



Product Description

CATSNAKE Category 6A Cable, 4 Pair, S/FTP, PVC PVC upjacketed

Technical Specifications

Product Overview

Suitable Applications:	Field deployable CAT6a patch horizontal and building backbone cable; AVB, Dante, CobraNEt, eSnake, Ethersound, Digital audio over Ethernet; Support current and future Category 6 and 6 applications, such as: 10GBase - T(10 Gigabit Ethernet), 1000 Base - T (Gigabit Ethernet), 100 Base - T, 10 Base - T, FDDI, ATM; Compatible connectors Belden R301601 0005 (T568A) and R301602 000S1 (T568B)									
Construction Deta	ails									
Conductor										
Element	Size	Stranding		Material	Number of Pair	s Number of Element				
Individual Shielded Pair	24 AWG	7x32	BC	- Bare Copper	4	8				
nsulation										
Element		Material			on Diameter		olor Code			
Individual Shielded Pair	PE - Poly	ethylene (Fo	oam)	1.4 mm (0.055	5 in) W	hite & Blue, White & Orar	ige, White & Green, White 8	& Brown		
Cable Core										
Description 4 pairs twisted together										
nner Shield										

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

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Braid	Tinned Copper (TC)	80%	26 AWG (7x34) TC

Outer Jacket

Layer	Separator		Separator Material			
1			PVC - Polyvinyl Chloride	7.2 mm (0.28 in)		
2	non-Woven Tape		PVC - Polyvinyl Chloride	8.7 mm (0.34 in)		
Table Notes:		N	latte Finish, Rugged Sheat	h		
Overall Cable Diameter (Nominal):		8.7 mm (0.34 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)	160 pF/100m	100 Ohm

Max. Delay Skew	Nom. Velocity of Prop.
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:

Transfer Impedance

Frequency	Max. Trar	nsfer Impedance
1 Mhz	Max. 50 m	nOhm/m
10 Mhz	Max. 100	mOhm/m
30 Mhz	Max. 200	mOhm/m
100 Mhz	Max. 1000) mOhm/m
Transfer Imp Class:	pedance	Grade 2
Screening C	class:	Type Ib
Table Notes		Coupling Attenua

Voltage

Voltage Rating 72 V DC

Mechanical Characteristics

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
Table Notes:		Drag chain te	st			

Bend Radius

Stationary Min.	Installation Mir
32 mm (1.3 in)	64 mm
Max. Pull Tension	n: 75 N (17
Bulk Cable Weig	ht: 83 kg/km

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	IEC 60332-1-2
IEEE Compliance:	PoE: IEEE 802.3bt Type 1, Type 2, Type 3, Type 4
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:

History

Update and Revision: Revision Number: 0.536 Revision Date: 03-15-2023

Part Numbers

Variants UPC/EAN Item # Color Putup Type Length 1303E.00152 8719605000927 Black Reel 152 m 1303E.00305 Black Reel 305 m 8719605000941 1303E 010500 Black Reel 500 ft 612825381839 1303E.00500 Black Reel 500 m 8719605000958 1303E 0101000 Black Reel 1,000 ft 612825381822 1,640 ft 612825381815 1303E 0101640 Black Reel 1303E.003000 Black Reel 3,000 m 8719605000934

© 2023 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 here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

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

Belden provides the information and specifications herein on an "ASIS" 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 all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information 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. The 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 regulators based on their individual usage of the product.