ENGLISH MEASUREMENT VERSION



1302E Multi-Conductor - Category 6A Tactical Cable

For more Information please call

1-800-Belden1



General Description:

Mechanical Characteristics (Overall)

Max. Recommended Pulling Tension:

Installation Temperature Range:

Operating Temperature Range:

Min. Bend Radius/Minor Axis:

Bulk Cable Weight:

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 Jacket

Usage (Overall) Suitable Applications: CAT 6a patch horizontal and building backbone, CobraNet, eSnake, Ethersound, Digital audio over Ethernet, 10GBase-T (10 Gigabit Ehternet), 1000Base-T (Gigabit Ethernet), 100 Base-T, 10 Base-T, FDDI, ATM, HDBaseT **Physical Characteristics (Overall)** Conductor AWG: # Pairs AWG Stranding Conductor Material BC - Bare Copper 24 7x 8 **Total Number of Conductors:** Insulation Insulation Material: Insulation Material FPE - Foamed Polyethylene | 0.055 **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 Tinned Cu (one drain wire for 4 pairs) **Outer Shield** Outer Shield Material: Type Outer Shield Material Coverage (%) Braid Tinned Copoper 80.000 **Outer Jacket** Outer Jacket Material: **Outer Jacket Material** Matte PVC Outer Jacket Diameter: Nom. Dia. (in.) 0.311 Outer Jacket Ripcord: No Pair Pair Color Code Chart: Number Color White & Blue White & Orange White & Green White & Brown

+5°C To +50°C

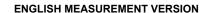
-30°C To +60°C

46.400 lbs/1000 ft.

16.900 lbs.

3.110 in.

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Min. Bend/Installation:	3.110 in.	3.110 in.		
Flex Cycle Rating:	2,000,000 cycles (see Notes below)			
pplicable Specifications and Agency Com	pliance (Overall)			
Applicable Standards & Environmental Programs	S			
ELL D	Y			

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:



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

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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Max. Mutual Capacitance:



Maximum Capacitance Unbalance (pF/100 m):

Nominal Velocity of Propagation:



Nominal Delay:

Freq. (MHz)	Delay (ns/ft)
1.000	1.737
4.000	1.682
10.000	1.661
16.000	1.655
31.200	1.646
62.500	1.643
100.000	1.640
125.000	1.637
200.000	1.634
250.000	1.634
300.000	1.634
500.000	1.634

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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:

DescriptionCurrentEach Conductor1.5A

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
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)

 $\textbf{Notes:} \ \ \mathsf{Flex} \ \mathsf{test:} \ \mathsf{C-track}, \ \mathsf{100mm} \ \mathsf{radius}, \ \mathsf{5} \ \mathsf{meter} \ \mathsf{length}, \ \mathsf{3.5} \ \mathsf{meters/second}$

Put Ups and Colors:

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Item #	Putup	Ship Weight	Color	Notes	Item Desc
1302E 0101000	1,000 FT	54.000 FT	BLACK		CATSNAKE CAT 6A S/FTP PVC
1302E 0101640	1,640 FT	83.640 FT	BLACK		CATSNAKE CAT 6A S/FTP PVC
1302E 010500	500 FT	26.000 FT	BLACK		CATSNAKE CAT 6A S/FTP PVC

Revision Number: 0 Revision Date: 08-18-2016

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