

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



For more Information  
please call

1-800-Belden1



### General Description:

CAT5e (200MHz), 4-Pair, U/UTP-Unshielded, CM Rated, Premise Patch Cable, 24 AWG Stranded (7x32) Bare Copper Conductors, Polyolefin Insulation, PVC Jacket, RJ-45 Compatible

### 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

**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.)
0.213

#### 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)

<b>Storage Temperature Range:</b>	-20°C To +70°C
<b>Installation Temperature Range:</b>	0°C To +60°C
<b>Operating Temperature Range:</b>	-20°C To +75°C
<b>UL Temperature Rating:</b>	75C
<b>Bulk Cable Weight:</b>	21 lbs/1000 ft.
<b>Max. Recommended Pulling Tension:</b>	25 lbs.
<b>Min. Bend Radius/Minor Axis:</b>	1 in.
<b>Min. Bend/Installation:</b>	2.250 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	CM
<b>CEC/C(UL) Specification:</b>	CM

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EU Directive 2011/65/EU (ROHS II):	Yes
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 Category 5 Patch

### Flame Test

UL Flame Test:	UL1685 Vertical Tray Flame Test
C(UL) Flame Test:	FT1
CSA Flame Test:	FT1

### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Suitability - Aerial:	No
Suitability - Burial:	No
Sunlight Resistance:	No

### 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): 330

#### Nominal Velocity of Propagation:

VP (%)  
69

#### 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

### 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

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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 ANSI/TIA-568-C.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		CAT5E PATCH U/UTP CM BOX
1592A F2V1000	1,000 FT	24.000 LB	GRAY, DEC		CAT5E PATCH U/UTP CM REEL
1592A 002U1000	1,000 FT	22.000 LB	RED		CAT5E PATCH U/UTP CM BOX
1592A 002I1000	1,000 FT	24.000 LB	RED	C	CAT5E PATCH U/UTP CM REEL
1592A 003U1000	1,000 FT	22.000 LB	ORANGE		CAT5E PATCH U/UTP CM BOX
1592A 003I1000	1,000 FT	24.000 LB	ORANGE	C	CAT5E PATCH U/UTP CM REEL
1592A 004U1000	1,000 FT	22.000 LB	YELLOW		CAT5E PATCH U/UTP CM BOX
1592A 004I1000	1,000 FT	24.000 LB	YELLOW		CAT5E PATCH U/UTP CM REEL
1592A 005U1000	1,000 FT	22.000 LB	GREEN, DARK		CAT5E PATCH U/UTP CM BOX
1592A 005I1000	1,000 FT	24.000 LB	GREEN, DARK	C	CAT5E PATCH U/UTP CM REEL
1592A 006U1000	1,000 FT	22.000 LB	BLUE, LIGHT		CAT5E PATCH U/UTP CM BOX
1592A 006I1000	1,000 FT	24.000 LB	BLUE, LIGHT	C	CAT5E PATCH U/UTP CM REEL
1592A 007U1000	1,000 FT	22.000 LB	VIOLET		CAT5E PATCH U/UTP CM BOX
1592A 007I1000	1,000 FT	24.000 LB	VIOLET	C	CAT5E PATCH U/UTP CM REEL
1592A 009U1000	1,000 FT	22.000 LB	WHITE		CAT5E PATCH U/UTP CM BOX
1592A 009I1000	1,000 FT	23.000 LB	WHITE	C	CAT5E PATCH U/UTP CM REEL
1592A 010U1000	1,000 FT	22.000 LB	BLACK		CAT5E PATCH U/UTP CM BOX
1592A 010I1000	1,000 FT	24.000 LB	BLACK	C	CAT5E PATCH U/UTP CM REEL

**Notes:**  
C = CRATE REEL PUT-UP.

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