3	-0.1	-1.1	17.300
300	38.000	33.1	32.1			16.800
350	41.400	32.1	31.1			16.300
400	44.600	31.3	30.3			15.900
450	47.700	30.5	29.5			12.800

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ACRF (dB)	Min. PSACRF (dB)
1	100 ± 15	100 ± 15	67.8	65.8
4	100 ± 15	100 ± 15	55.8	53.8
8	100 ± 15	100 ± 15	49.7	47.7
10	100 ± 15	100 ± 15	47.8	45.8
16	100 ± 15	100 ± 15	43.7	41.7
20	100 ± 15	100 ± 15	41.8	39.8
25	100 ± 15	100 ± 15	39.8	37.8
31.25	100 ± 15	100 ± 15	37.9	35.9
62.5	100 ± 15	100 ± 15	31.9	29.9
100	100 ± 15	100 ± 15	27.8	25.8
155	100 ± 22	100 ± 15	24.0	22.0
200	100 ± 22	100 ± 15	21.8	19.8
250	100 ± 32	100 ± 15	19.8	17.8
300	100 ± 32	100 ± 15	18.3	16.3
350	100 ± 32	100 ± 15	16.9	14.9
400	100 ± 32	100 ± 15	15.8	13.8
450	100 ± 32	100 ± 15	14.7	12.7

Notes (Overall)

Notes: Jacket sequentially printed with dual footage and meter markings. Third party verified to ANSI/TIA-568-C.2, Category 5e. Values above 250 MHz are for Engineering Information Only.

Reference (Overall)

Previous Part Number: 24570157

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1224 007U1000	1,000 FT	22.000 LB	VIOLET		CAT5E+ 4PR U/UTP LSZH BOX

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