Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

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, 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

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

Outer Jacket Diameter:

Nom. Dia. (mm)
5.410

Overall Cabling

Overall Nominal Diameter: 5.410 mm

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:	31.252 Kg/Km
Max. Recommended Pulling Tension:	111.205 N
Min. Bend Radius (Install)/Minor Axis:	19.050 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
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, UL Verified to Category 5e 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

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.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1592A F2VU1000	305 MT	9.979 KG	GRAY, DEC		CAT5E PATCH U/UTP CM BOX
1592A F2V1000	305 MT	10.433 KG	GRAY, DEC		CAT5E PATCH U/UTP CM REEL
1592A 002U1000	305 MT	9.979 KG	RED		CAT5E PATCH U/UTP CM BOX
1592A 0021000	305 MT	10.433 KG	RED	C	CAT5E PATCH U/UTP CM REEL
1592A 003U1000	305 MT	9.979 KG	ORANGE		CAT5E PATCH U/UTP CM BOX
1592A 0031000	305 MT	10.433 KG	ORANGE	C	CAT5E PATCH U/UTP CM REEL
1592A 004U1000	305 MT	9.979 KG	YELLOW		CAT5E PATCH U/UTP CM BOX
1592A 0041000	305 MT	10.433 KG	YELLOW		CAT5E PATCH U/UTP CM REEL
1592A 005U1000	305 MT	9.979 KG	GREEN, DARK		CAT5E PATCH U/UTP CM BOX
1592A 0051000	305 MT	10.433 KG	GREEN, DARK	C	CAT5E PATCH U/UTP CM REEL
1592A 006U1000	305 MT	9.979 KG	BLUE, LIGHT		CAT5E PATCH U/UTP CM BOX

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1592A 0061000	305 MT	10.433 KG	BLUE, LIGHT	C	CAT5E PATCH U/UTP CM REEL
1592A 007U1000	305 MT	9.979 KG	VIOLET		CAT5E PATCH U/UTP CM BOX
1592A 0071000	305 MT	10.433 KG	VIOLET	C	CAT5E PATCH U/UTP CM REEL
1592A 009U1000	305 MT	9.979 KG	WHITE		CAT5E PATCH U/UTP CM BOX
1592A 0091000	305 MT	10.433 KG	WHITE	C	CAT5E PATCH U/UTP CM REEL
1592A 010U1000	305 MT	9.979 KG	BLACK		CAT5E PATCH U/UTP CM BOX
1592A 0101000	305 MT	10.433 KG	BLACK	C	CAT5E PATCH U/UTP CM REEL

Notes:
C = CRATE REEL PUT-UP.

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