



Product: [1302E](#)

CatSnake® Category 6A Cable, 4 Pair, S/FTP, PVC

Product Description

CatSnake® Category 6A Cable, 4 Pair, 24 AWG Stranded Bare Copper Conductors, S/FTP Shielded, PVC Jacket

Technical Specifications

Product Overview

Suitable Applications:	Category 6A Patch, Horizontal and Backbone Cable, CobraNET, eSnake, Ethersound, Digital audio over Ethernet; Ethernet up to 10GBASE-T
Patent:	This product has one or more applicable patents. More information on patents can be found at https://www.belden.com/resources/patents .

Construction Details

Conductor

AWG	Stranding	Material	Number of Pairs
24	7x32	BC - Bare Copper	4

Insulation

Element	Material	Color Code
Individual shielded pair	PO - Polyolefin (Foam)	White & Blue, White & Orange, White & Green, White & Brown

Bonded-Pair: No

Inner Shield Material

Element	Shield Type	Material	Coverage
Individual shielded pair	Tape	Bi-Laminate (Alum+Poly)	100%

Outer Shield Material

Type	Material	Coverage
Braid	Tinned Copper (TC)	80%

Outer Jacket Material

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.311 in

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. DCR Unbalance	Max. DCR Unbalanced Between Pairs [%]	Max. Capacitance Unbalance	Max. Mutual Capacitance	Nom. Mutual Capacitance	Nom. Velocity of Prop.	Max. Current
95 Ohm/km	2%	4%	1,600 pF/m	56 pF/m	17 pF/ft	77%	1.5 A

Delay

Max. Delay	Max. Delay Skew	Nom. Velocity of Propagation (VP) [%]
534 ns/100m	25 ns/100m	77%

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACR [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Min. PSANEXT	Min. PSAACRF	Min. TCL [dB]	Min. ELTCTL [dB]
1 MHz	2.5 dB/100m	75.3 dB	72.3 dB	72.8 dB	69.8 dB	68 dB	65 dB	20 dB	67 dB	67 dB	40 dB	35 dB

4 MHz	4.6 dB/100m	66.3 dB	63.3 dB	61.7 dB	58.7 dB	56 dB	53 dB	23 dB	67 dB	66.2 dB	34 dB	23 dB
10 MHz	7.1 dB/100m	60.3 dB	57.3 dB	53.2 dB	50.2 dB	48 dB	45 dB	25 dB	67 dB	58.2 dB	30 dB	15 dB
16 MHz	9 dB/100m	57.2 dB	54.2 dB	48.3 dB	45.3 dB	43.9 dB	40.9 dB	25 dB	67 dB	54.1 dB	28 dB	10.9 dB
31.2 MHz	12.6 dB/100m	52.9 dB	49.9 dB	50.4 dB	47.3 dB	38.1 dB	35.1 dB	23.6 dB	67 dB	48.3 dB	25.1 dB	5.1 dB
62.5 MHz	18 dB/100m	48.4 dB	45.4 dB	30.4 dB	27.4 dB	32.1 dB	9.1 dB	21.5 dB	65.6 dB	42.3 dB	22 dB	
100 MHz	23 dB/100m	45.3 dB	42.3 dB	22.3 dB	19.3 dB	28 dB	25 dB	20.1 dB	62.5 dB	38.2 dB	20 dB	
125 MHz	25.8 dB/100m	43.8 dB	40.8 dB	18 dB	15 dB	26.1 dB	23.1 dB	19.4 dB	61 dB	36.3 dB	19 dB	
200 MHz	33.1 dB/100m	40.8 dB	37.8 dB	7.7 dB	4.7 dB	22 dB	19 dB	18 dB	58 dB	32.2 dB	17 dB	
250 MHz	37.3 dB/100m	39.3 dB	36.3 dB	2 dB	-1 dB	20 dB	17 dB	17.3 dB	56.5 dB	30.2 dB	16 dB	
300 MHz	41.1 dB/100m	38.1 dB	35.1 dB	-3 dB	-6 dB	18.5 dB	15.5 dB	17.3 dB	55.3 dB	28.7 dB		
500 MHz	54.3 dB/100m	34.8 dB	31.8 dB	-19.5 dB	-22.5 dB	14 dB	11 dB	17.3 dB	52 dB	24.2 dB		

Voltage

UL Voltage Rating	Non-UL Voltage Rating
300 V RMS	300 V

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-30°C To +60°C	0°C To +50°C	-30°C To +60°C

Bend Radius

Installation Min.
64 mm

Max. Pull Tension:	16.9 lbs
Bulk Cable Weight:	46.9 lbs

Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor, Outdoor
ICEA Compliance:	S-116-732-2013
IEEE Compliance:	IEEE 802.3bt Type 1, Type 2, Type 3, Type 4
NEMA Compliance:	ANSI/NEMA WC-66
Data Category:	Category 6A
TIA/EIA Compliance:	ANSI/TIA-568.2-D Category 5e
Cenelec Compliance:	EN 50173-1:2018, Segregation class according EN50174-2=c
European Directive Compliance:	EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE), REACH: 2020-01-16
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Part Number

Variants

Item #	Color	Putup Type	Length	UPC/EAN
1302E.00152	Black	Reel	152 m	8719605000873
1302E.00305	Black	Reel	305 m	8719605000897
1302E.009999	Black	Reel	499 m	8719605000910
1302E 010500	Black	Reel	500 ft	612825381631
1302E.00500	Black	Reel	500 m	8719605000903
1302E 0101000	Black	Reel	1,000 ft	612825381778
1302E 0101640	Black	Reel	1,640 ft	612825381761
1302E.003000	Black	Reel	3,000 m	8719605000880

Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system.
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History

Update and Revision:	Revision Number: 0.416 Revision Date: 09-08-2020
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