

7929A Multi-Conductor - Category 5e DataTuff® Twisted Pair Cable



For more Information  
please call  
1-800-Belden1



**Description**

24 AWG Bonded-Pairs solid bare copper conductors, polyolefin insulation, overall Beldfoil® shield (100% coverage), industrial grade sunlight- and oil-resistant PVC jacket, drain wire, rip cord. Sequential marking at two foot intervals

**Suitable Applications (Overall):**

Suitable Applications

Industrial Ethernet Cable, Harsh Environments, 200MHz Category 5e, Industrial Ethernet, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio, AES51, RS-422, Noisy Environments, CMX - Outdoor, RJ-45 Compatible

**Physical Characteristics (Overall):**

**Conductor:**

AWG

# Pairs	AWG	Stranding	Conductor Material
4.000	24	Solid	BC - Bare Copper

**Insulation:**

Insulation Material

Insulation Material	Wall Thickness (in.)
PO - Polyolefin	0.010

**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

AWG	Stranding	Drain Wire Conductor Material
24	7x32	TC - Tinned Copper

**Outer Jacket:**

Outer Jacket Material

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord

No

**Overall Cabling:**

Overall Nominal Diameter:

.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

**Mechanical Characteristics (Overall):**

Operating Temperature Range -40°C To +75°C

Installation Temperature Range -25°C To +75°C

Bulk Cable Weight: 32 lbs/1000 ft.

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Max. Recommended Pulling Tension:	35 lbs.
Min. Bend Radius (Install)/Minor Axis:	0.500 in.

**Applicable Specifications and Agency Compliance (Overall):**

**Applicable Standards:**

NEC/(UL) Specification	CMR, CMX-Outdoor, UL444
CEC/C(UL) Specification	CMR
IEC Specification	11801 Category 5
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy)	01/01/2004
PMSHA Specification	P-07-KA060003
TIA/EIA Specification	568-B.2 Category 5e
Other Specification	NEMA WC-63.1 Category 5e, UL verified to Category 5e

**Flame Test:**

UL Flame Test	UL1666 Riser
CSA Flame Test	FT4

**Suitability:**

Suitability - Outdoor	Yes
Sunlight Resistance	Yes
Oil Resistance	Yes

**Plenum/Non-Plenum:**

Plenum (Y/N)	No
Plenum Number	1533P
Non-Plenum Number	1533R

**Electrical Characteristics (Overall):**

Nom. Mutual Capacitance

<b>Capacitance (pF/ft)</b>
15.000

Nominal Velocity of Propagation

<b>VP (%)</b>
70

Maximum Capacitance Unbalance (pF/100 m) 330

Maximum Delay

<b>Delay (ns/100 m)</b>
538 @ 100MHz

Max. Delay Skew

<b>Delay Skew (ns/100 m)</b>
45

Maximum Conductor DC Resistance

<b>DCR @ 20°C (Ohm/100 m)</b>
9.380

Max. Operating Voltage - UL

<b>Voltage</b>
300 V RMS

Maximum DCR Unbalanced

<b>DCR Unbalance @ 20°C (%)</b>
3.000

**Electrical Characteristics-Premise (Overall):**

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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	2.000	65.300	62.300	63.000	60.000	20.000	23
4	4.100	56.300	53.300	51.000	49.000	23.000	23.000
8	5.800	51.800	48.800	46.000	43.000	24.500	24.500
10	6.500	50.300	47.300	43.000	41.000	25.000	25.000
16	8.200	47.300	44.300	39.000	36.000	25.000	25.000
20	9.300	45.800	42.800	36.500	33.500	25.000	25.000
25	10.400	44.300	41.300	33.900	30.900	24.300	24.300
31.250	11.700	42.900	39.900	31.000	28.000	23.600	23.600
62.500	17.000	38.400	35.400	22.000	19.000	21.500	21.500
100	22.000	35.300	32.300	14.000	11.000	20.100	20.100
200	32.400		27.800		1.000		15.000

Premise Cable Electrical Table 2

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	100 ± 15	63.800	60.800
4	100 ± 15	100 ± 15	51.700	48.700
8	100 ± 15	100 ± 15	45.700	42.700
10	100 ± 15	100 ± 15	43.800	40.800
16	100 ± 15	100 ± 15	39.700	36.700
20	100 ± 15	100 ± 15	37.700	34.700
25	100 ± 15	100 ± 15	35.800	32.800
31.250	100 ± 15	100 ± 15	33.900	30.900
62.500	100 ± 15	100 ± 15	27.800	24.800
100	100 ± 15	100 ± 15	23.800	20.800
200	100 ± 25			14.700

Notes (Overall):

Notes US Patent #'s 5, 606, 151; 5, 734, 126. Operating temperatures are subject to length de-rating. Cable passes -40C Cold Bend per UL 1581.

PUT UPS AND COLORS:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7929A 0061000	1,000 FT	37.000 LB	BLUE, LIGHT	C	4 PR #24 PP FS PVC BLULT
7929A 0101000	1,000 FT	37.000 LB	BLACK	C	4 PR #24 PP FS PVC BLK
7929A 0102000	2,000 FT	72.000 LB	BLACK	C	4 PR #24 PP FS PVC BLK

Notes:

C = CRATE REEL PUT-UP.

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