

ENGLISH MEASUREMENT VERSION

7930A Multi-Conductor - Category 5e DataTuff® Twisted Pair Cable



For more Information please call

1-800-Belden1



General Description:

24 AWG stranded (7x32) bare copper conductors, twisted pairs, polyolefin insulation, industrial grade sunlight- and oil-resistant PVC jacket. Sequential marking at two foot intervals.

Suitable Applications:	Industrial Ethernet, Harsh Environments, Flexible Applications, 200MHz Category 5e, Industrial Patch
	Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422, CMX - Outdoor, RJ-45 Compatible
hysical Characteristics (Overall)	
Conductor AWG:	
# PairsAWGStrandingConductor Material4247x32BC - Bare Copper	
Total Number of Conductors:	8
sulation Insulation Material:	
Insulation Material	
PO - Polyolefin	
Duter Shield	
Outer Shield Material Outer Shield Material	
Unshielded	
Duter Jacket	
Outer Jacket Material:	
Outer Jacket Material Nom. Wall Thicknes	is (in.)
Industrial Grade PVC - Polyvinyl Chloride .030	
overall Cable	
Overall Nominal Diameter:	0.240 in.
lair	
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	
echanical Characteristics (Overall)	
Installation Temperature Range:	-10°C To +75°C
Operating Temperature Range:	-25°C To +75°C
Bulk Cable Weight:	26 lbs/1000 ft.
Max. Recommended Pulling Tension:	25 lbs.
Min. Bend Radius/Minor Axis:	0.960 in.
	e (Overall)
oblicable Specifications and Adency Compliance	
pplicable Specifications and Agency Compliance pplicable Standards & Environmental Programs	
	CMR, CMX-Outdoor, UL444
pplicable Standards & Environmental Programs	CMR, CMX-Outdoor, UL444 CMR
pplicable Standards & Environmental Programs NEC/(UL) Specification:	
pplicable Standards & Environmental Programs NEC/(UL) Specification: CEC/C(UL) Specification:	CMR

