



# **Product Description**

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

## **Technical Specifications**

## **Product Overview**

Suitable Applications:	and 6 appl		h as:	10GBase - T(1			ne cable; AVB, Dante, ( ), 1000 Base - T (Gigab				
Construction Deta	Construction Details										
Conductor											
Element	Size	Stranding		Material	Number of	Pairs	Number of Element				
Individual Shielded Pair	24 AWG	7x32	BC	- Bare Copper	4		8				
Insulation											
Element	l l	Material		Nom. Insulati	ion Diameter	r	C	olor Code			
Individual Shielded Pair	ndividual Shielded Pair PE - Polyethylene (Foam) 1.4		1.4 mm (0.055	1.4 mm (0.055 in)		White & Blue, White & Orange, White & Green, White & Brown					
Cable Core											
Description											

4 pairs twisted together

#### Inner Shield

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

#### Outer Shield

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

## Outer Jacket

Layer	Separator		Material	Nom. Diameter		
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:		Ν	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. Trai	nsfer Impedance
1 Mhz	Max. 50 n	nOhm/m
10 Mhz	Max. 100	mOhm/m
30 Mhz	Max. 200	mOhm/m
100 Mhz	Max. 1000	) mOhm/m
Transfer Imp Class:	bedance	Grade 2
Screening C	lass:	Type Ib
Table Notes: Coupling Attenuat		

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/s²	5 m

## Bend Radius

Stationary Min.	Installation Min.
32 mm (1.3 in)	64 mm
Max. Pull Tension	1: 75 N (17 lb
Bulk Cable Weigh	nt: 83 kg/km

# **Standards and Compliance**

Environmental Suitability:	ndoor/Outdoor					
Flammability / Reaction to Fire: IEC 60332-1						
IEEE Compliance:	PoE: IEEE 802.3bt Type 1, Type 2, Type 3, Type 4					
Data Category:	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**

Update and Revision: Revision Number: 0.475 Revision Date: 04-12-2022

## **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

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