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

Physical Characteristics (Overall)

Conductor

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

Conductor Count:	8
Total Number of Pairs:	4

Insulation

Material
PO - 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
CA Prop 65 (CJ for Wire & Cable):	Yes
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

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

Plenum/Non-Plenum

Plenum (Y/N):	No

Part Number

Variants

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

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

Product Notes

Notes:	Print Includes Descending Footage Markings.

History

Update and Revision:	Revision Number: 0.340 Revision Date: 01-31-2020