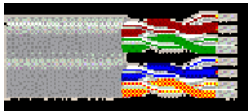


## 1875GB Multi-Conductor - Enhanced Category 6 Bonded-Pair Cables



For more Information  
please call

1-800-Belden1



### Description:

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

### Usage (Overall)

**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 (Overall)

#### Conductor

**AWG:**

# Pairs	AWG	Stranding	Conductor Material
4	24	7x32	TC - Tinned Copper

#### Insulation

**Insulation Material:**

Insulation Material
PO - Polyolefin

#### Outer Shield

**Outer Shield Material:**

Outer Shield Material
Unshielded

#### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cabling

**Overall Nominal Diameter:** 9.271 x 9.271 mm

#### Pair

**Pair Color Code Chart:**

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

### Mechanical Characteristics (Overall)

**Operating Temperature Range:** -20°C To +75°C

**Bulk Cable Weight:** 43.158 Kg/Km

**Max. Recommended Pulling Tension:** 177.928 N

**Min. Bend Radius (Install)/Minor Axis:** 2.540 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

**NEC/(UL) Specification:** CMR, UL444

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CEC/C(UL) Specification:	CMR
Other Standards:	11801 Category 5 Patch
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Telecommunications Standards:	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):	No
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## Electrical Characteristics (Overall)

### Nom. Mutual Capacitance:

Capacitance (pF/m)
49.215

### Nominal Velocity of Propagation:

VP (%)
70

Maximum Capacitance Unbalance (pF/100 m): 49.2

### Maximum Delay:

Delay (ns/100 m)
510 @ 100MHz

### Max. Delay Skew:

Delay Skew (ns/100 m)
25

### Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)
9

### Max. Operating Voltage - UL:

Voltage
300 V RMS

### Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)
3

## Electrical Characteristics-Premise (Overall)

### Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min RL (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

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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 Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	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 (Overall)

**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

**Notes (Cont'd.):**

RJ-45 Compatible

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1875GB F2V1000	305 MT	14.061 KG	GRAY, DEC		4 PR #24 PP PVC
1875GB F6H1000	305 MT	14.061 KG	GRAY, DARK PEARL	C	4 PR #24 PP PVC
1875GB 0041000	305 MT	14.061 KG	YELLOW	C	4 PR #24 PP PVC
1875GB 005A1000	305 MT	14.515 KG	GREEN, DARK		4 PR #24 PP PVC
1875GB 0051000	305 MT	14.061 KG	GREEN, DARK		4 PR #24 PP PVC
1875GB 006A1000	305 MT	14.515 KG	BLUE, LIGHT		4 PR #24 PP PVC
1875GB 0061000	305 MT	14.061 KG	BLUE, LIGHT	C	4 PR #24 PP PVC
1875GB 007A1000	305 MT	14.515 KG	VIOLET		4 PR #24 PP PVC
1875GB 0091000	305 MT	14.061 KG	WHITE		4 PR #24 PP PVC
1875GB 0101000	305 MT	14.061 KG	BLACK	C	4 PR #24 PP PVC

**Notes:**

C = CRATE REEL PUT-UP.

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## 1875GB Multi-Conductor - Enhanced Category 6 Bonded-Pair Cables

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