

9611 Multi-Conductor - Computer Cable for EIA RS-232 Applications

**Description:**

24 AWG stranded (7x32) tinned copper conductors, semi-rigid PVC insulation, overall Beldfoil® shield (100% coverage) + TC braid shield (65% coverage), PVC jacket.

Physical Characteristics (Overall)**Conductor****AWG:**

# Conductors	AWG	Stranding	Conductor Material
6	24	7x32	TC - Tinned Copper

Insulation**Insulation Material:**

Insulation Material
S-R PVC - Semi-Rigid Polyvinyl Chloride

Outer Shield**Outer Shield Material:**

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	65

Outer Jacket**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cabling**Overall Cabling Color Code Chart:**

Number	Color
1	Black
2	White
3	Red
4	Green
5	Brown
6	Blue

Overall Nominal Diameter: 0.225 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2464)
Bulk Cable Weight:	32 lbs/1000 ft.
Min. Bend Radius (Install)/Minor Axis:	2.300 in.

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG

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AWM Specification:	UL Style 2464 (300 V 80°C)
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EU CE Mark:	Yes
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EU Directive 2000/53/EC (ELV):	Yes
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EU Directive 2002/95/EC (RoHS):	Yes
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EU RoHS Compliance Date (mm/dd/yyyy):	10/01/2005
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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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Flame Test

UL Flame Test:	UL1685 FT4 Loading
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C(UL) Flame Test:	FT4
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/ft)

30

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

55

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

25

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

7

Max. Operating Voltage - UL:

Voltage

300 V RMS (UL AWM Style 2464)

Max. Recommended Current:

Current

1.5 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9611 060100	100 FT	4.200 LB	CHROME		6 #24 PVC BRD PVC
9611 0601000	1,000 FT	34.000 LB	CHROME	C	6 #24 PVC BRD PVC
9611 060500	500 FT	17.000 LB	CHROME		6 #24 PVC BRD PVC

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'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

Specifications		Cable Series*			
		9925	9608	9533	9939
Conductor Size: (AWG)	28				
	24	✓	✓	✓	
	22				✓
	20				
	18				
Page No.		4.18	4.17	4.11	4.19
Insulation:	S-R PVC		✓	✓	✓
	Polyethylene				
	Polypropylene				
	Datalene®†	✓			
Shield:	Overall Foil			✓	
	Drain Wire	✓		✓	
	Overall Foil/Braid	✓	✓		✓
	Braid Coverage	65%	65%		65%
Drain Wire Overall:		Yes	No	Yes	No
No. of Cond. Available:	1				
	2				
	3	✓	✓	✓	✓
	4	✓	✓	✓	✓
	5	✓	✓	✓	✓
	6	✓	✓	✓	✓
	7	✓	✓	✓	✓
	8	✓	✓	✓	✓
	9	✓	✓	✓	✓
	10	✓	✓	✓	✓
	11				
	12				
	13				
	15	✓	✓	✓	✓
	17				
	18				
	19				
	20			✓	
	25	✓	✓	✓	✓
	27				
	30			✓	
	31				
	37	✓	✓		✓
	40			✓	
	50		✓	✓	✓
Capacitance ** (pF/ft.)		12.0	30.0	30.0	35.0

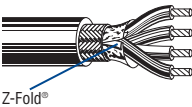
*All cables are UL-listed.

**Capacitance may vary on some cables.

† Foam high density polyethylene.

