

1303E Multi-Conductor - Category 6A Tactical Cable Upjacketed



For more Information
please call

1-800-Belden1



General Description:

Catsnake® Category 6A Patch S/FTP, 4-Unbonded Pairs, 24AWG Stranded Bare Copper Conductors, Foamed PE Insulation, Individually Shielded Pairs, Overall Tinned Copper Braid, PVC Inner and Outer Jackets

Usage (Overall)

Suitable Applications:

CAT 6a patch horizontal and building backbone, CobraNet, eSnake, Ethersound, Digital audio over Ethernet, 10GBase-T (10 Gigabit Ethernet), 1000Base-T (Gigabit Ethernet), 100 Base-T, 10 Base-T, FDDI, ATM, HDBaseT

Physical Characteristics (Overall)

Conductor

AWG:

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

Total Number of Conductors:

8

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
FPE - Foamed Polyethylene	1.397

Inner Shield

Inner Shield Material:

Type	Inner Shield Material	Coverage (%)	Description
Tape	Aluminum/Polyester (Al out)	100.000	Each Pair Individually Shielded

Inner Shield Drain Wire AWG:

AWG	Stranding	Conductor Material
26	7x	Tinned Cu (one drain wire for 4 pairs)

Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (mm)
PVC	7.201

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	Tinned Copper	80.000

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
Matte PVC

Outer Jacket Diameter:

Nom. Dia. (mm)
8.700

Outer Jacket Ripcord:

No

1303E Multi-Conductor - Category 6A Tactical Cable Upjacketed

Pair

Pair Color Code Chart:

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

Mechanical Characteristics (Overall)

Installation Temperature Range:	+5°C To +50°C
Operating Temperature Range:	-30°C To +60°C
Bulk Cable Weight:	83.012 Kg/Km
Max. Recommended Pulling Tension:	75.175 N
Min. Bend Radius/Minor Axis:	87.122 mm
Min. Bend/Installation:	87.122 mm
Flex Cycle Rating:	2,000,000 cycles (see Notes below)

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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):	05/17/2016
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
ANSI Specification:	ANSI/TIA/EIA 568-B.2-10 (2008)
Other Specification:	ISO/IEC 11801 2nd Edition (2002), ISO/IEC 11801 Amendment 2 (2010), EN 50173-1 (2002), EN 50173-1 Amendment 1 (2009), ANSI/TIA/EIA 568-B.2-10 (2008), IEC 60332-1

Applicable Patents:

Country
www.belden.com/p

Flame Test

IEC Flame Test:	60332-1
-----------------	---------

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Burial:	No
Sunlight Resistance:	Yes - Black only.
Oil Resistance:	No
Non-halogenated:	No

Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
100.000

Max. Mutual Capacitance:

Capacitance (pF/m)
56.105

Maximum Capacitance Unbalance (pF/100 m): 160

Nominal Velocity of Propagation:

VP (%)
77.000

Nominal Delay:

Freq. (MHz)	Delay (ns/m)
1.000	5.700
4.000	5.520
10.000	5.450
16.000	5.430
31.200	5.400
62.500	5.390
100.000	5.380
125.000	5.370
200.000	5.360
250.000	5.360
300.000	5.360
500.000	5.360

Max. Delay Skew:

Delay Skew (ns/100 m)
25.000

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)
9.500

Max. Operating Voltage - Other:

Voltage Description
72 VDC

Max. Recommended Current:

Description	Current
Each Conductor	1.5A

Maximum DCR Unbalanced:

Description	DCR Unbalance @ 20°C (%)
Conductor-to-Conductor	2.000
Pair-to-Pair	4.000

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)
1	2.500	75.3	72.3	72.8	69.8	20.000
4	4.600	66.3	63.3	61.7	58.7	23.000
10	7.100	60.3	57.3	53.2	50.2	25.000
16	9.000	57.2	54.2	48.3	45.3	25.000
31.2	12.600	52.9	49.9	50.4	47.3	23.600
62.5	18.000	48.4	45.4	30.4	27.4	21.500
100	23.000	45.3	42.3	22.3	19.3	20.100
125	25.800	43.8	40.8	18	15	19.400
200	33.100	40.8	37.8	7.7	4.7	18.000

1303E Multi-Conductor - Category 6A Tactical Cable Upjacketed

250	37.300	39.3	36.3	2	-1	17.300
300	41.100	38.1	35.1	-3	-6	17.300
500	54.300	34.8	31.8	-19.5	-22.5	17.300

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ACRF (dB)	Min. PSACRF (dB)
1	100 ± 15	105 ± 10	68	65
4	100 ± 15	100 ± 15	56	53
10	100 ± 15	100 ± 15	48	45
16	100 ± 15	100 ± 15	43.9	40.9
31.2	100 ± 15	100 ± 10	38.1	35.1
62.5	100 ± 15	100 ± 10	32.1	9.1
100	100 ± 15	100 ± 10	28	25
125	100 ± 32	100 ± 10	26.1	23.1
200	100 ± 22	100 ± 10	22	19
250	100 ± 32	100 ± 10	20	17
300	100 ± 32	100 ± 10	18.5	15.5
500	100 ± 32	100 ± 10	14	11

Premise Cable Electrical Table 4:

Frequency (MHz)	Min. PSANEXT (dB)	Min. PSAACRF (dB)	Min. TCL (dB)	Min. ELTCTL (dB)
1.000	67.000	67.000	40.000	35.000
4.000	67.000	66.200	34.000	23.000
10.000	67.000	58.200	30.000	15.000
16.000	67.000	54.100	28.000	10.900
31.200	67.000	48.300	25.100	5.100
62.500	65.600	42.300	22.000	
100.000	62.500	38.200	20.000	
125.000	61.000	36.300	19.000	
200.000	58.000	32.200	17.000	
250.000	56.500	30.200	16.000	
300.000	55.300	28.700		
500.000	52.000	24.200		

Notes (Overall)

Notes: Outer shield (braid) is under inner jacket. Flex test: C-track, 100mm radius, 5 meter length, 3.5 meters/second

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1303E 0101000	1,000 FT	63.000 FT	BLACK		CATSNACK CAT 6A S/FTP PVC
1303E 0101640	1,640 FT	0.000	BLACK		CATSNACK CAT 6A S/FTP PVC
1303E 010500	500 FT	31.500 FT	BLACK		CATSNACK CAT 6A S/FTP PVC

Revision Number: 0 Revision Date: 05-03-2017

© 2020 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).

1303E Multi-Conductor - Category 6A Tactical Cable Upjacketed