

## 1875GB Paired - Enhanced Category 6 Bonded-Pair Cables

 	<p>For more information please call <b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p> <p><b>Related Documents :</b> <b>MediaTwist Patch Cables.pdf</b></p>
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### Description:

24 AWG bonded-pairs, stranded (7x32) tinned copper conductor, polyolefin insulation, PVC jacket.

### SUITABLE APPLICATIONS:

Suitable Applications: Premise Patch 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	24
Stranding	7x32
Conductor Material	TC - Tinned Copper

#### INSULATION:

Insulation Material	PO - Polyolefin
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#### Pair Color Code Chart :

Number	Color	Number	Color
For T568-B Wiring	White/Brown Stripe & Brown		White/Green Stripe & Green
	White/Blue Stripe & Blue		White/Orange Stripe & Orange

#### OUTER SHIELD:

Outer Shield Material	Unshielded
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#### OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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#### OVERALL NOMINAL DIAMETER:

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

Operating Temperature Range	-20°C To +75°C
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Bulk Cable Weight	29 lbs/1000 ft.
Max. Recommended Pulling Tension	40 lbs.
Min. Bend Radius (Install)	0.1 in.

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

NEC/(UL) Specification	CMR, UL444
CEC/C(UL) Specification	CMR
IEC Specification	11801 Category 5 Patch
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.2-1 Category 6 Patch, B.2 Category 5e Horizontal
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
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**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	2.0	74.3	72.3	70.3	70.3	20.0	
4	4.1	65.3	63.3	59.2	59.2	23.0	
8	5.8	60.3	58.8	53.0	53.0	24.5	
10	6.5	59.3	57.3	51.0	51.0	25.0	
16	8.2	56.3	54.3	46.0	46.0	25.0	
20	9.3	54.8	52.8	43.5	43.5	25.0	
25	10.4	53.4	51.4	41.0	41.0	24.3	
31.25	11.7	51.9	49.9	38.2	38.2	23.6	
62.5	17.0	47.4	45.4	28.4	28.4	21.5	
100	22.0	44.3	42.3	25	25	21.0	
155	30.2	41.5	39.5	14	14	21.0	
200	34.8	39.8	37.8	10	10	21.0	
250	39.6	38.3	36.3	3	3	18.0	
300	46.7	37.2	34.2	0	0	18.0	
310	47.6	36.9	34.9			18.0	
350	51.1	36.2	34.2			17.0	
400	55.3	35.3	33.3			14.0	
500	63.3	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

Jacket sequentially marked at 2 ft. intervals. US Patent #'s 5, 606, 151; 5, 734, 126; 5, 763, 823; 5, 821, 467 \*\*Values above 350 MHz are information only. Third party verified to TIA/EIA-568-B.2-1, Category 6 Patch

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Notes (Cont'd.)

RJ-45 Compatible

**PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1875GB 0041000	4 PR #24 PP PVC	1000	31	YELLOW	C
1875GB 004A1000	4 PR #24 PP PVC	A1000	32	YELLOW	
1875GB 0051000	4 PR #24 PP PVC	1000	31	GREEN, DARK	
1875GB 005A1000	4 PR #24 PP PVC	A1000	32	GREEN, DARK	
1875GB 0061000	4 PR #24 PP PVC	1000	31	BLUE, LIGHT	C
1875GB 006A1000	4 PR #24 PP PVC	A1000	32	BLUE, LIGHT	
1875GB 007A1000	4 PR #24 PP PVC	A1000	32	VIOLET	
1875GB 0091000	4 PR #24 PP PVC	1000	31	WHITE	
1875GB 009A1000	4 PR #24 PP PVC	A1000	32	WHITE	
1875GB 0101000	4 PR #24 PP PVC	1000	31	BLACK	C
1875GB F2V1000	4 PR #24 PP PVC	1000	31	GRAY, DEC	
1875GB F2VA1000	4 PR #24 PP PVC	A1000	32	GRAY, DEC	
1875GB F6H1000	4 PR #24 PP PVC	1000	31	GRAY, DARK PEARL	C
1875GB F6HA1000	4 PR #24 PP PVC	A1000	32	GRAY, DARK PEARL	J

C = CRATE REEL PUT-UP.

J = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 250'

Revision Number: 1

Revision Date: 04-11-2006

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