



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

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

Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Individual Shielded Pair	PO - Polyolefin (Foam)	1.4 mm (0.055 in)	White & Blue, White & Orange, White & Green, White & Brown

Inner Shield

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

Outer Shield

Shield Type	Material	Coverage
Braid	Tinned Copper (TC)	80%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	7.9 mm (0.31 in)

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Mutual Capacitance	Max. Capacitance Unbalance	Nom. Characteristic Impedance
95 Ohm/km	56 pF/m (17 pF/ft)	1,600 pF/m	100 Ohm

Delay

Max. Delay	Max. Delay Skew	Nom. Velocity of Prop.
534 ns/100m	25 ns/100m	77%

High Frequency

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 [dB]	Min. PSAACRF [dB]	Min. TCL [dB]	Min. ELTCTL [dB]
1	2.5 dB/100m	75.3	72.3	72.8	69.8	68	65	20	67	67	40	35
4	4.6 dB/100m	66.3	63.3	61.7	58.7	56	53	23	67	66.2	34	23

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

Table Notes: Reference standard: ISO/IEC 61156-6 ed. 3.0 (2010)

Transfer Impedance

Frequency	Max. Transfer Impedance
1 Mhz	Max. 50 mOhm/m
10 Mhz	Max. 100 mOhm/m
30 Mhz	Max. 200 mOhm/m
100 Mhz	Max. 1000 mOhm/m

Transfer Impedance Class: Grade 2

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 (2.5 in)

Max. Pull Tension: 16.9 lbs (7.67 kg)

Bulk Cable Weight: 46.9 lbs

Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor
Flammability / Reaction to Fire:	IEC 60332-1-2
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
ISO/IEC Compliance:	ISO/IEC 11801-1, IEC 61156-6
CENELEC Compliance:	EN 50173-1:2018, Segregation class according EN50174-2 = c
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE), REACH: 2020-01-16
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

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

History

Update and Revision: Revision Number: 0.475 Revision Date: 11-02-2021

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

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