




Product: [1752A](#) 

CAT5e+ Patch Bonded-Pair, 4pr, UTP, PVC Jkt, CM

Product Description

CAT5e+ (350MHz), 4-Bonded-Pair, U/UTP-unshielded, CM, Premise Patch cable, 24 AWG Bonded stranded (7x32) tinned copper conductors, polyolefin insulation, PVC jacket, RJ-45 compatible

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
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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	
Polyolefin	
Bonded-Pair:	Yes

Color Chart

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

Outer Jacket Material

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.220 in	No

Electrical Characteristics

Conductor DCR

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

Capacitance

Max. Capacitance Unbalance	Nom.Mutual Capacitance
160 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 Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [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	2.4 dB/100m	65.3 dB	65.3 dB	63.8 dB	60.8 dB	20.0 dB	100 ± 12 Ohm	105 ± 10 Ohm
4 MHz	4.8 dB/100m	56.3 dB	56.3 dB	51.7 dB	48.7 dB	23.0 dB	100 ± 12 Ohm	100 ± 10 Ohm
8 MHz	6.8 dB/100m	51.8 dB	51.8 dB	45.7 dB	42.7 dB	24.5 dB	100 ± 12 Ohm	100 ± 10 Ohm
10 MHz	7.7 dB/100m	50.3 dB	50.3 dB	43.8 dB	40.8 dB	25.0 dB	100 ± 12 Ohm	100 ± 10 Ohm
16 MHz	9.8 dB/100m	47.3 dB	47.3 dB	39.7 dB	36.7 dB	25.0 dB	100 ± 12 Ohm	100 ± 10 Ohm
20 MHz	11.0 dB/100m	45.8 dB	45.8 dB	37.7 dB	34.7 dB	25.0 dB	100 ± 12 Ohm	100 ± 10 Ohm
25 MHz	12.4 dB/100m	44.3 dB	44.3 dB	35.8 dB	32.8 dB	19.0 dB	100 ± 15 Ohm	100 ± 10 Ohm
31.25 MHz	13.9 dB/100m	42.9 dB	42.9 dB	33.9 dB	30.9 dB	19.0 dB	100 ± 15 Ohm	100 ± 10 Ohm
62.5 MHz	20.1 dB/100m	38.4 dB	38.4 dB	27.8 dB	24.8 dB	19.0 dB	100 ± 15 Ohm	100 ± 10 Ohm
100 MHz	26.1 dB/100m	35.3 dB	35.3 dB	23.8 dB	20.8 dB	19.0 dB	100 ± 15 Ohm	100 ± 10 Ohm
155 MHz	33.3 dB/100m	32.5 dB	32.5 dB	19.9 dB	16.9 dB	19.0 dB	100 ± 18 Ohm	100 ± 10 Ohm
200 MHz	38.4 dB/100m	30.8 dB	30.8 dB	17.7 dB	14.7 dB	19.0 dB	100 ± 18 Ohm	100 ± 10 Ohm
250 MHz	43.7 dB/100m	29.3 dB	29.3 dB	15.8 dB	12.8 dB	18.0 dB	100 ± 20 Ohm	100 ± 10 Ohm
300 MHz	48.6 dB/100m	28.2 dB	28.2 dB	14.2 dB	11.2 dB	18.0 dB	100 ± 20 Ohm	100 ± 10 Ohm
310 MHz	49.5 dB/100m	27.9 dB	27.9 dB	13.9 dB	10.9 dB	18.0 dB	100 ± 20 Ohm	100 ± 10 Ohm
350 MHz	53.2 dB/100m	27.2 dB	27.2 dB	12.9 dB	9.9 dB	17.0 dB	100 ± 22 Ohm	100 ± 10 Ohm

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	21 lbs/1000ft
Max Recommended Pulling Tension:	40 lbs
Min Bend Radius During Installation:	2.2 in
Min Bend Radius/Minor Axis:	1.0 in

Standards

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
ISO/IEC Compliance:	11801 ed 2.2 (2011) Class D Patch
Data Category:	Category 5e
ANSI Compliance:	S-90-661-2012 Category 5e Patch, ANSI/NEMA WC-63.1 Category 5e Patch
Telecommunications Standards:	ANSI/TIA-568-C.2 Category 5e Patch
IEEE Specification:	IEEE 802.3bt Type 1, Type 2, Type 3
Third Party Performance Verification:	Category 5e Patch

Applicable Environmental and Other Programs

Environmental Space:	Indoor
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 II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	Yes
EU CE Mark:	Yes
EU REACH SVHC Compliance (yyyy-mm-dd):	2017-07-10

EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
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, LSOH, Toxicity Testing

UL Flammability:	UL 1685 (UL 1581) Vertical Tray
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
1752A 0101000	Black	Reel	1,000 ft	612825122210
1752A 010U1000	Black	UnReel	1,000 ft	612825122203
1752A 0061000	Blue	Reel	1,000 ft	612825122173
1752A 006U1000	Blue	UnReel	1,000 ft	612825122166
1752A F2V1000	Gray	Reel	1,000 ft	612825122074
1752A F2VU1000	Gray	UnReel	1,000 ft	612825122067
1752A 0051000	Green	Reel	1,000 ft	612825122159
1752A 005U1000	Green	UnReel	1,000 ft	612825122142
1752A 0031000	Orange	Reel	1,000 ft	612825122111
1752A 003U1000	Orange	UnReel	1,000 ft	612825122104
1752A 007U1000	Purple	UnReel	1,000 ft	612825122180
1752A 0021000	Red	Reel	1,000 ft	612825122098
1752A 002U1000	Red	UnReel	1,000 ft	612825122081
1752A 0041000	Yellow	Reel	1,000 ft	612825122135
1752A 004U1000	Yellow	UnReel	1,000 ft	612825122128

Footnote:	C - CRATE REEL PUT-UP.
Patent:	https://www.belden.com/resources/patents

Product Notes

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

Update and Revision:	Revision Number: 0.353 Revision Date: 04-28-2020
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