Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



7919A Multi-Conductor - Category 5e DataTuff® Twisted Pair Cable



For more Information please call

1-800-Belden1



General Description:

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

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 Solid BC - Bare Copper **Total Number of Conductors:** 8 Insulation Insulation Material: Insulation Material | Wall Thickness (in.) PO - Polyolefin .010 **Outer Shield Outer Shield Material:** Outer Shield Trade Name Type Outer Shield Material 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** Industrial Grade PVC - Polyvinyl Chloride Outer Jacket Ripcord: No **Overall Cable Overall Nominal Diameter:** 0.265 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)

Installation Temperature Range:	-25°C To +75°C
Operating Temperature Range:	-40°C To +75°C
Bulk Cable Weight:	30 lbs/1000 ft.
Max. Recommended Pulling Tension:	25 lbs.
Min. Bend Radius/Minor Axis:	1 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR, CMX-Outdoor, UL444

Page 1 of 3 09-11-2017

Detailed Specifications & Technical Data





7919A Multi-Conductor - Category 5e DataTuff® Twisted Pair Cable

CMR
Yes
Yes
Yes
01/01/2004
Yes
Yes
Yes
Yes
P-07-KA060004
NEMA WC-63.1 Category 5e, UL verified to Category 5e
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Applicable Patents:

Country www.belden.com/p

Flame Test **UL Flame Test:** UL1666 Riser **CSA Flame Test:** FT4 IEEE Flame Test: 1202 Suitability Suitability - Outdoor: Yes Sunlight Resistance: Yes Oil Resistance: Plenum/Non-Plenum Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/ft)

Maximum Capacitance Unbalance (pF/100 m):

330

Nominal Velocity of Propagation:

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:

Voltage 300 V RMS

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

Page 2 of 3 09-11-2017

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



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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.

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
7919A 0061000	1,000 FT	35.000 LB	BLUE, LIGHT	С	4 PR #24 PP FS PVC
7919A 0101000	1,000 FT	35.000 LB	BLACK	С	4 PR #24 PP FS PVC
7919A 01010000	10,000 FT	360.000 LB	BLACK	С	4 PR #24 PP FS PVC
7919A 0102000	2,000 FT	64.000 LB	BLACK	С	4 PR #24 PP FS PVC
7919A 0105000	5,000 FT	160.000 LB	BLACK	С	4 PR #24 PP FS PVC

Notes: C = CRATE REEL PUT-UP.

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Page 3 of 3