# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



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



For more Information please call

1-800-Belden1



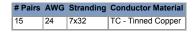
### **General Description:**

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:



**Total Number of Conductors:** 

30

#### Insulation

### Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (in.)	
Datalene®	FPE - Foam Polyethylene	0.015	

#### **Outer Shield**

#### Outer Shield Material:

Layer # Outer Shield Trade Name		Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Таре	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 (in.)
PVC - Polyvinyl Chloride	0.040

### **Overall Cable**

**Overall Nominal Diameter:** 

0.477 in.

#### 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:	107 lbs/1000 ft.	
Max. Recommended Pulling Tension:	170.500 lbs.	

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Min. Bend Radius/Minor Axis: Applicable Specifications and Agency Compliance (Overall) **Applicable Standards & Environmental Programs** NEC/(UL) Specification: CEC/C(UL) Specification: UL Style 2919 (30 V 80°C) **AWM Specification:** EU Directive 2011/65/EU (ROHS II): 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): 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/ft) 12.5

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) 24

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 2.6

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	С	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.

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

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

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