# **Detailed Specifications & Technical Data**

### **METRIC MEASUREMENT VERSION**



# 8342 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232 Applications



For more Information please call

1-800-Belden1



# **General Description:**

24 AWG stranded (7x32) tinned copper conductors, semi-rigid PVC insulation, multi-paired cable with overall Beldfoil® (100% coverage) + TC braid shield (65% coverage), PVC jacket.

# **Physical Characteristics (Overall)**

### Conductor

#### AWG:

# Conductors	# Pairs	AWG	Stranding	<b>Conductor Material</b>
1	12	24	7x32	TC - Tinned Copper

Total Number of Conductors: 25

### Insulation

### **Insulation Material:**

Insulation Material	Wall Thickness (mm)
S-R PVC - Semi-Rigid Polyvinyl Chloride	0.279

### **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 Jacket**

### **Outer Jacket Material:**

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

# **Overall Cable**

Overall Nominal Diameter: 10.338 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		
Single Conductor	Gray		

## **Mechanical Characteristics (Overall)**

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

UL Temperature Rating: 80°C (UL AWM Style 2464)

Page 1 of 3 11-08-2019

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Bulk Cable Weight:	148.820 Kg/Km		
Min. Bend Radius/Minor Axis:	107.950 mm		
licable Specifications and Agency Co	ompliance (Overall)		
Applicable Standards & Environmental Programs			
NEC/(UL) Specification:	CMG		
CEC/C(UL) Specification:	CMG		
AWM Specification:	UL Style 2464 (300 V 80°C)		
CSA Specification:	AWMIA		
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):	10/01/2005		
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		
Other Specification:	C(RU) AWM I, A 80C 300V		
ne Test			
UL Flame Test:	UL1685 FT4 Loading		

FT4

No

# **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (	Ohm)
75	

**CSA Flame Test:** 

Plenum/Non-Plenum Plenum (Y/N):

Nom. Capacitance Conductor to Conductor:



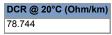
Nom. Capacitance Cond. to Other Conductor & Shield:



Nominal Velocity of Propagation:



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 11.8116

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Page 2 of 3 11-08-2019

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Current 1.1 Amps per conductor @ 25°C

## **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8342 060100	100 FT	11.000 LB	CHROME		BRAID 12 PR,1#24 PVCR SHLD PVC
8342 0601000	1,000 FT	109.000 LB	CHROME	С	BRAID 12 PR,1#24 PVCR SHLD PVC
8342 060500	500 FT	55.000 LB	CHROME	С	BRAID 12 PR,1#24 PVCR SHLD PVC

#### Notes:

C = CRATE REEL PUT-UP.

Revision Date: 09-21-2012 Revision Number: 2

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