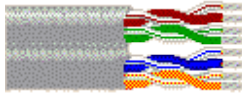


## 1875GB Multi-Conductor - Enhanced Category 6 Bonded-Pair Cables



### 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:** 0.365 x 0.165 in.

#### 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:** 29 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 40 lbs.

**Min. Bend Radius (Install)/Minor Axis:** 0.100 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

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

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

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/ft)
15.0

### 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

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

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	1,000 FT	31.000 LB	GRAY, DEC		4 PR #24 PP PVC
1875GB F6H1000	1,000 FT	31.000 LB	GRAY, DARK PEARL	C	4 PR #24 PP PVC
1875GB 0041000	1,000 FT	31.000 LB	YELLOW	C	4 PR #24 PP PVC
1875GB 005A1000	1,000 FT	32.000 LB	GREEN, DARK		4 PR #24 PP PVC
1875GB 0051000	1,000 FT	31.000 LB	GREEN, DARK		4 PR #24 PP PVC
1875GB 006A1000	1,000 FT	32.000 LB	BLUE, LIGHT		4 PR #24 PP PVC
1875GB 0061000	1,000 FT	31.000 LB	BLUE, LIGHT	C	4 PR #24 PP PVC
1875GB 007A1000	1,000 FT	32.000 LB	VIOLET		4 PR #24 PP PVC
1875GB 0091000	1,000 FT	31.000 LB	WHITE		4 PR #24 PP PVC
1875GB 0101000	1,000 FT	31.000 LB	BLACK	C	4 PR #24 PP PVC

**Notes:**

C = CRATE REEL PUT-UP.

# MediaTwist® and DataTwist® 6 UTP Patch Cables

TIA/EIA-568-B.2-1, Category 6

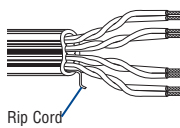
Enhanced Category 6 Bonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										

**Patch Cables • 24 AWG Bonded-Pairs Stranded (7x32) Tinned Copper Conductor • RJ-45 Compatible • See Color Code Chart (below)▲**

**Non-Plenum • Polyolefin Insulation • PVC Jacket (Yellow, Green, Blue, Purple, Light Gray, Gray, White or Black)**

Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	1000†	304.8	31.0	14.1	.365	9.27	9.0	3.0	49.2	1	1.9	72.3	70	64.8	100±12	20.0	
1875GB	CMR	4	A-1000††	A-304.8	32.0	14.5	x	x				4	3.7	63.3	59	52.8	100±12	23.0	
	CEC:												8	5.3	58.8	53	46.7	100±12	24.5
	CMR												10	5.9	57.3	51	44.8	100±12	25.0
													16	7.5	54.3	46	40.7	100±12	25.0
													25	9.5	51.4	42	36.8	100±15	24.3
													31.25	10.6	49.9	39	34.9	100±15	23.6
													62.5	15.4	45.4	30	28.9	100±15	21.5
													100	19.8	42.3	25	24.8	100±15	21.0
													155	25.1	39.5	14	20.9	100±15	21.0
													200	29.0	37.8	10	18.8	100±15	21.0
													250	32.8	36.3	3	16.8	100±20	18.0
											300	35.2	35.2	>0	15.2	100±20	18.0		
											350	39.8	34.2	—	13.9	100±22	17.0		
											400	43.0	—	—	—	100±32	14.0		
											500	49.0	—	—	—	100±32	14.0		

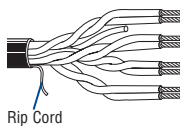


†1000 ft. put-up not available in Purple.  
 ††A-1000 ft. put-up not available in Black.  
 U.S. Patents 5,606,151; 5,734,126; 5,763,823 and 5,821,467  
 Third party verified to TIA/EIA-568-B.2-1, Category 6 Patch

**Patch Cables • 24 AWG Solid BC Conductors • Twisted Pairs • Central Slit-Film Filler • RJ-45 Compatible\* • See Color Code Chart (below)▲**

**Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black)**

Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	1000	304.8	24.0	10.9	.205	5.21	9.38	5.0	330	1	2.4	72.3	69.9	64.8	100±15	20.0	
7883A	CM	4										10	7.1	57.3	50.2	44.8	100±15	25.0	
	CEC:												20	10.2	52.8	42.6	38.8	100±15	25.0
	CM												31.25	12.8	49.9	37.1	34.9	100±15	23.6
													62.5	18.5	45.4	26.9	28.9	100±15	21.5
													100	23.8	42.3	18.5	24.8	100±15	20.1
													200	34.8	37.8	3.0	18.8	100±22	18.0
											250	39.4	36.3	—	16.8	100±32	17.3		



Jacket sequentially marked at 2 ft. intervals.  
 Third party verified to TIA/EIA-568-B.2-1, Category 6 Patch

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

**Color Codes: MediaTwist Patch (1875GB)**

Pair No.	Color Combination
1	White/Brown Stripe & Brown
2	White/Blue Stripe & Blue
3	White/Green Stripe & Green
4	White/Orange Stripe & Orange

▲Color rotation available for T568-A or T568-B wiring schemes.

**Color Codes: DataTwist 6 Patch (7883A)**

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

▲Color rotation available for T568-A or T568-B wiring schemes.