Detailed Specifications & Technical Data





9932 Multi-Conductor - Low-Capacitance Computer Cable for EIA RS-232/423



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Description:

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

Physical Characteristics (Ov	-		
Physical Characteristics (Ove Conductor	eran)		
AWG:			
# Conductors AWG Stranding Co	nductor Material		
7 24 7x32 TC	- Tinned Copper		
Insulation			
Insulation Material:			
Insulation Trade Name Insulation			
Datalene® FPE - Foan	n Polyethylene		
Outer Shield			
Outer Shield Material:			
Layer # Outer Shield Trade Name		Coverage (%)	
1 Beldfoil®	Tape Aluminum Foil-Polyester Tape	100	
2	Braid TC - Tinned Copper	65	
Outer Shield Drain Wire AWG:			
AWG Stranding Drain Wire Condu			
24 Stranded TC - Tinned Coppe	er		
Outer Jacket Material: Outer Jacket Material PVC - Polyvinyl Chloride Overall Cabling Overall Cabling Color Code Char Black White Red Green Brown Blue	t:		
Orange			
Overall Nominal Diameter:	0.265 in.		
Mechanical Characteristics (Overall)		
Operating Temperature Range:	-30°C To +8	0°C	
UL Temperature Rating:	80°C (UL A)	VM Style 2919))
Bulk Cable Weight:	42 lbs/1000	ft.	

Min. Bend Radius (Install)/Minor Axis:

2.700 in.

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9932 Multi-Conductor - Low-Capacitance Computer Cable for EIA RS-232/423

rams CM CM	
СМ	
UL Style 2919 (30 V 80°C)	
Yes	
Yes	
Yes	
01/01/2004	
Yes	
Yes	
Yes	
Yes	
UL1685 UL Loading	
No	
	Yes Yes 01/01/2004 Yes Yes Yes Yes UL1685 UL Loading

handling. Physical properties include good crush resistance and light weight.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9932 060100	100 FT	4.500 LB	CHROME		7 #24 FHDPE SH PVC

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ENGLISH MEASUREMENT VERSION

9932 Multi-Conductor - Low-Capacitance Computer Cable for EIA RS-232/423

9932 0601000	1,000 FT	41.000 LB	CHROME	С	7 #24 FHDPE SH PVC
9932 060500	500 FT	18.500 LB	CHROME	С	7 #24 FHDPE SH PVC

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Notes: C = CRATE REEL PUT-UP.

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

4.2

			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.		Standard Lengths		Stan Unit V	dard Veight	Nomi	nal OD	Nomin	al DCR	Nom. Vel.	Nominal Capacitance			
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
[†] 24 AWG Stranded TC Drain Wire	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
	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.