Detailed Specifications & Technical Data



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EU Rol	IS Compliance Date (mm/dd/yy	ууу):	01/01	/2004					
EU Dire	ective 2002/96/EC (WEEE):		Yes						
EU Dire	active 2003/11/EC (BFR):		Yes						
	p 65 (CJ for Wire & Cable):		Yes						
	ler #39 (China RoHS):		Yes						
	Specification:		NEMA	A WC-63.1 Cate	gory 5e Patch, IG	CEA 661 Catego	ry 5 Patch, UL verifi	ied to Category 5e	
lame Tes									
UL Flar	ne Test:		UL16	66 Riser					
CSA FI	ame Test:		FT4						
IEEE FI	ame Test:		1202						
uitability									
Suitabi	lity - Indoor:		Yes						
Suitabi	lity - Outdoor:		Yes						
Sunligh	nt Resistance:		Yes						
Oil Res	istance:		Yes						
	on-Plenum								
Plenum			No						
	Characteristics (Overa	II)							
	I Capacitance:								
15	nce (pF/ft)								
	um Capacitance Unbalance (pF ocity of Propagation:	7/100 m):	330						
12 lax. Delay S Delay Sk 45 laximum C DCR @ 2 9.38	00MHz ny Skew: ew (ns/ft)								
Voltage 300 V RM	CR Unbalanced:								
Voltage 300 V RM									
Voltage 300 V RM laximum D DCR Unb 3	CR Unbalanced: palance @ 20°C (%)								
Voltage 300 V RM laximum D DCR Unt 3 ectrical	CR Unbalanced: palance @ 20°C (%) Characteristics-Premis	se (Overall)							
Voltage 300 V RM laximum D DCR Unk 3 ectrical remise Cal	CR Unbalanced: palance @ 20°C (%)		3) Min. PSNEXT (df	3) Min. ACR (d	B) Min. PSACR	(dB) Min RL (dl	B) Min. SRL (dB)		
Voltage 300 V RM laximum D DCR Unk 3 ectrical remise Cal	CR Unbalanced: palance @ 20°C (%) Characteristics-Premis ple Electrical Table 1:		B) Min. PSNEXT (db 62.3	 B) Min. ACR (d) 62.8 	B) Min. PSACR 59.8	(dB) Min RL (d	 B) Min. SRL (dB) 23.0 		
Voltage 300 V RM Jaximum D DCR Unb 3 ectrical remise Cal Freq. (MH 1 4	CR Unbalanced: palance @ 20°C (%) Characteristics-Premis ole Electrical Table 1: Hz) Max. Attenuation (dB/100 r 2.5 4.9	n) Min. NEXT (db 65.3 56.3	62.3 53.3	62.8 51.4	59.8 48.4	20.0 23.0	23.0 23.0		
Voltage 300 V RM laximum D DCR Unt 3 ectrical remise Cat Freq. (MH 1 4 8	CR Unbalanced: palance @ 20°C (%) Characteristics-Premis ole Electrical Table 1: 12) Max. Attenuation (dB/100 r 2.5 4.9 6.9	 m) Min. NEXT (db 65.3 56.3 51.8 	62.3 53.3 48.8	62.8 51.4 44.9	59.8 48.4 41.9	20.0 23.0 24.5	23.0 23.0 24.5		
Voltage 300 V RM laximum D DCR Unit 3 ectrical remise Cat Freq. (MH 1 4 8 10	CR Unbalanced: palance @ 20°C (%) Characteristics-Premis ble Electrical Table 1: 12) Max. Attenuation (dB/100 r 2.5 4.9 6.9 7.8	 Min. NEXT (db) 65.3 56.3 51.8 50.3 	62.3 53.3 48.8 47.3	62.8 51.4 44.9 42.5	59.8 48.4 41.9 39.5	20.0 23.0 24.5 25.0	23.0 23.0 24.5 25.0		
Voltage 300 V RM laximum D DCR Unt 3 ectrical remise Cal Freq. (MH 1 4 8 10 16	CR Unbalanced: palance @ 20°C (%) Characteristics-Premise ble Electrical Table 1: 12) Max. Attenuation (dB/100 r 2.5 4.9 6.9 7.8 9.9	 Min. NEXT (db 65.3 56.3 51.8 50.3 47.3 	62.3 53.3 48.8 47.3 44.3	62.8 51.4 44.9 42.5 37.4	59.8 48.4 41.9 39.5 34.4	20.0 23.0 24.5 25.0 25.0	23.0 23.0 24.5 25.0 25.0		
Voltage 300 V RM laximum D DCR Unit 3 ectrical remise Cat Freq. (MH 1 4 8 10	CR Unbalanced: palance @ 20°C (%) Characteristics-Premis ble Electrical Table 1: 12) Max. Attenuation (dB/100 r 2.5 4.9 6.9 7.8	 Min. NEXT (db) 65.3 56.3 51.8 50.3 	62.3 53.3 48.8 47.3	62.8 51.4 44.9 42.5	59.8 48.4 41.9 39.5	20.0 23.0 24.5 25.0	23.0 23.0 24.5 25.0		
Voltage 300 V RM laximum D DCR Unt 3 ectrical remise Cal Freq. (MH 1 4 8 10 16 20	CR Unbalanced: palance @ 20°C (%) Characteristics-Premis ole Electrical Table 1: 12) Max. Attenuation (dB/100 r 2.5 4.9 6.9 7.8 9.9 11.1	 Min. NEXT (db 65.3 56.3 51.8 50.3 47.3 45.8 	62.3 53.3 48.8 47.3 44.3 42.8	62.8 51.4 44.9 42.5 37.4 34.7	59.8 48.4 41.9 39.5 34.4 31.7	20.0 23.0 24.5 25.0 25.0 25.0	23.0 23.0 24.5 25.0 25.0 25.0 25.0		
Voltage 300 V RM laximum D DCR Unt 3 ectrical remise Cal Freq. (MH 1 4 8 10 16 20 25	CR Unbalanced: palance @ 20°C (%) Characteristics-Premis ole Electrical Table 1: 12) Max. Attenuation (dB/100 r 2.5 4.9 6.9 7.8 9.9 11.1 12.5	 Min. NEXT (dl 65.3 56.3 51.8 50.3 47.3 45.8 44.3 	62.3 53.3 48.8 47.3 44.3 42.8 41.3	62.8 51.4 44.9 42.5 37.4 34.7 21.8	59.8 48.4 41.9 39.5 34.4 31.7 28.8	20.0 23.0 24.5 25.0 25.0 25.0 24.3	23.0 23.0 24.5 25.0 25.0 25.0 25.0 24.3		
Voltage 300 V RM aximum D DCR Unt 3 ectrical remise Cal Freq. (MH 1 4 8 10 16 20 25 31.25	CR Unbalanced: balance @ 20°C (%) Characteristics-Premis ble Electrical Table 1: 42) Max. Attenuation (dB/100 r 2.5 4.9 6.9 7.8 9.9 11.1 12.5 14.1	 Min. NEXT (dl 65.3 56.3 51.8 50.3 47.3 45.8 44.3 42.9 	62.3 53.3 48.8 47.3 44.3 42.8 41.3 39.9	62.8 51.4 44.9 42.5 37.4 34.7 21.8 28.8	59.8 48.4 41.9 39.5 34.4 31.7 28.8 25.8	20.0 23.0 24.5 25.0 25.0 25.0 24.3 23.6	23.0 23.0 24.5 25.0 25.0 25.0 24.3 23.6		

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200	38.9	30.8	27.8			15.0	Τ
mise Cable	Electrical Table 2:						
Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	e Min. ELFEXT (dB)	Min. PSELFEX	T (dB)		
1	100 ± 15	100 ± 15	63.8	60.8			
4	100 ± 15	100 ± 15	51.7	48.7			
8	100 ± 15	100 ± 15	45.7	42.7			
10	100 ± 15	100 ± 15	43.8	40.8			
16	100 ± 15	100 ± 15	39.7	36.7			
20	100 ± 15	100 ± 15	37.7	34.7			
25	100 ± 15	100 ± 15	35.8	32.8			
31.25	100 ± 15	100 ± 15	33.9	30.9			
62.5	100 ± 15	100 ± 15	27.8	24.8			
100	100 ± 15	100 ± 15	23.8	20.8			
155	100 ± 25	100 ± 15	19.9	16.9			
200	100 ± 25	100 ± 15	17.7	14.7			

Notes (Overall)

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

Notes (Cont'd.):	T568A Plug Compatible Part Number: R301603 T568B Plug Compatible Part Number: R301604

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7930A 0101000	1,000 FT	29.000 LB	BLACK	С	4 PR #24 PP PVC
7930A 0102000	2,000 FT	56.000 LB	BLACK	С	4 PR #24 PP PVC

Notes: C = CRATE REEL PUT-UP.

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