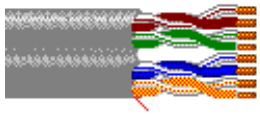
Detailed Specifications & Technical Data

BELDENCable

1872A Paired - Enhanced Category 6 Bonded-Pair Cable



For more information please call

1-800-Belden1

See Put-ups and Colors

Related Documents : No. 8 for DataTwist Cables (Modified Western Electric).pdf

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:

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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 :

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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:

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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

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