



Product: [1875GB](#)

CAT6+ Patch Bonded-Pair, 4pr, UTP, PVC Jkt, CMR

Product 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

Technical Specifications

Product Overview

Suitable Applications:	Premise Patch Cable Designed for Attenuation Stability in High Humidity Environments, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422. Noisy Environments, For T568-B Wiring
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
24	7x32	TC - Tinned Copper	4

Conductor Count:	8
Total Number of Pairs:	4

Insulation

Material	
PO - Polyolefin	
Bonded-Pair:	Yes

Color Chart

Number	Color
1	White/Brown Stripe & Brown
2	White/Blue Stripe & Blue
3	White/Green Stripe & Green
4	White/Orange Stripe & Orange

Outer Jacket

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.365 x 0.165 in	No

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. DCR Unbalance
90 Ohm/km	3 %

Capacitance

Max. Capacitance Unbalance	Nom. Mutual Capacitance
49.2 pF/100m	15 pF/ft

Delay

Frequency [MHz]	Max. Delay	Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]
100 MHz	537.6 ns/100m	25 ns/100m	70%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACR [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance
1 MHz	2.0 dB/100m	74.3 dB	72.3 dB	70.3 dB	70.3 dB	67.8 dB	64.8 dB	20.0 dB	100 ± 12 Ohm	100 ± 15 Ohm
4 MHz	4.1 dB/100m	65.3 dB	63.3 dB	59.2 dB	59.2 dB	55.7 dB	52.8 dB	23.0 dB	100 ± 12 Ohm	100 ± 15 Ohm
8 MHz	5.8 dB/100m	60.3 dB	58.8 dB	53.0 dB	53.0 dB	49.7 dB	46.7 dB	24.5 dB	100 ± 12 Ohm	100 ± 15 Ohm
10 MHz	6.5 dB/100m	59.3 dB	57.3 dB	51.0 dB	51.0 dB	47.8 dB	44.8 dB	25.0 dB	100 ± 12 Ohm	100 ± 15 Ohm
16 MHz	8.2 dB/100m	56.3 dB	54.3 dB	46.0 dB	46.0 dB	43.7 dB	40.7 dB	25.0 dB	100 ± 12 Ohm	100 ± 8 Ohm
20 MHz	9.3 dB/100m	54.8 dB	52.8 dB	43.5 dB	43.5 dB	41.7 dB	38.7 dB	25.0 dB	100 ± 12 Ohm	100 ± 8 Ohm
25 MHz	10.4 dB/100m	53.4 dB	51.4 dB	41.0 dB	42.0 dB	39.8 dB	36.8 dB	24.3 dB	100 ± 15 Ohm	100 ± 8 Ohm
31.25 MHz	11.7 dB/100m	51.9 dB	49.9 dB	38.2 dB	38.2 dB	37.9 dB	34.9 dB	23.6 dB	100 ± 15 Ohm	100 ± 8 Ohm
62.5 MHz	17.0 dB/100m	47.4 dB	45.4 dB	28.4 dB	28.4 dB	31.8 dB	28.9 dB	21.5 dB	100 ± 15 Ohm	100 ± 8 Ohm
100 MHz	22.0 dB/100m	44.3 dB	42.3 dB	25.0 dB	25.0 dB	27.8 dB	24.8 dB	21.0 dB	100 ± 15 Ohm	100 ± 8 Ohm
155 MHz	30.2 dB/100m	41.5 dB	39.5 dB	14.0 dB	14.0 dB	23.9 dB	20.9 dB	21.0 dB	100 ± 15 Ohm	100 ± 8 Ohm
200 MHz	34.8 dB/100m	39.8 dB	37.8 dB	10.0 dB	10.0 dB	21.7 dB	18.8 dB	21.0 dB	100 ± 15 Ohm	100 ± 8 Ohm
250 MHz	39.6 dB/100m	38.3 dB	36.3 dB	3.0 dB	3.0 dB	19.8 dB	16.8 dB	18.0 dB	100 ± 20 Ohm	100 ± 8 Ohm
300 MHz	46.7 dB/100m	37.2 dB	35.2 dB			18.2 dB	15.2 dB	18.0 dB	100 ± 20 Ohm	100 ± 8 Ohm
310 MHz	47.6 dB/100m	36.9 dB	34.9 dB			17.9 dB	14.9 dB	18.0 dB	100 ± 20 Ohm	100 ± 8 Ohm
350 MHz	51.1 dB/100m	36.2 dB	34.2 dB			16.9 dB	13.9 dB	17.0 dB	100 ± 22 Ohm	100 ± 8 Ohm
400 MHz	55.3 dB/100m	35.3 dB	33.3 dB			15.7 dB	12.7 dB	14.0 dB	100 ± 32 Ohm	100 ± 8 Ohm
500 MHz	63.3 dB/100m	33.8 dB	31.8 dB			13.8 dB	10.8 dB	14.0 dB	100 ± 32 Ohm	100 ± 8 Ohm

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

Installation Temperature Range:	0°C To +50°C
UL Temp Rating:	75°C
Storage Temperature Range:	-20°C To +75°C
Operating Temperature Range:	-20°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	28 lbs/1000ft
Max. Pull Tension:	40 lbs
Min. Bend Radius During Installation:	3.75 in
Min. Bend Radius/Minor Axis:	0.5 in

Standards

NEC/(UL) Compliance:	CMR
CEC/C(UL) Compliance:	CMR
ISO/IEC Compliance:	11801 ed 2.2 (2011) Class E Patch
CPR Euroclass:	Eca
Data Category:	Category 6
ANSI Compliance:	S-116-732-2013 Category 6 Patch, ANSI/NEMA WC-66 Category 6 Patch
TIA/EIA Compliance:	ANSI/TIA-568-C.2 Category 6 Patch
IEEE Compliance:	IEEE 802.3bt Type 1, Type 2, Type 3, Type 4
Third Party Performance Verification:	Category 6 Patch

Applicable Environmental and Other Programs

Environmental Space:	Riser
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes

EU Directive Compliance:	Yes
EU CE Mark:	Yes
EU REACH SVHC Compliance (yyyy-mm-dd):	2017-07-10
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	No
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Non-Halogenated:	No
Suitability - Oil Resistance:	No
Suitability - Outdoor:	No
Suitability - Sunlight Resistance:	No

Flammability, LS0H, Toxicity Testing

CSA/C(UL) Flammability:	FT4
UL Flammability:	UL 1666 Riser
IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
1875GB 0101000	Black	Reel	1,000 ft	612825125754
1875GB 0061000	Blue	Reel	1,000 ft	612825125723
1875GB 006A1000	Blue	Reel-in-Box	1,000 ft	612825125716
1875GB F2V1000	Gray	Reel	1,000 ft	612825125662
1875GB F6H1000	Gray	Reel	1,000 ft	612825125679
1875GB 0051000	Green	Reel	1,000 ft	612825125709
1875GB 005A1000	Green	Reel-in-Box	1,000 ft	612825125693
1875GB 007A1000	Purple	Reel-in-Box	1,000 ft	612825125730
1875GB 0091000	White	Reel	1,000 ft	612825125747
1875GB 0041000	Yellow	Reel	1,000 ft	612825125686

Footnote: C - CRATE REEL PUT-UP.

Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. Values above 350 MHz are information only. Print Includes Descending Footage Markings. Conductor strands are bonded together.
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History

Update and Revision:	Revision Number: 0.513 Revision Date: 04-29-2024
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