## **Detailed Specifications & Technical Data**

### **ENGLISH MEASUREMENT VERSION**



### 1855S3 Coax - Bundled Miniature

For more Information please call

1-800-Belden1



### **General Description:**

23 AWG solid .023" bare copper conductors, gas-injected foam HDPE insulation, Duofoil® (100% Coverage) plus a tinned copper braid shield (95% coverage), individual PVC jackets.

### Usage (Overall)

Suitable Applications:

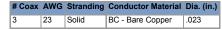
RGB, VGA, SVGA, XGA, SXGA, UXGA, HDTV, LCD, Plasma, Digital Signage, Component Video, Video Mult, Animation, Special Effects, Suitable for use in Risers

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### **Physical Characteristics (Overall)**

### Conductor

AWG:



Total Number of Conductors:

#### Insulation

### Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.102

### Inner Shield

#### Inner Shield Material:

Layer #	Inner Shield Trade Name Type		Inner Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	95

### Inner Jacket

#### Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (in.)
PVC - Polyvinyl Chloride	.159

### Inner Jacket Color Code Chart:

Number	Color
1	Red
2	Green
3	Blue

#### **Outer Jacket**

### Outer Jacket Material:



### **Overall Cable**

Overall Cabling Fillers:	Bonded Spline
Overall Nominal Diameter:	0.343 in.

## **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-35°C To +75°C
UL Temperature Rating:	60°C
Non-UL Temperature Rating:	75°C
Bulk Cable Weight:	52 lbs/1000 ft.
Max. Recommended Pulling Tension:	108 lbs.
Min. Bend Radius/Minor Axis:	5 in.

### **Applicable Specifications and Agency Compliance (Overall)**

### **Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMR

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CEC/C(UL) Specification:	CMG
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
RG Type:	Mini
Applicable Patents:	
Country	
www.belden.com/p	
Flame Test	
UL Flame Test:	UL1666 Vertical Shaft
Suitability	
Suitability - Indoor:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	No

### **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm) 75.000

Nom. Inductance:

Inductance (µH/ft) 0.106

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
16.5

Nominal Velocity of Propagation:

**VP (%)** 83

Nominal Delay:

Delay (ns/ft) 1.24

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 20.1

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 7.6

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	0.4
3.6	0.8
10	1.2
71.5	3.1
135	3.8
270	5.4
360	6.2
540	7.7
720	9.1
750	9.5
1000	10.5
1500	13.0
2500	16.9
3000	18.5

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## **Detailed Specifications & Technical Data**

### **ENGLISH MEASUREMENT VERSION**



### 1855S3 Coax - Bundled Miniature

Max. Operating Voltage - UL:

Voltage 300 V RMS

Other Electrical Characteristic 1:

Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination.

Other Electrical Characteristic 2:

Return Loss Tested in Accordance With ASTM D-4566 Paragraph 45.3, Using a 75 Ohm Fixed Bridge and Termination.

#### Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5	625	20
625	675	15
675	850	20
850	4500	15

#### Sweep Test

Sweep Testing:

Sweep tested 5 MHz to 4.5 GHz

### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1855\$3 0001000	1,000 FT	57.000 LB	NONE	С	BONDED FILLER COMPOSITE
1855S3 000500	500 FT	29.500 LB	NONE	С	BONDED FILLER COMPOSITE

C = CRATE REEL PUT-UP.

Revision Number: 0 Revision Date: 02-28-2014

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).