

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



For more Information
please call

1-800-Belden1



Description:

24 AWG solid bare copper conductors, polyolefin insulation, twisted pairs, rip cord, 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

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 Ripcord:

Yes

Overall Cabling

Overall Nominal Diameter:

4.902 mm

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:

37.205 Kg/Km

Max. Recommended Pulling Tension:

155.687 N

Min. Bend Radius (Install)/Minor Axis:

12.700 mm

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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

Other Standards:	11801 Category 5e
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.B.2
Other Specification:	NEMA WC-63.1 Category 5e, UL Verified to Category 5e

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/m)

49.215

Maximum Capacitance Unbalance (pF/100 m): 330

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 (%)

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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	70	72.2	68.2	
1	2.000	70.3	68.3	70.3	66.3	20.000
4	4.000	61.3	59.3	59.3	55.3	23.000
8	5.700	56.8	54.8	53.1	49.1	24.500
10	6.400	55.3	53.3	50.9	46.9	25.000
16	8.100	52.2	50.2	46.1	42.1	25.000
20	9.100	50.8	48.8	43.7	39.7	25.000
25	10.200	49.3	47.3	41.1	37.1	24.300
31.25	11.400	47.9	45.9	38.5	34.5	23.600
62.5	16.400	43.4	41.4	29.0	25.0	21.500
100	21.000	40.3	38.3	21.3	17.3	20.100
155	26.600	37.4	35.4	12.8	8.9	18.800
200	30.500	35.8	33.8	7.3	3.3	18.000
250	34.400	34.3	32.3	1.9		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	100 ± 15	67.8	64.8
4	100 ± 15	100 ± 15	55.8	52.8
8	100 ± 15	100 ± 15	49.7	46.7
10	100 ± 15	100 ± 15	47.8	44.8
16	100 ± 15	100 ± 15	43.7	40.7
20	100 ± 15	100 ± 15	41.8	38.8
25	100 ± 15	100 ± 15	39.8	36.8
31.25	100 ± 15	100 ± 15	37.9	34.9
62.5	100 ± 15	100 ± 15	31.9	28.9
100	100 ± 15	100 ± 15	27.8	24.8
155	100 ± 22	100 ± 15	24.0	21.0
200	100 ± 22	100 ± 15	21.8	18.8
250		100 ± 15	19.8	16.8
300		100 ± 15		
310		100 ± 15		
350		100 ± 15		

Notes (Overall)

Notes: Jacket sequentially printed with dual footage and meter markings. Third party verified to TIA/EIA-568-B.2, Category 5e. Values above 250 MHz are for Engineering Information Only. US Patent 5424491.

Reference (Overall)

Previous Part Number: 24570157

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1224 007U1000	305 MT	0.000 FT	VIOLET		4PR24 LSOH (24570157)

Revision Number: 0 Revision Date: 04-30-2009

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