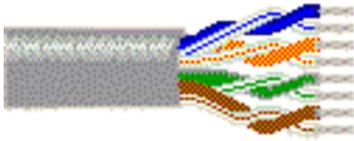


**Part Number: 1752A**



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

**Product Description**

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

**Technical Specifications**

**Product Overview**

Environmental Space:	Indoor
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

Total Number of Conductors:	8
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**Insulation**

Material
PO - Polyolefin

**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 Shield Material**

Material
N/A

**Outer Jacket Material**

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.220 in	No

**Electrical Characteristics**

**Capacitance**

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

Shielding:	UTP - Unshielded
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**Construction and Dimensions**

Total Number of Pairs:	4
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## Conductor DCR

Max. Conductor DCR	Max. DCR Unbalance
9 Ohm/100m	3 %

## Delay

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
300V RMS

## Applicable Standards & Environmental Programs

CEC/C(UL) Specification:	CM
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
Third Party Performance Verification:	Category 5e Patch
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
Telecommunications Standards:	ANSI/TIA-568-C.2 Category 5e Patch

Patent:	<a href="http://www.belden.com/p">http://www.belden.com/p</a>
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## Standards

ISO/IEC Compliance:	11801 ed 2.2 (2011) Class D Patch
ANSI/TIA Category:	Category 5e
ANSI Compliance:	S-90-661-2012 Category 5e Patch, ANSI/NEMA WC-63.1 Category 5e Patch
IEEE Specification:	POE per 802.3af & POE+ per 802.3at-2009
NEC/(UL) Specification:	CM

## Flame Test

UL Flammability:	UL 1685 (UL 1581) Vertical Tray
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## Safety

UL Voltage Rating:	300 V RMS
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## 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

## Mechanical Characteristics

Storage Temp Range:	-20°C To +75°C
Installation Temp Range:	0°C To +50°C
Operating Temp Range:	-20°C To +75°C
Bulk Cable Weight:	21(lbs/1000ft)
Max Recommended Pulling Tension:	40(lbs)
Min Bend Radius/Minor Axis:	1.0(in)
Min Bend Radius/Installation:	2.2(in)

## Temperature Range

UL Temp Rating:	+75°C
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## Plenum/Non-Plenum

Plenum (Y/N):	No
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## History

### Variants

Item #	Color
1752A 0101000	BLACK
1752A 010U1000	BLACK
1752A 0061000	BLUE
1752A 006U1000	BLUE
1752A F2V1000	GRAY
1752A F2VU1000	GRAY
1752A 0051000	GREEN
1752A 005U1000	GREEN
1752A 0031000	ORANGE

1752A 003U1000	ORANGE
1752A 007U1000	PURPLE
1752A 0021000	RED
1752A 002U1000	RED
1752A 0041000	YELLOW
1752A 004U1000	YELLOW

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