

9791 Multi-Conductor - Computer Cable for EIA RS-232 Applications



Description:

28 AWG stranded (7x36) tinned copper conductors, Datalene® insulation, overall Beldfoil® (100% Coverage) plus tinned copper braid shield (65% Coverage), 28 AWG stranded tinned copper drain wire, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
6	28	7x36	TC - Tinned Copper

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material
Datalene®	FPE - Foam Polyethylene

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 Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
28	7x36	TC - Tinned Copper

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 2919)
Bulk Cable Weight:	25.300 lbs/1000 ft.
Min. Bend Radius (Install)/Minor Axis:	2.400 in.

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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CL2
NEC Articles:	725
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):	10/13/2005
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, VW-1
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

100

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

12

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

22

Nominal Velocity of Propagation:

VP (%)

78

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

65

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

4.7

Max. Operating Voltage - UL:

Voltage

30 V RMS (UL AWM Style 2919)

Max. Recommended Current:

Current

.9 Amps per conductor @ 25°C

Notes (Overall)

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

Put Ups and Colors:

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Item #	Putup	Ship Weight	Color	Notes	Item Desc
9791 0601000	1,000 FT	29.000 LB	CHROME	C	6 #28 FRFPE SHLD PVC
9791 060500	500 FT	13.000 LB	CHROME	C	6 #28 FRFPE SHLD PVC

Notes:

C = CRATE REEL PUT-UP.

Overall Foil/Braid Shield

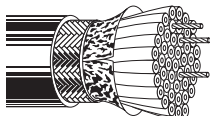
Computer Cables for EIA RS-232 Applications and IEEE 488 Interface,
Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-423 Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Nominal OD		Nominal DCR		Nom. Vel. of Prop.	Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Cond.	Shield		* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

28 AWG Stranded (7x36) Tinned Copper Conductors • Overall Beldfoil® (100% Coverage) + Tinned Copper Braid Shield (65% Coverage)

Semi-rigid PVC Insulation • Chrome PVC Jacket

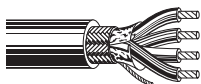
UL AWM Style 2464 (300V 80°C)	9637	NEC:	25	See	100	30.5	6.2	2.8	.305	7.75	64.9Ω/M'	4.5Ω/M'	66%	30	98	50	164
CSA AWM I B FT4		CL2		Chart 2R	500	152.4	30.0	13.6			212.9Ω/km	14.8Ω/km					
				(Tech Info Section)	1000	304.8	59.0	26.8									



Low Cap 28 AWG Stranded (7x36) TC Conductors • Overall Beldfoil (100% Coverage) + TC Braid Shield (65% Coverage) • Drain Wire†

Datalene® Insulation • Chrome PVC Jacket

UL AWM Style 2919 (30V 80°C)	9791	NEC:	6	See	500	152.4	13.0	6.0	.225	5.72	64.9Ω/M'	6.15Ω/M'	78%	12	39.4	22	72.2
VW-1		CL2		Chart 1	1000	304.8	29.0	13.2			212.9Ω/km	20.2Ω/km					
				(Tech Info Section)													

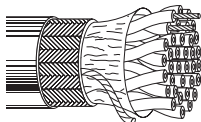


†28 AWG Stranded TC Drain Wire

IEEE 488 • 26 AWG & 24 AWG Stranded (7x34 & 7x32) TC Cond. • Overall Beldfoil (100% Coverage) + TC Braid Shield (90% Coverage) • Drain Wire

Semi-rigid PVC Insulation • Gray PVC Jacket

UL AWM Style 2464 (300V 80°C)	9641	NEC:	23:	See	1000	304.8	82.0	37.4	.350	8.89	26 AWG:	2.6Ω/M'	66%	—	—	—	—	
CSA AWM I A		CMG		(6)							Chart 1	37.3Ω/M'						8.5Ω/km
		CEC:		26 AWG							(Tech Info	122.4Ω/km						
		CMG FT4		Pairs							Section)							
				(10)								24 AWG:						23.3Ω/M'
		26 AWG		Cond.	76.4Ω/km													
		(1)																
		24 AWG		Cond.														



TC = Tinned Copper

*Capacitance between conductors.

**Capacitance between one conductor and other conductors connected to ground.

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.