## **Detailed Specifications & Technical Data**



ENGLISH MEASUREMENT VERSION

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



For more Information please call

1-800-Belden1



### **General Description:**

-----

....

CAT6+ (350MHz), 4-Bonded-Pairs, U/UTP-Unshielded, Riser-CMR, Premise Patch Cable, 24 AWG Bonded 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, Bonded Strands **Total Number of Conductors:** 8 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 Outer Jacket Diameter: Nom. Dia. (in.) 0.365 0.165 Outer Jacket Ripcord: No **Overall Cable 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) -20°C To +75°C **Operating Temperature Range:** Bulk Cable Weight: 29 lbs/1000 ft. Max. Recommended Pulling Tension: 40 lbs. Min. Bend Radius/Minor Axis: 0.500 in. Min. Bend/Installation: 1.600 in Applicable Specifications and Agency Compliance (Overall) **Applicable Standards & Environmental Programs** NEC/(UL) Specification: CMR

-··-

# **Detailed Specifications & Technical Data**



### ENGLISH MEASUREMENT VERSION

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

CEC/C(UL) Specification:	CMR
	Yes
EU Directive 2011/65/EU (ROHS II):	
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:	Category 6 - TIA 568.C.2
Other Specification:	UL Verified to Category 6 Patch
Applicable Patents:	
Country www.belden.com/p	
Flame Test	
UL Flame Test:	UL1666 Vertical Riser
C(UL) Flame Test:	FT4
CSA Flame Test:	FT4
Plenum/Non-Plenum	
Plenum (Y/N):	No
Electrical Characteristics (Overall)	
Nom. Mutual Capacitance:	
Capacitance (pF/ft) 15.0	
Maximum Capacitance Unbalance (pF/100 m):	49.2
Nominal Velocity of Propagation:	
<b>VP (%)</b> 70	
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)	

### 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
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

## **Detailed Specifications & Technical Data**



### ENGLISH MEASUREMENT VERSION

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

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. Values above 350 MHz are information only. Third party verified to ANSI/TIA-568-C.2, Category 6 Patch 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		CAT6+ PATCH U/UTP CMR REEL
1875GB F6H1000	1,000 FT	31.000 LB	GRAY, DARK PEARL	С	CAT6+ PATCH U/UTP CMR REEL
1875GB 0041000	1,000 FT	31.000 LB	YELLOW	С	CAT6+ PATCH U/UTP CMR REEL
1875GB 005A1000	1,000 FT	32.000 LB	GREEN, DARK		CAT6+ PATCH U/UTP CMR RIB
1875GB 0051000	1,000 FT	31.000 LB	GREEN, DARK		CAT6+ PATCH U/UTP CMR REEL
1875GB 006A1000	1,000 FT	32.000 LB	BLUE, LIGHT		CAT6+ PATCH U/UTP CMR RIB
1875GB 0061000	1,000 FT	31.000 LB	BLUE, LIGHT	С	CAT6+ PATCH U/UTP CMR REEL
1875GB 007A1000	1,000 FT	32.000 LB	VIOLET		CAT6+ PATCH U/UTP CMR RIB
1875GB 0091000	1,000 FT	31.000 LB	WHITE		CAT6+ PATCH U/UTP CMR REEL
1875GB 0101000	1,000 FT	31.000 LB	BLACK	С	CAT6+ PATCH U/UTP CMR REEL

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 4 Revision Date: 02-28-2014

© 2014 Belden, Inc All Rights Reserved

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein. All sales of Belden products are subject to Belden's standard terms and conditions of sale. Belden believes this product to be in compliance with EU ROHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.