ENGLISH MEASUREMENT VERSION



7937A Multi-Conductor - DataTuff® Waterblocked Cate 5e Cable



For more Information please call

1-800-Belden1



Description:

24 AWG solid bare copper conductors, twisted pairs, polyolefin insulation, polymer gel waterblocked, inner LLPE jacket, overall Beldfoil shield (100% coverage), 24 AWG stranded TC drain wire, industrial grade sunlight- and oil-resistant LLPE jacket.

Usage (Overall)

Suitable Applications:

Industrial Ethernet Cable, Harsh Environments, 100MHz Category 5e, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio, RS-422, CMX - Outdoor, RJ-45 Compatible, Noisy Environments

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
4	24	Solid	BC - Bare Copper

Insulation

Insulation Material:

Insulation Material PO - Polyolefin

Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (in.)
LLPE - Linear Low Density Polyethylene	0.215

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire AWG:

		Drain Wire Conductor Material		
24	7x32	TC - Tinned Copper		

Outer Jacket

Outer Jacket Material:

Outer Jacket Material

LLPE - Linear Low Density Polyethylene

Outer Jacket Ripcord: No

Overall Cable

Overall Nominal Diameter: 0.276 in.

Pair

Pair Color Code Chart:

Number Color		
1	White/Blue Stripe & Blue	
2	White/Orange Stripe & Orange	
3	White/Green Stripe & Green	





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White/Brown Stripe & Brown

Me	Mechanical Characteristics (Overall)					
	Installation Temperature Range:	-25°C To +75°C				
	Operating Temperature Range:	-40°C To +75°C				
	Bulk Cable Weight:	33 lbs/1000 ft.				
	Max. Recommended Pulling Tension:	40 lbs.				
	Min. Bend Radius (Install)/Minor Axis:	2.750 in.				

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

Other Standards:	11801 Category 5
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Other Specification:	NEMA WC-63.1 Category 5e
uitability	
Suitability - Outdoor:	Yes

Su

uitability		
Suitability - Outdoor:	Yes	
Suitability - Burial:	Yes - Telcordia, IEC, ICEA	
Sunlight Resistance:	Yes - UL	
Oil Resistance:	Yes - UL	
Non-halogenated:	Yes	
lenum/Non-Plenum		

Ple

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/ft)

Maximum Capacitance Unbalance (pF/100 m): 330

Nominal Velocity of Propagation:

VP (%) 70

Maximum Delay:

Delay (ns/100 m) 538 @ 100MHz

Max. Delay Skew:

Delay Skew (ns/100 m) 45

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)

Max. Operating Voltage - UL:

Voltage



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300 V RMS

Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%) 3

Electrical Characteristics-Premise (Overall)

Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min RL (dB)	Min. SRL (dB)
1	2.0	65.3	62.3	63.0	60.0	20.0	23
4	4.1	56.3	53.3	51.0	49.0	23.0	23.0
8	5.8	51.8	48.8	46.0	43.0	24.5	24.5
10	6.5	50.3	47.3	43.0	41.0	25.0	25.0
16	8.2	47.3	44.3	39.0	36.0	25.0	25.0
20	9.3	45.8	42.8	36.5	33.5	25.0	25.0
25	10.4	44.3	41.3	33.9	30.9	24.3	24.3
31.25	11.7	42.9	39.9	31.0	28.0	23.6	23.6
62.5	17.0	38.4	35.4	22.0	19.0	21.5	21.5
100	22.0	35.3	32.3	14.0	11.0	20.1	20.1

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (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

Notes (Overall)

Notes: Operating temperatures are subject to length de-rating. Cable passes -40°C Cold Bend per UL 1581. Sequential marking at two foot intervals. Polymer gel waterblocking material.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7937A 0101000	1,000 FT	37.000 LB	BLACK		4 PR #24 P0 GEL LLDP0 FS LLDP0

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