

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

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



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Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7919A 0061000	305 MT	15.876 KG	BLUE, LIGHT	C	4 PR #24 PP FS PVC
7919A 0101000	305 MT	15.876 KG	BLACK	C	4 PR #24 PP FS PVC
7919A 0102000	610 MT	30.844 KG	BLACK	C	4 PR #24 PP FS PVC

Notes:

C = CRATE REEL PUT-UP.

Suitable Applications (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	Wall Thickness (mm)
PO - Polyolefin	0.254

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

Industrial Grade PVC - Polyvinyl Chloride

Outer Jacket Ripcord: No**Overall Cabling****Overall Nominal Diameter:** 6.731 mm**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:** 44.646 Kg/Km**Max. Recommended Pulling Tension:** 111.205 N**Min. Bend Radius (Install)/Minor Axis:** 25.400 mm**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-KA060004**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**Electrical Characteristics (Overall)****Nom. Mutual Capacitance:**

Capacitance (pF/m)

49.215

Nominal Velocity of Propagation:**VP (%)**

70

Maximum Capacitance Unbalance (pF/100 m): 330**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)**

9.38

Max. Operating Voltage - UL:**Voltage**

300 V RMS

Maximum DCR Unbalanced:**DCR Unbalance @ 20°C (%)**

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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.
