METRIC MEASUREMENT VERSION



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



For more Information please call

1-800-Belden1



General 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:

	AWG	Stranding	Conductor Material
4	24	Solid	BC - Bare Copper

Total Number of Conductors: 8

Insulation

Insulation Material:

Insulation MaterialPO - Polyolefin

Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (mm)
LLPE - Linear Low Density Polyethylene	5.461

Outer Shield

Outer Shield Material:

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

Outer Shield Drain Wire AWG:

AWG	Stranding	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: 7.010 mm

Pair

Pair Color Code Chart:

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

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3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Med	Mechanical Characteristics (Overall)					
	Installation Temperature Range:	-25°C To +75°C				
	Operating Temperature Range:	-40°C To +75°C				
	Bulk Cable Weight:	49.111 Kg/Km				
	Max. Recommended Pulling Tension:	177.928 N				
	Min. Bend Radius/Minor Axis:	69.850 mm				

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

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

Ple

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/m) 49.215

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)

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)

Max. Operating Voltage - UL:

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Voltage

Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)

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.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7937A 0101000	305 MT	16.783 KG	BLACK		4 PR #24 P0 GEL LLDP0 FS LLDP0

Test Reports

i) UL Test Reports are available on-line through the UL Client Document Access web portal. ii) UL Inspection Reports are also available through the UL Client Document Access web portal.

b) CŚA

i) CSA "Descriptive Report and Test Results" documents are available on the CSA Gateway Portal.
ii) CSA Inspection Reports are maintained on the CSA issued 'flash drive' at each manufacturing location.

Revision Date: 12-07-2011 Revision Number: 1

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^{*} other test data may be available if requested at time of order.

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