Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

NEC/(UL) Specification:

9927 Multi-Conductor - Low-Capacitance Computer Cable for EIA RS-232/423





Description:

24 AWG stranded (7x32) TC conductors, Datalene® insulation, overall Beldfoil® (100% coverage) + TC braid shield (65% coverage), drain wire, PVC jacket.

Conductor AWG: # 0 7x32 TC-Tinned Copper Insulation Insulation Material: Insulation Trade Name Insulation Material DataBane® FPE - Foam Polyethylene Outer Shield Material: Insulation Trade Name Insulation Material DataBane® FPE - Foam Polyethylene Outer Shield Material: Insulation Wire AWG: Insulation Wire Awg Insulation	Physical Characteristics (Over								
AWG: # 24 7x32 TC-Tinned Copper Insulation TC-Tinned Copper Insulation FPE - Foam Polyethylene Outer Shield TC-Tinned Copper 0 Exel at a for a f	Physical Characteristics (Over	all)							
4 24 7x32 TC - Tinned Copper Insulation Insulation Trade Name Insulation Material Datalence IPE - Feam Polyethylene Outer Shield Material Coverage (%) 1 Beldfoll/8 (Z-Fold/8) Braid TC - Tinned Copper 65 Outer Shield Drain Wire AWG: AWG Stranding Drain Wire Conductor Material 2 Stranded TC - Tinned Copper 65 Outer Shield Drain Wire Conductor Material 2 Stranded TC - Tinned Copper 65 Outer Jacket Material: Outer Jacket Material: Overall Cabling Overall Cabling Overall Cabling Overall Cabling Color Code Chart: Number Color 2 Winke 3 2 20 in. Mumber Color 2 Overall Nominal Diameter: 0.230 in. 2 20 20 20 20 20 20 20 20 20 20 20 <td< th=""><th></th><th></th><th></th><th></th></td<>									
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Min. Bend Radius (Install)/Minor Axis: 2.300 in. Applicable Specifications and Agency Compliance (Overall)	UL Temperature Rating:	UL Temperature Rating: 80°C (UL AWM Style 2919)							
Applicable Specifications and Agency Compliance (Overall)	Bulk Cable Weight:	30 lbs/1000 ⁴	ft.						
	Min. Bend Radius (Install)/Minor	Axis: 2.300 in.							
	Applicable Specifications and	Agency Compliance (Or	verall)						
Applicable Standards & Environmental Programs	Applicable Standards & Environ								

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Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

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9927 Multi-Conductor - Low-Capacitance Computer Cable for EIA RS-232/423

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CEC/C(UL) Specification:	СМ
AWM Specification:	UL Style 2919 (30 V 80°C)
EU CE Mark:	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
Flame Test	
UL Flame Test:	UL1685 UL Loading
Plenum/Non-Plenum	
Plenum (Y/N):	No
Electrical Characteristics (Overall)	
Nom. Inductance:	
Inductance (μΗ/ft) .21	
Nom. Capacitance Conductor to Conductor:	
Capacitance (pF/ft)	
12	
Nom. Capacitance Cond. to Other Conductor & Sh	ield:
Capacitance (pF/ft) 22	
Nominal Velocity of Propagation:	
VP (%) 78	
Nom. Conductor DC Resistance:	
DCR @ 20°C (Ohm/1000 ft) 24	
Nominal Outer Shield DC Resistance:	
DCR @ 20°C (Ohm/1000 ft) 5.31	
Max. Operating Voltage - UL:	
30 V RMS (UL AWM Style 2919) 300 V RMS	
Max. Recommended Current:	
Current	
1.8 Amps per conductor @ 25°C	
Notes (Overall)	
Notes:	d arush resistance and light weight
handling. Physical properties include good	a crush resistance and light weight.

Put Ups and Colors:

	Item #	Putup	Ship Weight	Color	Notes	Item Desc
	9927 060100	100 FT	3.600 LB	CHROME		4 #24 FHDPE SH PVC
ľ	9927 0601000	1,000 FT	32.000 LB	CHROME	С	4 #24 FHDPE SH PVC

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

9927 Multi-Conductor - Low-Capacitance Computer Cable for EIA RS-232/423

9927 060500	500 FT	14.500 LB	CHROME	С	4 #24 FHDPE SH PVC

Notes: C = CRATE REEL PUT-UP.

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Introduction

Belden® multi-conductor cables are manufactured in a wide variety of gage sizes, dimensions, insulation materials, shielding configurations, and jacketing materials including Plenum and High-Temperature versions. These cables meet the technical requirements of many different types of systems. In fact, Belden offers one of the broadest lines of UL Listed, NEC and CEC multi-conductor cables available from any single source.

Applications for multi-conductor cables include computers, communications, instrumentation, sound, control, audio, and data transmission. Each of these cables is designed to protect signal integrity under critical conditions by reducing hum, noise, and crosstalk.

To assist you in selecting the proper cable for your application, both the suggested working voltages and the maximum temperature ratings are indicated for each applicable product in this section.

Most of our multi-conductor cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a multi-conductor cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

Multi-Conductor Cables Packaging

BELDEN

Belden's unique UnReel® cable dispenser is available for many of the multi-conductor products listed in this section. The letter "U" before the specified put-up length denotes UnReel packaging.

