

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



For more Information  
please call

1-800-Belden1



### General 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

Total Number of Conductors: 6

#### Insulation

##### Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Datalene®	FPE - Foam Polyethylene	0.381

#### 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	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.889

#### Overall Cable

##### Overall Cabling Color Code Chart:

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

Overall Nominal Diameter: 5.715 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +80°C

UL Temperature Rating: 80°C (UL AWM Style 2919)

Bulk Cable Weight: 38.693 Kg/Km

Min. Bend Radius/Minor Axis: 57.150 mm

## 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 Directive 2011/65/EU (ROHS II):	Yes
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:	UL1581 Vertical Tray
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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/m)

39.372

### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

72.182

### Nominal Velocity of Propagation:

VP (%)

78

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

213.265

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

15.4207

### Max. Operating Voltage - UL:

Voltage	Description
30 V RMS	UL AWM Style 2919
150 V RMS	CL2

### Max. Recommended Current:

Current

.9 Amps per conductor @ 25°C

## Notes (Overall)

**Notes:** 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.

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### Put Ups and Colors:

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	14.500 LB	CHROME	C	6 #28 FRFPE SHLD PVC

**Notes:**

C = CRATE REEL PUT-UP.

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