

## 9829 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422

For more Information  
please call

1-800-Belden1

**General Description:**

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

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

# Pairs	AWG	Stranding	Conductor Material
2	24	7x32	TC - Tinned Copper

Total Number of Conductors: 4

**Insulation****Insulation Material:**

Insulation Material	Wall Thickness (mm)
PE - Polyethylene	0.406

**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
24	Stranded	TC - Tinned Copper

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.889

**Overall Cable**

Overall Nominal Diameter: 7.391 mm

**Pair****Pair Color Code Chart:**

Number	Color
1	White/Blue & Blue/White
2	White/Orange & Orange/White

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-30°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	59.528 Kg/Km
Max. Recommended Pulling Tension:	253.547 N
Min. Bend Radius/Minor Axis:	76.200 mm

## 9829 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

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

50.8555

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

Capacitance (pF/m)

90.2275

## Nominal Velocity of Propagation:

VP (%)

66

## Nominal Delay:

Delay (ns/m)

5.2496

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

78.744

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

14.4364

## Max. Operating Voltage - UL:

Voltage	Description
30 V RMS	UL AWM Style 2919
300 V RMS	CM

## Max. Recommended Current:

Current

2.1 Amps per conductor @ 25°C

**9829 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422****Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9829 060100	100 FT	4.700 LB	CHROME		BRAID 2 PR #24 PER SH PVC
9829 0601000	1,000 FT	43.000 LB	CHROME	C	BRAID 2 PR #24 PER SH PVC
9829 060500	500 FT	22.000 LB	CHROME	C	BRAID 2 PR #24 PER SH PVC
9829 0605000	5,000 FT	215.000 LB	CHROME		BRAID 2 PR #24 PER SH PVC

**Notes:**

C = CRATE REEL PUT-UP.

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