

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

Isage (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
hysical Characteristics (O	verall)
Conductor AWG:	
# Pairs AWG Stranding Conc	
	Bare Copper
Total Number of Conductors:	8
Insulation Insulation Material: Insulation Material Wall Thick	kness (in.)
PO - Polyolefin .010	
Outer Shield	
Outer Shield Material:	a Outer Shield Metadel Courses (0/)
Outer Shield Trade Name Typ Beldfoil® Tap	Outer Shield Material     Coverage (%)       De Aluminum Foil-Polyester Tape     100
Outer Shield Drain Wire AWG:	
AWG Stranding Drain Wire Co	onductor Material
24 7x32 TC - Tinned C	Copper
Outer Jacket	
Outer Jacket Material:	
Outer Jacket Material	
Industrial Grade PVC - Polyvinyl	I Chloride
Outer Jacket Ripcord:	No
Overall Cable	
<b>Overall Nominal Diameter:</b>	0.265 in.
Pair	
Pair Color Code Chart:	
Number         Color           1         White/Blue Stripe & Blue	
2 White/Orange Stripe &	
3 White/Green Stripe & C	Green
4 White/Brown Stripe & B	Brown
lechanical Characteristics	(Overall)
Installation Temperature Range	
Operating Temperature Range:	
Bulk Cable Weight:	30 lbs/1000 ft.
Max. Recommended Pulling Te	ension: 25 lbs.
Min. Bend Radius/Minor Axis:	1 in.
policable Specifications	nd Aganay Camplianaa (Ovarall)
Applicable Specifications an Applicable Standards & Enviro	Ind Agency Compliance (Overall)

# **Detailed Specifications & Technical Data**



## ENGLISH MEASUREMENT VERSION

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

CEC/C(UL) Specification:	CMR
EU Directive 2011/65/EU (ROHS II):	Yes
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
PMSHA Specification:	P-07-KA060004
Other Specification:	NEMA WC-63.1 Category 5e, UL verified to Category 5e
Applicable Patents: Country www.belden.com/p	
lame Test UL Flame Test:	UL1666 Riser
CSA Flame Test:	FT4
IEEE Flame Test:	1202
uitability Suitability - Outdoor:	Yes
Sunlight Resistance:	
-	Yes
Oil Resistance:	Yes
enum/Non-Pienum	
lenum/Non-Plenum Plenum (Y/N):	No
Plenum (Y/N): ectrical Characteristics (Overall) om. Mutual Capacitance: Capacitance (pF/ft) 15 Maximum Capacitance Unbalance (pF/100 m):	No 330
Plenum (Y/N): ectrical Characteristics (Overall) om. Mutual Capacitance: Capacitance (pF/ft) 15	
Plenum (Y/N): ectrical Characteristics (Overall) om. Mutual Capacitance: Capacitance (pF/ft) 15 Maximum Capacitance Unbalance (pF/100 m): ominal Velocity of Propagation: VP (%) 70 aximum Delay: Delay (ns/100 m) 538 @ 100MHz ax. Delay Skew:	
Plenum (Y/N): ectrical Characteristics (Overall) om. Mutual Capacitance: Capacitance (pF/ft) 15 Maximum Capacitance Unbalance (pF/100 m): ominal Velocity of Propagation: VP (%) 70 aximum Delay: Delay (ns/100 m) 538 @ 100MHz ax. Delay Skew: Delay Skew (ns/100 m) 45	
Plenum (Y/N): ectrical Characteristics (Overall) om. Mutual Capacitance: Capacitance (pF/ft) 15 Maximum Capacitance Unbalance (pF/100 m): ominal Velocity of Propagation: VP (%) 70 aximum Delay: Delay (ns/100 m) 538 @ 100MHz ax. Delay Skew: Delay Skew: Delay Skew: Delay Skew (ns/100 m) 45 aximum Conductor DC Resistance: DCR @ 20°C (Ohm/100 m) 9.38	
Plenum (Y/N): ectrical Characteristics (Overall) om. Mutual Capacitance: Capacitance (pF/ft) 15 Maximum Capacitance Unbalance (pF/100 m): ominal Velocity of Propagation: VP (%) 70 aximum Delay: Delay (ns/100 m) 538 @ 100MHz ax. Delay Skew: Delay Skew: Delay Skew (ns/100 m) 45 aximum Conductor DC Resistance: DCR @ 20°C (Ohm/100 m)	

### 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

# **Detailed Specifications & Technical Data**



### ENGLISH MEASUREMENT VERSION

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

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.

#### 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.

Revision Number: 6 Revision Date: 05-30-2014

© 2015 Belden, Inc All Rights Reserved.

All Rights Reserved. Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein. All sales of Belden products are subject to Belden's standard terms and conditions of sale. Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information and belief at the date of its publication. The information provided in this Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided of the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.