

## 1592A Multi-Conductor - Category 5e Nonbonded-Pair Patch Cable



For more Information  
please call

1-800-Belden1



### Description:

24 AWG stranded (7x32) bare copper conductors, non-plenum, Polyolefin insulation, twisted pairs, RJ-45 compatible, see color code chart (below), PVC jacket (red, orange, yellow, green, blue, purple, light gray, white or black).

### 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

### Physical Characteristics (Overall)

#### Conductor

**AWG:**

# Pairs	AWG	Stranding	Conductor Material
4	24	7x32	BC - Bare Copper

#### 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

#### Overall Cabling

**Overall Nominal Diameter:** 0.213 in.

#### 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 +75°C

**Bulk Cable Weight:** 21 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 25 lbs.

**Min. Bend Radius (Install)/Minor Axis:** 0.800 in.

## 1592A Multi-Conductor - Category 5e Nonbonded-Pair Patch Cable

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM, UL444
CEC/C(UL) Specification:	CM
Other Standards:	11801 Category 5 Patch
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:	568-B.2 Category 5e Patch
Other Specification:	NEMA WC-63.1 Category 5e Patch, ICEA 661 Category 5 Patch, UL verified to Category 5e

#### 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

#### Nominal Velocity of Propagation:

VP (%)  
69

Maximum Capacitance Unbalance (pF/100 m): 330

#### Maximum Delay:

Delay (ns/100 m)  
510 @ 100MHz

#### Typical Delay Skew:

Delay Skew (ns/ft)  
0.037

#### Max. Delay Skew:

Delay Skew (ns/100 m)  
45

#### Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)  
9.38

#### Max. Operating Voltage - UL:

Voltage  
300 V RMS

#### Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)  
3

## 1592A Multi-Conductor - Category 5e Nonbonded-Pair Patch Cable

### Electrical Characteristics-Premise (Overall)

Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min RL (dB)	Min. SRL (dB)
1	2.5	65.3	62.3	62.8	59.8	20.0	23.0
4	4.9	56.3	53.3	51.4	48.4	23.0	23.0
8	6.9	51.8	48.8	44.9	41.9	24.5	24.5
10	7.8	50.3	47.3	42.5	39.5	25.0	25.0
16	9.9	47.3	44.3	37.4	34.4	25.0	25.0
20	11.1	45.8	42.8	34.7	31.7	25.0	25.0
25	12.5	44.3	41.3	21.8	28.8	24.3	24.3
31.25	14.1	42.9	39.9	28.8	25.8	23.6	23.6
62.5	20.4	38.4	35.4	18.0	15.0	21.5	21.5
100	26.4	35.3	32.3	8.9	5.9	20.1	20.1
155	33.7	32.5	29.5			15.8	
200	38.9	30.8	27.8			15.0	

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	100 ± 15	63.8	60.8
4	100 ± 15	100 ± 15	51.7	48.7
8	100 ± 15	100 ± 15	45.7	42.7
10	100 ± 15	100 ± 15	43.8	40.8
16	100 ± 15	100 ± 15	39.7	36.7
20	100 ± 15	100 ± 15	37.7	34.7
25	100 ± 15	100 ± 15	35.8	32.8
31.25	100 ± 15	100 ± 15	33.9	30.9
62.5	100 ± 15	100 ± 15	27.8	24.8
100	100 ± 15	100 ± 15	23.8	20.8
155	100 ± 25	100 ± 15	19.9	16.9
200	100 ± 25	100 ± 15	17.7	14.7

### Notes (Overall)

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

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1592A F2VU1000	1,000 FT	22.000 LB	GRAY, DEC		4 PR #24 PP FR PVC
1592A F2V1000	1,000 FT	23.000 LB	GRAY, DEC		4 PR #24 PP FR PVC
1592A 002U1000	1,000 FT	22.000 LB	RED		4 PR #24 PP FR PVC
1592A 0021000	1,000 FT	23.000 LB	RED	C	4 PR #24 PP FR PVC
1592A 003U1000	1,000 FT	22.000 LB	ORANGE		4 PR #24 PP FR PVC
1592A 0031000	1,000 FT	23.000 LB	ORANGE	C	4 PR #24 PP FR PVC
1592A 004U1000	1,000 FT	22.000 LB	YELLOW		4 PR #24 PP FR PVC
1592A 0041000	1,000 FT	23.000 LB	YELLOW		4 PR #24 PP FR PVC
1592A 005U1000	1,000 FT	22.000 LB	GREEN, DARK		4 PR #24 PP FR PVC
1592A 0051000	1,000 FT	23.000 LB	GREEN, DARK	C	4 PR #24 PP FR PVC
1592A 006U1000	1,000 FT	22.000 LB	BLUE, LIGHT		4 PR #24 PP FR PVC
1592A 0061000	1,000 FT	23.000 LB	BLUE, LIGHT	C	4 PR #24 PP FR PVC
1592A 007U1000	1,000 FT	22.000 LB	VIOLET		4 PR #24 PP FR PVC
1592A 0071000	1,000 FT	23.000 LB	VIOLET	C	4 PR #24 PP FR PVC
1592A 009U1000	1,000 FT	22.000 LB	WHITE		4 PR #24 PP FR PVC
1592A 0091000	1,000 FT	23.000 LB	WHITE	C	4 PR #24 PP FR PVC
1592A 010U1000	1,000 FT	22.000 LB	BLACK		4 PR #24 PP FR PVC
1592A 0101000	1,000 FT	23.000 LB	BLACK	C	4 PR #24 PP FR PVC

**Notes:**

C = CRATE REEL PUT-UP.

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