

ENGLISH MEASUREMENT VERSION

11872A Multi-Conductor - Category 6 DataTuff® Twisted Pair Cable



For more Information please call

1-800-Belden1



General Description:

23 AWG Bonded-Pair solid bare copper conductors, polyolefin insulation, PVC inner jacket, rip cord, industrial grade PVC outer jacket. Sequential marking at two foot intervals.

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Usage (Overall)				
Suitable Applications:	Industrial Ethernet Cable, Harsh Environments, 350 MHz Enhanced Category 6, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio, AES51, RS-422, RJ-45 Compatible			
Physical Characteristics (Overall)				
Conductor AWG:				
# Pairs AWG Stranding Conductor Material Dia. (in.) 4 23 Solid BC - Bare Copper .022				
Total Number of Conductors:	8			
Insulation				
Insulation Material:				
Insulation MaterialWall Thickness (in.)Dia. (in.)PO - Polyolefin.009.038				
Inner Jacket Inner Jacket Material:				
Inner Jacket MaterialNom. Dia. (in.)PVC - Polyvinyl Chloride.365 x .165				
Inner Jacket Ripcord:	Yes			
Outer Shield Outer Shield Material: Outer Shield Material Unshielded				
Outer Jacket Outer Jacket Material: Outer Jacket Material Nom. Wall Thickness (in.)				
PVC - Polyvinyl Chloride .035 Outer Jacket Ripcord:	Yes			
Overall Cable				
Overall Nominal Diameter:	0.475 x 0.265 in.			
Pair				
Pair Color Code Chart: Number Color				
1 White/Blue Stripe & Blue				
2 White/Orange Stripe & Orange				
3 White/Green Stripe & Green				
4 White/Brown Stripe & Brown				
lechanical Characteristics (Overall)				
Installation Temperature Range:	-10°C To +75°C			
Operating Temperature Range:	-25°C To +75°C			
Bulk Cable Weight:	59 lbs/1000 ft.			
Max. Recommended Pulling Tension:	45 lbs.			
Min. Bend Radius/Minor Axis:	0.100 in.			

Detailed Specifications & Technical Data



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10

16

20

25

31.25

62.5

100

155

200

250

300

5.900

7.500

8.400

9.500

10.600

15.400

19.800

25.100

29.000

32.800

35.200

59.3

56.3

54.8

53.4

51.9

47.4

44.3

41.5

39.9

38.3

37.2

57.3

54.3

52.8

51.4

49.9

45.4

42.3

39.5

37.9

36.3

34.2

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pplicabl	e Specifications and	Agency Com	oliance (Ove	erall)			
	Standards & Environn	nental Programs					
NEC/(U	IL) Specification:			CM, UL444			
CEC/C	(UL) Specification:			СМ			
EU Dire	ective 2011/65/EU (ROHS II)	:	,	Yes			
EU Dire	ective 2000/53/EC (ELV):		•	Yes			
EU Dire	ective 2002/95/EC (RoHS):			Yes			
EU Rol	HS Compliance Date (mm/d	d/yyyy):		01/01/2004			
EU Dire	ective 2002/96/EC (WEEE):		,	Yes			
EU Dire	ective 2003/11/EC (BFR):		,	Yes			
CA Pro	op 65 (CJ for Wire & Cable):		,	Yes			
MII Ord	ler #39 (China RoHS):		,	Yes			
Flame Tes	it						
UL Fla	me Test:			UL1666 Riser			
CSA FI	ame Test:			FT1			
	on-Plenum						
Plenun	n (Y/N):		I	No			
VP (%) 70 Maximum D Delay (ns 510 @ 10	s/100 m) DOMHz						
25 Maximum C	vonductor DC Resistance: 20°C (Ohm/100 m)						
Maximum D	CR Unbalanced: palance @ 20°C (%)						
ectrical	Characteristics-Prer	nise (Overall)					
	ble Electrical Table 1:	(
	Hz) Max. Attenuation (dB/1		-	• •	-		
1	1.900	74.3	72.3	72.4	70.4	20.000	
4	3.700	65.3	63.3	61.6	59.6	23.000	
8	5.300	60.3	58.8	55.5	53.5	24.500	

53.4

48.7

46.4

43.9

41.2

32.0

24.5

16.3

10.8

5.5

0.7

51.4

46.7

44.4

41.9

39.2

30

22.5

14.3

10.0

3.5

0

25.000

25.000

25.000

24.300

23.600

21.500

21.000

21.000

21.000

18.000

18.000

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310	37.100	36.9	34.9	0	18.000
350	39.800	36.2	34.2		17.000
400	43.000	35.3	33.3		14.000
500	49.000	33.8	31.8		14.000

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 12	100 ± 15	67.8	64.8
4	100 ± 12	100 ± 15	55.7	52.7
8	100 ± 12	100 ± 15	49.7	46.7
10	100 ± 12	100 ± 15	47.8	44.8
16	100 ± 12	100 ± 8	43.7	40.7
20	100 ± 12	100 ± 8	41.7	38.7
25	100 ± 15	100 ± 8	39.8	36.8
31.25	100 ± 15	100 ± 8	37.9	34.9
62.5	100 ± 15	100 ± 8	31.8	28.8
100	100 ± 15	100 ± 8	27.8	24.8
155	100 ± 15	100 ± 8	23.9	20.9
200	100 ± 15	100 ± 8	21.7	18.7
250	100 ± 20	100 ± 8	19.8	16.8
300	100 ± 20	100 ± 8	18.2	15.2
310	100 ± 20	100 ± 8	17.9	14.9
350	100 ± 22	100 ± 8	16.9	13.9
400	100 ± 32	100 ± 8	15.7	12.7
500	100 ± 32	100 ± 8	13.8	10.8

Notes (Overall)

Notes: **Values above 350 MHz are information only

Notes (Cont'd.):

Operating temperatures are subject to length de-rating. Cable passes -25C Cold Bend per UL 1581.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
11872A 0081000	1,000 FT	66.000 LB	GRAY	С	4 PR #23 PP PVC PVC
11872A 0101000	1,000 FT	66.000 LB	BLACK	С	4 PR #23 PP PVC PVC

Notes:

C = CRATE REEL PUT-UP.

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