Detailed Specifications & Technical Data



2424 Multi-Conductor - Enhanced Category 6 Nonbonded-Pair Cables

For more Information please call



General Description:

1-800-Belden1



CAT6+ (350MHz), 4-Pair, U/UTP-Unshielded, Zero Halogen, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductors, Polyolefin Insulation, Patented Tape Separator, Ripcord, LSZH Jacket. **Usage (Overall)** Suitable Applications: Premise Horizontal Cable, POE, POE+, 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 23 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. (mm) 5.588 Outer Jacket Ripcord: Yes **Overall Cable Overall Cabling Separator Material:** Patented Dielectric Tape **Overall Nominal Diameter:** 5.588 mm Pair Pair Color Code Chart: Number Color White/Blue Stripe and Blue 1 2 White/Orange Stripe and Orange 3 White/Green Stripe and Green 4 White/Brown Stripe and Brown **Mechanical Characteristics (Overall) Operating Temperature Range:** -20°C To +75°C

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METRIC MEASUREMENT VERSION

2424 Multi-Conductor - Enhanced Category 6 Nonbonded-Pair Cables

Bulk Cable Weight:	47.622 Kg/Km
Max. Recommended Pulling Tension:	177.928 N
Min. Bend Radius/Minor Axis:	19.050 mm
Min. Bend/Installation:	57.150 mm
pplicable Specifications and Agency Co	ompliance (Overall)
Applicable Specifications and Agency Co	
EU Directive 2011/65/EU (ROHS II):	Yes
Other Standards:	60754-2, 61034
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 6 - TIA 568.C.2
Applicable Patents: Country www.belden.com/p	
Flame Test IEC Flame Test:	60332-1
Suitability	
Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Sunlight Resistance:	No
Non-halogenated:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	No
Plenum Number:	2413
lectrical Characteristics (Overall)	
Iom. Mutual Capacitance:	
Capacitance (pF/m) 55.777	
Maximum Capacitance Unbalance (pF/100 m):	330
Iominal Velocity of Propagation: VP (%)	
70	
<i>I</i> aximum Delay:	
Delay (ns/100 m) 537 @ 100MHz	
Max. Delay Skew: Delay Skew (ns/100 m) 35.000	

Maximum Conductor DC Resistance:



METRIC MEASUREMENT VERSION

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DCR @ 20°C (Ohm/100 m) 7.800

7.000

Max. Operating Voltage - UL:

Voltage

300 V RMS

Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)

3.000

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	77.0	77.0	75.2	75.2	
1	2.000	75.3	75.3	73.3	73.3	20.000
4	3.700	66.3	66.3	62.6	62.6	23.000
8	5.200	61.8	61.8	56.6	56.6	24.500
10	5.800	60.3	60.3	54.5	54.5	25.000
16	7.400	57.2	57.2	49.9	49.9	25.000
20	8.300	55.8	55.8	47.5	47.5	25.000
25	9.300	54.3	54.3	45.1	45.1	24.300
31.25	10.400	52.9	52.9	42.5	42.5	23.600
62.5	15.000	48.4	48.4	33.4	33.4	21.500
100	19.300	45.3	45.3	26.0	26.0	20.800
155	24.600	42.4	42.4	17.9	17.9	19.500
200	28.300	40.8	40.8	12.5	12.5	18.700
250	32.100	39.3	39.3	7.2	7.2	18.000
300	35.600	38.1	36.1	0.5	0.5	17.500
350	38.900	37.1	35.1	-1.7	-3.7	17.000
400	42.000	36.3	34.3	-5.7	-7.7	16.600
450	45.000	35.5	33.5	-9.5	-11.5	16.200
500	47.900	34.8	32.8	-13.0	-15.0	15.900
550	50.600	34.2	32.2	-16.4	-18.4	15.600

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ACRF (dB)	Min. PSACRF (dB)
0.772		102 ± 15	73.0	70.0
1	100 ± 15	102 ± 15	70.8	67.8
4	100 ± 15	100 ± 15	58.8	55.8
8	100 ± 15	100 ± 15	52.7	49.7
10	100 ± 15	100 ± 15	50.8	47.8
16	100 ± 15	100 ± 15	46.7	43.7
20	100 ± 15	100 ± 15	44.8	41.8
25	100 ± 15	100 ± 15	42.8	39.8
31.25	100 ± 15	100 ± 15	40.9	37.9
62.5	100 ± 15	100 ± 15	34.9	31.9
100	100 ± 15	100 ± 15	30.8	27.8
155	100 ± 22	100 ± 15	27.0	24.0
200	100 ± 22	100 ± 15	24.8	21.8
250	100 ± 32	100 ± 15	22.8	19.8
300	100 ± 32	100 ± 15	21.3	18.3
350	100 ± 32	100 ± 15	19.9	16.9
400	100 ± 32	100 ± 15	18.8	15.8
450	100 ± 32	100 ± 15	17.7	14.7
500	100 ± 32	100 ± 15	16.8	13.8
550	100 ± 32	100 ± 15	16.0	13.0

Notes (Overall)

Notes: Jacket sequentially printed with dual footage and meter markings. Third party verified to ANSI/TIA-568-C.2, Category 6. Values above 350 MHz are for Engineering Informaton Only.



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CAT6+ 4PR U/UTP LSZH REEL

Reference (Ov	verall)					
Previous Part Number:			24568005			
Put Ups and C	olors:					
Item #	Putup	Ship Weight	Color	Notes	Item Desc	
2424 0061000	1,000 FT	25.000 LB	BLUE, LIGHT		CAT6+ 4PR U/UTP LSZH REEL	
2424 0071000	1 000 FT	25 000 L B	VIOLET		CAT6+ 4PR U/UTP I SZH REFI	

Revision Number: 9 Revision Date: 03-13-2017

1,000 FT

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WHITE

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25.000 LB

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