



Part Number: 7924A

Cat 5e Flex DataTuff\$, (4 pr) 24 AWG (7x32) TC, PO/PVC, CMR, CMX-Outdoor

Product Description

Four Cat 5e 24 AWG Bonded-Pairs stranded (7x32) tinned copper conductors, polyolefin insulation, PVC jacket.

Product Specifications

Technical Specifications

Suitable Applications:	Industrial Ethernet Cable, Harsh Environments, 350MHz Enhanced Category 5e, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio, AES51, RS-422, CMX - Outdoor, RJ-45 Compatible, Flexible Applications
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Construction and Dimensions

Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Pairs	
24	7x32	TC - Tinned Copper	0.022 in	4	
Total Nun	nber of Conductors	:	8		

Insulation:

Material	Nominal Diameter	Nominal Wall Thickness
PO - Polyolefin	0.042 in	0.008 in

Color Chart 1:

Number	Color			
1	/hite/Orange Stripe & Orange			
2	White/Blue Stripe & Blue			
3	White/Green Stripe &: Green			
4	White/Brown Stripe & amp; Brown			

Outershield 1:

Material	
Unshielded	

Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness
Industrial Grade PVC - Polyvinyl Chloride	0.242 in	0.03 in

Electrical Characteristics

Conductor DCR:

Max. Conductor DCR	Max. DCR Unbalance
g Ohm/1000ft	3 %

Capacitance:

Max. Capacitance Unbalance	Nom.Mutual Capacitance
66 pF/ft	15 pF/ft

Delay:

Max. Delay	Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]
510 ns/100m	25 ns/100m	70 %

High Freq:

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance
1 MHz	2.4 db/100m	65.3 dB	65.3 dB	62.9 dB	63.8 dB	60.8 dB	20 dB	100 ± 12 Ohm	
4 MHz	4.8 db/100m	56.3 dB	56.3 dB	51.5 dB	51.7 dB	48.7 dB	23 dB	100 ± 12 Ohm	
8 MHz	6.8 db/100m	51.8 dB	51.8 dB	45 dB	45.7 dB	42.7 dB	24.5 dB	100 ± 12 Ohm	
10 MHz	7.7 db/100m	50.3 dB	50.3 dB	42.6 dB	43.8 dB	40.8 dB	25 dB	100 ± 12 Ohm	
16 MHz	9.7 db/100m	47.3 dB	47.3 dB	37.5 dB	39.7 dB	36.7 dB	25 dB	100 ± 12 Ohm	
20 MHz	11 db/100m	45.8 dB	45.8 dB	34.8 dB	37.7 dB	34.7 dB	25 dB	100 ± 12 Ohm	
25 MHz	12.4 db/100m	44.3 dB	44.3 dB	31.9 dB	35.8 dB	32.8 dB	24.3 dB	100 ± 15 Ohm	
31.25 MHz	13.9 db/100m	42.9 dB	42.9 dB	29 dB	33.9 dB	30.9 dB	23.6 dB	100 ± 15 Ohm	
62.5 MHz	20.2 db/100m	38.4 dB	38.4 dB	18.3 dB	27.8 dB	24.8 dB	21.5 dB	100 ± 15 Ohm	
100 MHz	26 db/100m	35.3 dB	35.3 dB	9.2 dB	23.8 dB	20.8 dB	20.1 dB	100 ± 18 Ohm	100 ± 10 Ohm
155 MHz	33.2 db/100m	32.5 dB	32.5 dB	o dB	19.9 dB	16.9 dB	19 dB	100 ± 18 Ohm	100 ± 10 Ohm
200 MHz	38.4 db/100m	30.8 dB	30.8 dB		17.7 dB	14.7 dB	19 dB	100 ± 20 Ohm	100 ± 10 Ohm
250 MHz	43.7 db/100m	29.3 dB	29.3 dB		15.8 dB	12.8 dB	18 dB	100 ± 20 Ohm	100 ± 10 Ohm
300 MHz	48.6 db/100m	28.2 dB	28.2 dB		14.2 dB	11.2 dB	18 dB	100 ± 20 Ohm	100 ± 10 Ohm
310 MHz	49.5 db/100m	27.9 dB	27.9 dB		13.9 dB	10.9 dB	18 dB	100 ± 20 Ohm	100 ± 10 Ohm
350 MHz	53.2 db/100m	27.2 dB	27.2 dB		12.9 dB	9.9 dB	17 dB	100 ± 22 Ohm	100 ± 10 Ohm
1 MHz									
4 MHz									
8 MHz									
10 MHz									
16 MHz									
20 MHz									
25 MHz									
31.25 MHz									
62.5 MHz									
100 MHz									
155 MHz									
200 MHz									
250 MHz									
300 MHz									
310 MHz									
350 MHz									

Voltage:

UL Voltage Rating	
300 V RMS	

Use

Suitability - Oil Resistance:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	40 lbs

Safety

CSA Flammability:	FT4
UL Flammability:	UL1666 Riser

Temperature Range

Installation Temp Range:	-25°C To +75 °C
Operating Temp Range:	-40°C To +75°C
Storage Temp Range:	-25°C To +75 °C

Mechanical Characteristics

Min Bend Radius/Minor Axis:	0.25 in
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Part Number

Plenum (Y/N):	No
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Standards

ISO/IEC Compliance:	Other Standards	
Telecommunications Standards:	Telecommunications Standards	
CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)	
CEC/C(UL) Specification:	CEC/C(UL) Specification	
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)	
NEC/(UL) Specification:	NEC/(UL) Specification	
Other Specification:	Other Specification	
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)	

History

Notes:	US Patents 5, 606, 151; 5, 734, 126; 5, 763, 823. EtherNet/IP is a trademark of ControlNet Internation, Ltd. under license by Open DeviceNet Vendor Association, Inc. Operating temperatures are subject to length de-rating. Cable passes -40C Cold Bend per UL 1581.
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Product Variants

Part Number	Color	Put-Up Type	Length
7924A 0021000	RED	Reel	1000 ft
7924A 0061000	BLUE	Reel	1000 ft
7924A 0081000	GRAY	Reel	1000 ft
7924A 0101000	BLACK	Reel	1000 ft
7924A 0102000	BLACK	Reel	2000 ft
7924A 1NH1000	TEAL	Reel	1000 ft

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