Overall Foil/Braid Shield

Computer Cables for EIA RS-232 Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Nominal OD		Nominal DCR		Nominal Capacitance				
					Ft.	m	Lbs.	kg	Inch	mm	Cond.	Shield	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m	
24 AWG Stranded (7x32) TC Conductors • Overall Beldfoil® (100% Coverage) + TC Braid Shield (65% Coverage)																	
Semi-rigid PVC Insulation • Chrome PVC Jacket																	
UL AWM Style 2464 (300V 80°C)	9608	NEC:	3	See	100	30.5	3.1	1.4	.190	4.83	25.0Ω/M'	9.8Ω/M'	35	115	65	213	
		CMG:		Chart 1	500	152.4	12.0	5.4			82.0Ω/km	32.2Ω/km					
		CEC:		(Tech Info Section)	1000	304.8	23.0	10.4									
		CMG FT4															
	9609	NEC:	4	See	100	30.5	3.5	1.6	.200	5.08	25.0Ω/M'	9.8Ω/M'	35	115	65	213	
				CMG:	Chart 1	500	152.4	13.5			6.1	82.0Ω/km					32.2Ω/km
				CEC:	(Tech Info Section)	1000	304.8	26.0			11.8						
				CMG FT4													
	9610	NEC:	5	See	100	30.5	4.0	1.8	.215	5.46	25.0Ω/M'	6.5Ω/M'	35	115	65	213	
		CMG:		Chart 1	500	152.4	16.0	7.3			82.0Ω/km	21.3Ω/km					
		CEC:		(Tech Info Section)	1000	304.8	32.0	14.5									
		CMG FT4															
	9611	NEC:	6	See	100	30.5	4.2	1.9	.225	5.72	25.0Ω/M'	7.0Ω/M'	30	98.4	55	180	
		CMG:		Chart 1	500	152.4	17.0	7.7			82.0Ω/km	23.0Ω/km					
		CEC:		(Tech Info Section)	1000	304.8	34.0	15.4									
		CMG FT4															
	9612	NEC:	7	See	100	30.5	4.2	1.9	.225	5.72	25.0Ω/M'	6.9Ω/M'	30	98.4	55	180	
		CMG:		Chart 1	500	152.4	18.5	8.4			82.0Ω/km	22.6Ω/km					
		CEC:		(Tech Info Section)	1000	304.8	38.0	17.3									
		CMG FT4															
	9613	NEC:	8	See	100	30.5	4.5	2.0	.240	6.10	25.0Ω/M'	7.3Ω/M'	30	98.4	55	180	
		CMG:		Chart 1	500	152.4	21.0	9.5			82.0Ω/km	23.9Ω/km					
		CEC:		(Tech Info Section)	1000	304.8	41.0	18.6									
		CMG FT4															
	9614	NEC:	9	See	100	30.5	4.8	2.2	.253	6.43	25.0Ω/M'	7.5Ω/M'	30	98.4	55	180	
		CMG:		Chart 1	500	152.4	22.0	10.0			82.0Ω/km	24.6Ω/km					
		CEC:		(Tech Info Section)	1000	304.8	44.0	20.0									
		CMG FT4															
	9615	NEC:	10	See	100	30.5	5.4	2.5	.270	6.86	25.0Ω/M'	6.9Ω/M'	30	98.4	55	180	
		CMG:		Chart 1	500	152.4	25.0	11.4			82.0Ω/km	22.6Ω/km					
		CEC:		(Tech Info Section)	1000	304.8	50.0	22.7									
		CMG FT4															
	9616	NEC:	15	See	100	30.5	6.6	3.0	.300	7.62	25.0Ω/M'	6.9Ω/M'	30	98.4	55	180	
		CMG:		Chart 2R	500	152.4	31.5	14.3			82.0Ω/km	22.6Ω/km					
		CEC:		(Tech Info Section)	1000	304.8	63.0	28.6									
		CMG FT4															
	9617	NEC:	25	See	100	30.5	10.1	4.6	.370	9.40	25.0Ω/M'	5.1Ω/M'	30	98.4	55	180	
		CMG:		Chart 2R	500	152.4	49.5	22.5			82.0Ω/km	16.7Ω/km					
		CEC:		(Tech Info Section)	1000	304.8	100.0	45.4									
		CMG FT4															
	9618	NEC:	37	See	100	30.5	13.7	6.2	.411	10.43	25.0Ω/M'	4.4Ω/M'	30	98.4	55	180	
		CMG:		Chart 2R	500	152.4	66.5	30.2			82.0Ω/km	14.4Ω/km					
		CEC:		(Tech Info Section)	1000	304.8	135.0	61.3									
		CMG FT4															
	9619	NEC:	50	See	100	30.5	17.2	7.8	.485	12.32	25.0Ω/M'	4.3Ω/M'	30	98.4	55	180	
		CMG:		Chart 2R	500	152.4	93.0	42.2			82.0Ω/km	14.1Ω/km					
		CEC:		(Tech Info Section)	1000	304.8	182.0	82.6									
		CMG FT4															

DCR = DC Resistance • TC = Tinned Copper

* Capacitance between conductors.

** Nominal capacitance conductor to conductor and shield.