

## 8115 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, Datalene® 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
15	24	7x32	TC - Tinned Copper

Total Number of Conductors: 30

**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 w/Shorting Fold	100
2		Braid	TC - Tinned Copper	65

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
24	7x32	TC - Tinned Copper

**Outer Jacket**

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	1.016

**Overall Cable**

Overall Nominal Diameter: 12.116 mm

**Pair**

Pair Color Code Chart:

Number	Color
1	White/Blue & Blue/White
2	White/Orange & Orange/White
3	White/Green & Green/White
4	White/Brown & Brown/White
5	White/Gray & Gray/White
6	Red/Blue & Blue/Red
7	Red/Orange & Orange/Red
8	Red/Green & Green/Red
9	Red/Brown & Brown/Red
10	Red/Gray & Gray/Red
11	Black/Blue & Blue/Black
12	Black/Orange & Orange/Black
13	Black/Green & Green/Black
14	Black/Brown & Brown/Black
15	Black/Gray & Gray/Black

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-30°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	159.237 Kg/Km
Max. Recommended Pulling Tension:	758.418 N

## METRIC MEASUREMENT VERSION

## 8115 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422

Min. Bend Radius/Minor Axis: 127 mm

## 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 &amp; Cable): Yes

MII Order #39 (China RoHS): Yes

## Flame Test

UL Flame Test: UL1685 UL Loading

## Plenum/Non-Plenum

Plenum (Y/N): No

## Electrical Characteristics (Overall)

## Nom. Characteristic Impedance:

Impedance (Ohm)

100

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

41.0125

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

Capacitance (pF/m)

72.182

## Nominal Velocity of Propagation:

VP (%)

78

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

78.744

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

8.5306

## Max. Operating Voltage - UL:

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

## Max. Recommended Current:

Current

.88 Amps per conductor @ 25°C

## Notes (Overall)

**Notes:** Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8115 0601000	1,000 FT	114.000 LB	CHROME	C	15 PR #24 FHDPE SH PVC
8115 060500	500 FT	62.500 LB	CHROME	C	15 PR #24 FHDPE SH PVC

## Notes:

C = CRATE REEL PUT-UP.

### 8115 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422

Revision Number: 3      Revision Date: 08-31-2012

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