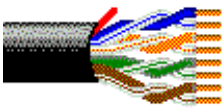


1700A Paired - Enhanced Category 5e Bonded-Pair Cable

 	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:

24 AWG bonded-pairs solid bare copper conductors, non-plenum, Polyolefin insulation, rip cord, see color code chart (below), PVC jacket (red, orange, white, black, yellow, green, blue, purple, light gray 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 US Patent #'s 5, 606, 151; 5, 734, 126
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PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	4
Total Number of Conductors	8
AWG	24
Stranding	Solid
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	PO - Polyolefin
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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	PVC - Polyvinyl Chloride
Outer Jacket Ripcord	Yes

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	0.200 in.
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1700A Paired - Enhanced Category 5e Bonded-Pair Cable

MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +80°C
Bulk Cable Weight	29 lbs/1000 ft.
Max. Recommended Pulling Tension	40 lbs.
Min. Bend Radius (Install)	0.25 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CM, UL444
CEC/C(UL) Specification	CM
IEC Specification	11801 Category 5
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
TIA/EIA Specification	568-B.2 Category 5e
Other Specification	NEMA WC-63.1 Category 5e, UL Verified to Category 5e

FLAME TEST:

UL Flame Test	UL1685 UL Loading
CSA Flame Test	FT1

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
Plenum Number	1701A

ELECTRICAL CHARACTERISTICS:

Nom. Mutual Capacitance @ 1 KHz	15 pF/ft
Maximum Capacitance Unbalance (pF/100 m)	66 pF/100 m
Nominal Velocity of Propagation	70 %
Maximum Delay (ns/100 m)	510 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 :

1700A Paired - Enhanced Category 5e 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	2.0	65.3	65.3	63.3	63.3	20.0	
4	4.0	56.3	56.3	52.3	52.3	23.0	
8	5.7	51.8	51.8	46.1	46.1	24.5	
10	6.4	50.3	50.3	43.9	43.9	25.0	
16	8.1	47.3	47.3	39.1	39.1	25.0	
20	9.2	45.8	45.8	35.2	35.2	25.0	
25	10.3	44.3	44.3	34.1	34.1	24.3	
31.25	11.6	42.9	42.9	31.3	31.3	23.6	
62.5	16.8	38.4	38.4	21.6	21.6	21.5	
100	21.7	35.3	35.3	17.1	17.1	20.1	
155	27.7	32.5	32.5	4.7	4.7	19.0	
200	32.0	30.8	30.8	3.0	3.0	19.0	
250	36.4	29.3	29.3	>0	>0	18.0	
300	40.5	28.2	28.2			18.0	
310	41.3	27.9	27.9			18.0	
350	44.3	27.2	27.2			17.0	

Premise Cable Electricals Table 2 :

Frequency (MHz)	Input (Unfitted) Impedance (Ohms)	Fitted Impedance (Ohms)	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 12	105 ± 10	63.8	60.8
4	100 ± 12	100 ± 10	51.7	48.8
8	100 ± 12	100 ± 10	45.7	42.7
10	100 ± 12	100 ± 10	43.8	40.8
16	100 ± 12	100 ± 10	39.7	36.7
20	100 ± 12	100 ± 10	37.7	34.7
25	100 ± 15	100 ± 10	35.8	32.8
31.25	100 ± 15	100 ± 10	33.9	30.9
62.5	100 ± 15	100 ± 10	27.8	24.9
100	100 ± 15	100 ± 10	23.8	20.8
155	100 ± 18	100 ± 10	19.9	16.9
200	100 ± 18	100 ± 10	17.7	14.7
250	100 ± 20	100 ± 10	15.8	12.8
300	100 ± 20	100 ± 10	14.2	11.2
310	100 ± 20	100 ± 10	13.9	10.9
350	100 ± 22	100 ± 10	12.9	9.9

NOTES:

Notes

Belden IBDN. Jacket sequentially marked at 2 ft. intervals. U.S. Patents 5, 606, 151 and 5, 734, 126. Third party verified to TIA/EIA-568-B.2, Category 5e

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
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1700A Paired - Enhanced Category 5e Bonded-Pair Cable

1700A 0021000	4 PR #24 DATATWIST FR PVC	1000	22	RED	C
1700A 0023000	4 PR #24 DATATWIST FR PVC	3000	63	RED	C
1700A 002U1000	4 PR #24 DATATWIST FR PVC	U1000	21	RED	
1700A 0031000	4 PR #24 DATATWIST FR PVC	1000	22	ORANGE	C
1700A 003U1000	4 PR #24 DATATWIST FR PVC	U1000	21	ORANGE	
1700A 0041000	4 PR #24 DATATWIST FR PVC	1000	22	YELLOW	C
1700A 004U1000	4 PR #24 DATATWIST FR PVC	U1000	21	YELLOW	
1700A 0051000	4 PR #24 DATATWIST FR PVC	1000	22	GREEN, DARK	C
1700A 005U1000	4 PR #24 DATATWIST FR PVC	U1000	21	GREEN, DARK	
1700A 0061000	4 PR #24 DATATWIST FR PVC	1000	22	BLUE, LIGHT	C
1700A 0061640	4 PR #24 DATATWIST FR PVC	1640	36.08	BLUE, LIGHT	C
1700A 0063000	4 PR #24 DATATWIST FR PVC	3000	63	BLUE, LIGHT	C
1700A 006U1000	4 PR #24 DATATWIST FR PVC	U1000	21	BLUE, LIGHT	
1700A 008U1000	4 PR #24 DATATWIST FR PVC	U1000	21	GRAY	
1700A 0091000	4 PR #24 DATATWIST FR PVC	1000	22	WHITE	C
1700A 0093000	4 PR #24 DATATWIST FR PVC	3000	63	WHITE	C
1700A 009U1000	4 PR #24 DATATWIST FR PVC	U1000	21	WHITE	C
1700A 0101000	4 PR #24 DATATWIST FR PVC	1000	22	BLACK	C
1700A 010U1000	4 PR #24 DATATWIST FR PVC	U1000	21	BLACK	

1700A Paired - Enhanced Category 5e Bonded-Pair Cable

1700A B021000	4 PR #24 DATATWIST FR PVC	1000	22	PURPLE	C
1700A B02U1000	4 PR #24 DATATWIST FR PVC	U1000	21	PURPLE	
1700A F2V1000	4 PR #24 DATATWIST FR PVC	1000	22	GRAY, DEC	C
1700A F2V1640	4 PR #24 DATATWIST FR PVC	1640	36.08	GRAY, DEC	C
1700A F2V3000	4 PR #24 DATATWIST FR PVC	3000	63	GRAY, DEC	C
1700A F2V3280	4 PR #24 DATATWIST FR PVC	3280	72.16	GRAY, DEC	C
1700A F2VU1000	4 PR #24 DATATWIST FR PVC	U1000	21	GRAY, DEC	

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 04-12-2006

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