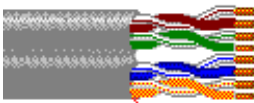


1874A Paired - Enhanced Category 6 Bonded-Pair Cable

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

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

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
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PHYSICAL CHARACTERISTICS:

CONDUCTOR:

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

INSULATION:

Insulation Material	FEP - Fluorinated Ethylene Propylene
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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
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OUTER JACKET:

Outer Jacket Material Trade Name	Flamarrest®
Outer Jacket Material	LS PVC - Low Smoke Polyvinyl Chloride
Outer Jacket Ripcord	Yes

OVERALL NOMINAL DIAMETER:

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Overall Nominal Diameter	.365 x .165 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +80°C
Bulk Cable Weight	31 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	CMP, UL444
CEC/C(UL) Specification	CMP
IEC Specification	11801 Cat 5
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	07/01/2006
TIA/EIA Specification	568-B.2-1 Category 6
Other Specification	UL verified to Category 6

FLAME TEST:

UL Flame Test	NFPA 262
CSA Flame Test	FT6

PLENUM/NON-PLENUM:

Plenum (Y/N)	Y
Non-Plenum Number	1872A

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	72 %
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:

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.

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PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1874A 0021000	4 PR #23 FEP FLRST	1000	37	RED	C
1874A 002A1000	4 PR #23 FEP FLRST	A1000	38	RED	
1874A 0031000	4 PR #23 FEP FLRST	1000	37	ORANGE	
1874A 003A1000	4 PR #23 FEP FLRST	A1000	38	ORANGE	
1874A 0041000	4 PR #23 FEP FLRST	1000	37	YELLOW	C
1874A 004A1000	4 PR #23 FEP FLRST	A1000	38	YELLOW	
1874A 0051000	4 PR #23 FEP FLRST	1000	37	GREEN, DARK	C
1874A 005A1000	4 PR #23 FEP FLRST	A1000	38	GREEN, DARK	
1874A 0071000	4 PR #23 FEP FLRST	1000	37	VIOLET	C
1874A 007A1000	4 PR #23 FEP FLRST	A1000	38	VIOLET	
1874A 0091000	4 PR #23 FEP FLRST	1000	37	WHITE	C
1874A 009A1000	4 PR #23 FEP FLRST	A1000	38	WHITE	
1874A 0101000	4 PR #23 FEP FLRST	1000	37	BLACK	C
1874A 8771000	4 PR #23 FEP FLRST	1000	37	NATURAL	C
1874A 877A1000	4 PR #23 FEP FLRST	A1000	38	NATURAL	
1874A D15-SL	4 PR #23 FEP FLRST REEL PUTUP	-SL		BLUE	
1874A D15-SLA	4 PR #23 FEP FLRST A-PUTUP	-SLA		BLUE	
1874A D151000	4 PR #23 FEP FLRST	1000	37	BLUE	C
1874A D15A1000	4 PR #23 FEP FLRST	A1000	38	BLUE	
1874A F6H1000	4 PR #23 FEP FLRST	1000	37	GRAY, DARK PEARL	C
1874A F6HA1000	4 PR #23 FEP FLRST	A1000	38	GRAY, DARK PEARL	

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 05-05-2006

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