Selection Guide

Shielded Multi-Conductor Computer Cables for RS-232 Applications

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			Cable			
Specifica	tions		9925	9608	9533	9939
Conductor Si	ze:	28				
(AWG)		24	1	1	1	
		22				1
		20				
		18				
	Pac	ge No.	4.18	4.17	4.11	4.19
Insulation:	S-R PVC	, 		1	1	1
	Polyethylene					
	Polypropylen	e				
	Datalene [®] [†]		1			
Shield:	Overall Foil				1	
	Drain Wire		1		1	
	Overall Foil/B	raid	1	1		1
	Braid Covera		65%	65%		65%
Drain Wire O			Yes	No	Yes	No
No. of Cond.	Available:	1				
		2				
		3	1	1	1	1
		4	1	1	1	1
		5	1	1	1	1
		6	1	1	1	1
		7	1	1	1	1
		8	1	1	1	1
		9	1	1	1	1
		10	1	1	1	1
		11				
		12				
		13				
		15	1	1	1	1
		17				
		18				
		19				
		20			1	
		25	1	1	1	1
		27				
		30			1	
		31				
		37	1	1		1
		40			1	
		50		1	1	1
Capacitance	** (pF/ft.)		12.0	30.0	30.0	35.0

*All cables are LII -listed

**Capacitance may vary on some cables [†]Foam high density polyethylene.

Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-423 Applications

	Part	UL NEC/	No.	Color	Standar	d Lengths	Stan Unit V	dard Veight	Nomi	nal OD	Nomin	al DCR	Nom. Vel.	Non	Nominal Capacitance		ance **
Description	No.	C(UL) CEC Type	of Cond.	Code	Ft.	m	Lbs.	kg	Inch	mm	Cond.	Shield	of Prop.	pF/ Ft.	pF/ m	pF/ Ft.	pF/ m
24 AWG Stranded (7)	(32) T	C Conduct	ors • (Overall Be	eldfoil® (*	100% Co	overage	e) + T(C Bra	id Shie	eld (65% C	Coverage)	• Drair	n Wir	ett		
Datalene [®] Insulation	ı • Ch	rome PV() Jac	ket													
UL AWM Style 2919 (30V 80°C)	9925	NEC: CM CEC: CM	3	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	3.5 12.0 24.0	1.6 5.5 10.9	.215	5.46	24.0Ω/M′ 78.7Ω/km	5.2Ω/M′ 17.0Ω/km	78%	12	39.4	22	72.2
Z-Fold®	9927	NEC: CM CEC: CM	4	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	3.6 14.5 32.0	1.6 6.6 14.5	.230	5.84	24.0Ω/Μ΄ 78.7Ω/km	5.3Ω/Μ΄ 17.4Ω/km	78%	12	39.4	22	72.2
	9929	NEC: CM CEC: CM	5	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.0 16.0 36.0	1.8 7.3 16.3	.246	6.25	24.0Ω/Μ΄ 78.7Ω/km	4.2Ω/M′ 13.9Ω/km	78%	12	39.4	22	72.2
	9931	NEC: CM CEC: CM	6	See Chart 1 (Tech Info Section)	100 500 1000 10000	30.5 152.4 304.8 3048.0	4.2 17.5 39.0 410.0	1.9 8.0 17.7 186.1	.265	6.73	24.0Ω/Μ΄ 78.7Ω/km	4.4Ω/M′ 14.4Ω/km	78%	12	39.4	22	72.2
	9932	NEC: CM CEC: CM	7	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.5 18.5 41.0	2.0 8.4 18.6	.265	6.73	24.0Ω/Μ΄ 78.7Ω/km	4.4Ω/M′ 14.4Ω/km	78%	12	39.4	22	72.2
	9933	NEC: CM CEC: CM	8	See Chart 1 (Tech Info Section)	100 500 1000 10000†	30.5 152.4 304.8 3048.0	4.9 21.0 46.0 480.0	2.2 9.6 20.9 217.9	.280	7.11		4.4Ω/M′ 14.4Ω/km	78%	12	39.4	22	72.2
	9934	NEC: CM CEC: CM	9	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	5.2 22.0 48.0	2.4 10.0 21.8	.300	7.62	24.0Ω/M′ 78.7Ω/km	3.9Ω/M′ 12.6Ω/km	78%	12	39.4	22	72.2
	9935	NEC: CM CEC: CM	10	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	5.7 28.0 53.0	2.6 12.7 24.1	.306	7.77	24.0Ω/Μ′ 78.7Ω/km	3.2Ω/M′ 10.4Ω/km	78%	12	39.4	22	72.2
	9936	NEC: CM CEC: CM	15	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	7.2 35.0 68.0	3.3 15.9 30.9	.350	8.89	24.0Ω/Μ′ 78.7Ω/km	3.6Ω/Μ΄ 11.7Ω/km	78%	12	39.4	22	72.2
	9937	NEC: CM CEC: CM	25	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	9.9 54.5 108.0	4.5 24.8 49.0	.445	11.30	24.0Ω/Μ΄ 78.7Ω/km	2.8Ω/M′ 9.1Ω/km	78%	12	39.4	22	72.2
†24 AWG Stranded TC Drain Wire	9938	NEC: CM CEC: CM	37	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	12.9 71.5 139.0	5.9 32.5 63.1	.500	12.7	24.0Ω/M′ 78.7Ω/km	2.4Ω/M′ 7.8Ω/km	78%	12	39.4	22	72.2

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors. **Nominal capacitance conductor to conductor and shield.

^{††}Final put-up may vary -10% to +20%. May contain two pieces, minimum length of any one piece is 1500 ft.

Datalene insulation features include a low dielectric constant and a low dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

