



Product Description CATSNAKE S/FTP Cat6a PVC jacket

Technical Specifications

Product Overview

Suitable Applications:	application		10GE	Base - T(10 Gig			ne cable; CobraNEt, es Base - T (Gigabit Ethe				
onstruction Deta	ails										
Conductor											
Element	Size	Stranding		Material	Number of P	airs	Number of Element				
Individual Shielded Pair	24 AWG	7x32	BC	- Bare Copper	4		8				
								1			
nsulation											
nsulation Element	ſ	Material		Nom. Insulat	ion Diameter		c	olor Code			

4 pairs twisted together

Inner Shield

Element	Shield Type	Material	Coverage
Individual Shielded Pair	Таре	Bi-Laminate (Alum+Poly)	100%
Table Notes:	Aluminum faci	na outside	

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Braid	Tinned Copper (TC)	80%	26 AWG (Solid) TC

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	7.9 mm (0.31 in)
Table Notes:	Matte Finish
Overall Cable Diameter (Nominal):	7.9 mm (0.31 in)

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Mutual Capacitance	Max. Capacitance Unbalance	Nom. Characteristic Impedance
95 Ohm/km (29 Ohm/1000ft)	56 pF/m (17 pF/ft)	160 pF/100m	100 Ohm

Delay

Max. Delay Skew Nom. Velocity of Prop.

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: IEC 61156-6

Transfer Impedance

Frequency	Max. Tran	sfer Impedance		
1 Mhz	Max. 50 m	Max. 50 mOhm/m		
10 Mhz	Max. 100 mOhm/m			
30 Mhz	Max. 200 r	nOhm/m		
100 Mhz	Max. 1000	mOhm/m		
Transfer Imp Class:	bedance	Grade 2		
Screening C	lass:	Type Ib		

Coupling Attenuation

Table Notes:

Voltage

Voltage Ratin
72 V

Mechanical Characteristics

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Temperature

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

Trailing/Flexing Properties

Motion	Number of Cycles	Radius	Speed	Acceleration	Traverse Length
Trailing/Bending	2,000,000	80 mm	5 m/s	5 m/s ²	5 m

Bend Radius

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor
Flammability / Reaction to Fire:	IEC 60332-1
IEEE Compliance:	PoE: 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
ISO/IEC Compliance:	ISO/IEC 11801-1, IEC 61156-6
CENELEC Compliance:	EN 50173-1, Segregation class according EN50174-2 = c

European Directive Compliance:

EU CE Mark, REACH

Product Notes

Notes:

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

History

Varianta

Update and Revision: Revision Number: 0.485 Revision Date: 04-08-2022

Part Numbers

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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