

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. (mm)
5.410

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)

Storage Temperature Range: -20°C To +70°C

Installation Temperature Range: 0°C To +60°C

Operating Temperature Range: -20°C To +75°C

UL Temperature Rating: 75C

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

Bulk Cable Weight:	31.252 Kg/Km
Max. Recommended Pulling Tension:	111.205 N
Min. Bend Radius/Minor Axis:	25.400 mm
Min. Bend/Installation:	57.150 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
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
---------------	----

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/m)	49.215
--------------------	--------

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/m)	0.121
-------------------	-------

METRIC MEASUREMENT VERSION

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

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
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 0021000	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 0031000	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 0041000	1,000 FT	24.000 LB	YELLOW		CAT5E PATCH U/UTP CM REEL

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

1592A 005U1000	1,000 FT	22.000 LB	GREEN, DARK		CAT5E PATCH U/UTP CM BOX
1592A 0051000	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 0061000	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 0071000	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 0091000	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 0101000	1,000 FT	24.000 LB	BLACK	C	CAT5E PATCH U/UTP CM REEL

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 5 Revision Date: 08-03-2017

© 2019 Belden, Inc
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).