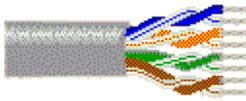


## 1752A Multi-Conductor - Enhanced Category 5e Bonded-Pair Patch Cable

For more Information  
please call

1-800-Belden1



### Description:

24 AWG Bonded-Pairs, Bonded Stranded (7x32) Tinned Copper Conductors, Non-Plenum, Polyolefin Insulation, RJ-45 Compatible, 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.)
0.220

#### Pair

**Pair Color Code Chart:**

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

### Mechanical Characteristics (Overall)

**Operating Temperature Range:** -20°C To +80°C

**Bulk Cable Weight:** 25 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 40 lbs.

**Min. Bend Radius/Minor Axis:** 1 in.

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Min. Bend/Installation: 2.200 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

CEC/C(UL) Specification:	CM
Other Standards:	ISO/IEC 11801 ed 2.1 (2008) Class D
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 5e - TIA 568.C.2
Other Specification:	ICEA 661, Cat 5e-100 Patch, UL verified to Category 5e Patch

#### Applicable Patents:

Country	Patent
US	5606151
US	5734126
US	5763823

#### Flame Test

UL Flame Test:	UL1685 UL Loading
CSA Flame Test:	FT1

#### Plenum/Non-Plenum

Plenum (Y/N):	No
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### Electrical Characteristics (Overall)

#### Nom. Mutual Capacitance:

Capacitance (pF/ft)  
15

Maximum Capacitance Unbalance (pF/100 m): 66

#### Nominal Velocity of Propagation:

VP (%)  
70

#### Maximum Delay:

Delay (ns/100 m)  
510

#### 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 (%)

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### Electrical Characteristics-Premise (Overall)

Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. PSACR (dB)	Min RL (dB)
1	2.4	65.3	65.3	62.9	20.0
4	4.8	56.3	56.3	51.5	23.0
8	6.8	51.8	51.8	45.0	24.5
10	7.7	50.3	50.3	42.6	25.0
16	9.7	47.3	47.3	37.5	25.0
20	11.0	45.8	45.8	34.8	25.0
25	12.4	44.3	44.3	31.9	24.3
31.25	13.9	42.9	42.9	29.0	23.6
62.5	20.2	38.4	38.4	18.3	21.5
100	26.0	35.3	35.3	9.2	20.1
155	33.2	32.5	32.5	0	19.0
200	38.4	30.8	30.8		19.0
250	43.7	29.3	29.3		18.0
300	48.6	28.2	28.2		18.0
310	49.5	27.9	27.9		18.0
350	53.2	27.2	27.2		17.0

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 12	105 ± 10	63.8	60.8
4	100 ± 12	100 ± 10	51.7	48.7
8	100 ± 12	100 ± 10	45.7	42.7
10	100 ± 12	100 ± 10	43.8	40.8
16	100 ± 12	100 ± 10	39.7	36.7
20	100 ± 12	100 ± 10	37.7	34.7
25	100 ± 15	100 ± 10	35.8	32.8
31.25	100 ± 15	100 ± 10	33.9	30.9
62.5	100 ± 15	100 ± 10	27.8	24.9
100	100 ± 15	100 ± 10	23.8	20.8
155	100 ± 18	100 ± 10	19.9	16.9
200	100 ± 20	100 ± 10	17.7	14.7
250	100 ± 20	100 ± 10	15.8	12.8
300	100 ± 20	100 ± 10	14.2	11.2
310	100 ± 20	100 ± 10	13.9	10.9
350	100 ± 22	100 ± 10	12.9	9.9

### Notes (Overall)

**Notes:** Jacket sequentially marked at 2 ft. intervals. Third party verified to ANSI/TIA-568-C.2, Category 5e Patch.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1752A F2VU1000	1,000 FT	24.000 LB	GRAY, DEC		CAT5E+ PATCH U/UTP CM BOX
1752A F2V1000	1,000 FT	26.000 LB	GRAY, DEC	C	CAT5E+ PATCH U/UTP CM REEL
1752A 002U1000	1,000 FT	24.000 LB	RED		CAT5E+ PATCH U/UTP CM BOX
1752A 0021000	1,000 FT	26.000 LB	RED	C	CAT5E+ PATCH U/UTP CM REEL
1752A 003U1000	1,000 FT	24.000 LB	ORANGE		CAT5E+ PATCH U/UTP CM BOX
1752A 0031000	1,000 FT	26.000 LB	ORANGE	C	CAT5E+ PATCH U/UTP CM REEL
1752A 004U1000	1,000 FT	24.000 LB	YELLOW		CAT5E+ PATCH U/UTP CM BOX
1752A 0041000	1,000 FT	26.000 LB	YELLOW	C	CAT5E+ PATCH U/UTP CM REEL
1752A 005U1000	1,000 FT	24.000 LB	GREEN, DARK		CAT5E+ PATCH U/UTP CM BOX
1752A 0051000	1,000 FT	26.000 LB	GREEN, DARK	C	CAT5E+ PATCH U/UTP CM REEL
1752A 006U1000	1,000 FT	24.000 LB	BLUE, LIGHT		CAT5E+ PATCH U/UTP CM BOX
1752A 0061000	1,000 FT	26.000 LB	BLUE, LIGHT	C	CAT5E+ PATCH U/UTP CM REEL
1752A 007U1000	1,000 FT	24.000 LB	VIOLET		CAT5E+ PATCH U/UTP CM BOX

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1752A 010U1000	1,000 FT	24.000 LB	BLACK		CAT5E+ PATCH U/UTP CM BOX
1752A 010I1000	1,000 FT	26.000 LB	BLACK	C	CAT5E+ PATCH U/UTP CM REEL

**Notes:**

C = CRATE REEL PUT-UP.

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