



1872A Paired - Enhanced Category 6 Bonded-Pair Cable

	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p> <p>Related Documents : No. 8 for DataTwist Cables (Modified Western Electric).pdf</p>
--	---

Description:

23 AWG bonded-pairs, solid bare copper conductor, non-plenum, polyolefin insulation, rip cord, see color code chart (below), PVC jacket (blue, red, yellow, orange, green, gold, purple, white, black or gray..

SUITABLE APPLICATIONS:

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

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	4
Total Number of Conductors	8
AWG	23
Stranding	Solid
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	PO - Polyolefin
---------------------	-----------------

Pair Color Code Chart :

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

OUTER SHIELD:

Outer Shield Material	Unshielded
-----------------------	------------

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
Outer Jacket Ripcord	Yes

OVERALL NOMINAL DIAMETER:



1872A Paired - Enhanced Category 6 Bonded-Pair Cable

Overall Nominal Diameter	.365 x .165 in.
--------------------------	-----------------

MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +80°C
Bulk Cable Weight	29 lbs/1000 ft.
Max. Recommended Pulling Tension	45 lbs.
Min. Bend Radius (Install)	1 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMR, UL444
CEC/C(UL) Specification	CMR
IEC Specification	11801 Category 5
EU CE Mark (Y/N)	No
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
TIA/EIA Specification	568-B.2-1 Category 6
Other Specification	UL verified to Category 6

FLAME TEST:

UL Flame Test	UL1666 Riser
CSA Flame Test	FT4

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
Plenum Number	1874A

ELECTRICAL CHARACTERISTICS:

Nom. Mutual Capacitance @ 1 KHz	15.0 pF/ft
Maximum Capacitance Unbalance (pF/100 m)	49.2 pF/100 m
Nominal Velocity of Propagation	70 %
Maximum Delay (ns/100 m)	510 @ 100MHz ns/100 m
Maximum Delay Skew (ns/100m)	25 ns/100 m
Maximum Conductor DC Resistance @ 20 Deg. C	9 Ohms/100 m
Maximum DCR Unbalance @ 20 Deg. C	3 %
Max. Operating Voltage - UL	300 V RMS

ELECTRICAL CHARACTERISTICS - PREMISE:

Premise Cable Electricals Table 1 :	
-------------------------------------	--



1872A Paired - Enhanced Category 6 Bonded-Pair Cable

Frequency (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min. Return Loss (dB)	Min. Structural Return Loss (dB)
1	1.9	74.3	72.3	70	70	20.0	
4	3.7	65.3	63.3	59	59	23.0	
8	5.3	60.3	58.8	53	53	24.5	
10	5.9	59.3	57.3	51	51	25.0	
16	7.5	56.3	54.3	46	46	25.0	
20	8.4	54.8	52.8	44	44	25.0	
25	9.5	53.4	51.4	42	42	24.3	
31.25	10.6	51.9	49.9	39	39	23.6	
62.5	15.4	47.4	45.4	30	30	21.5	
100	19.8	44.3	42.3	25	25	21.0	
155	25.1	41.5	39.5	14	14	21.0	
200	29.0	39.8	37.8	10	10	21.0	
250	32.8	38.3	36.3	3	3	18.0	
300	35.2	37.2	34.2	0	0	18.0	
310	37.1	36.9	34.9			18.0	
350	39.8	36.2	34.2			17.0	
400**	43.0	35.3	33.3			14.0	
500**	49.0	33.8	31.8			14.0	

Premise Cable Electricals Table 2 :

Frequency (MHz)	Input (Unfitted) Impedance (Ohms)	Fitted Impedance (Ohms)	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 12	100 ± 15	67.8	64.8
4	100 ± 12	100 ± 15	55.7	52.8
8	100 ± 12	100 ± 15	49.7	46.7
10	100 ± 12	100 ± 15	47.8	44.8
16	100 ± 12	100 ± 8	43.7	40.7
20	100 ± 12	100 ± 8	41.7	38.7
25	100 ± 15	100 ± 8	39.8	36.8
31.25	100 ± 15	100 ± 8	37.9	34.9
62.5	100 ± 15	100 ± 8	31.8	28.9
100	100 ± 15	100 ± 8	27.8	24.8
155	100 ± 15	100 ± 8	23.9	20.9
200	100 ± 15	100 ± 8	21.7	18.8
250	100 ± 20	100 ± 8	19.8	16.8
300	100 ± 20	100 ± 8	18.2	15.2
310	100 ± 20	100 ± 8	17.9	14.9
350	100 ± 22	100 ± 8	16.9	13.9
400**	100 ± 32	100 ± 8	15.7	12.7
500**	100 ± 32	100 ± 8	13.8	10.8

NOTES:



1872A Paired - Enhanced Category 6 Bonded-Pair Cable

Notes

Belden IBDN. Jacket sequentially marked at 2 ft. intervals. US Patent #'s 5, 606, 151; 5, 734, 126; 5, 821, 467 **Values above 350 MHz are information only. Third party verified to TIA/EIA-568-B.2-1, Category 6.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1872A 0021000	4 PR #23 PP PVC	1000	37	RED	C
1872A 002A1000	4 PR #23 PP PVC	A1000	37	RED	
1872A 0031000	4 PR #23 PP PVC	1000	37	ORANGE	C
1872A 003A1000	4 PR #23 PP PVC	A1000	37	ORANGE	
1872A 0041000	4 PR #23 PP PVC	1000	37	YELLOW	C
1872A 004A1000	4 PR #23 PP PVC	A1000	37	YELLOW	
1872A 0051000	4 PR #23 PP PVC	1000	37	GREEN, DARK	C
1872A 005A1000	4 PR #23 PP PVC	A1000	37	GREEN, DARK	
1872A 0061000	4 PR #23 PP PVC	1000	37	BLUE, LIGHT	C
1872A 006A1000	4 PR #23 PP PVC	A1000	37	BLUE, LIGHT	
1872A 0071000	4 PR #23 PP PVC	1000	37	VIOLET	C
1872A 007A1000	4 PR #23 PP PVC	A1000	37	VIOLET	
1872A 0091000	4 PR #23 PP PVC	1000	37	WHITE	C
1872A 009A1000	4 PR #23 PP PVC	A1000	37	WHITE	
1872A 0101000	4 PR #23 PP PVC	1000	37	BLACK	C
1872A F6H1000	4 PR #23 PP PVC	1000	37	GRAY, DARK PEARL	C
1872A F6HA1000	4 PR #23 PP PVC	A1000	37	GRAY, DARK PEARL	
1872A X6G1000	4 PR #23 PP PVC	1000	37	GOLD X6G	C
1872A X6GA1000	4 PR #23 PP PVC	A1000	37	GOLD X6G	

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 04-11-2006



1872A Paired - Enhanced Category 6 Bonded-Pair Cable

© 2006 Belden Wire & Cable Company
All Rights Reserved.

Although Belden Electronics Division ("Belden") makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden CDT Electronics Division believes this product to be in compliance with the following environmental regulations: California Proposition 65 Consent Judgment For Wire & Cable Mfgs. (San Francisco Superior Court Nos. 312962 And 320342); EU RoHS (Directive 2002/95/EC, 27-Jan-2003); Material manufactured prior to the compliance date may still be in stock at Belden facilities and in our Distributor's inventory. EU ELV (Directive 2000/53/EC, 18-Sept-2000); EU WEEE (Directive 2002/96/EC, 27-Jan-2003); And EU BFR (Directive 2003/11/EC, 6-Feb-2003). The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information and belief at the date of its publication. The information provided in the Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.