# **Detailed Specifications & Technical Data**

### **ENGLISH MEASUREMENT VERSION**



### 84142 Coax - 50 Ohm Coax

For more Information please call

1-800-Belden1



## **Description:**

19 AWG solid .037" silver-coated copper-covered steel conductor, plenum, TFE Teflon® insulation, double silver-coated copper braid shield (96% coverage), FEP jacket.

## **Physical Characteristics (Overall)**

### Conductor

### AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	19	Solid	SCCCS - Silver-coated Copper-covered Steel	0.037

### Insulation

### Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Teflon®	TFE - Tetrafluoroethylene	.116

### **Outer Shield**

### **Outer Shield Material:**

Layer #	Type	Outer Shield Material	Coverage (%)
1		Silver-coated Copper	
2	Braid	Silver-coated Copper	94

## **Outer Jacket**

## **Outer Jacket Material:**

Outer Jacket Material
FEP - Fluorinated Ethylene Propylene

### **Overall Cable**

Overall Nominal Diameter: 0.195 in.

## **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-70°C To +200°C
UL Temperature Rating:	200°C
Bulk Cable Weight:	43 lbs/1000 ft.
Max. Recommended Pulling Tension:	146 lbs.
Min. Bend Radius (Install)/Minor Axis:	2 in.

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

## **Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
EU CE Mark:	No
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes

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Yes
Yes
Yes
MIL-C-17G, M17/60
142/U
VW-1, NFPA 262
FT6
Teflon® is a DuPont trademark.
Yes

## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



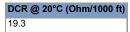
Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:



**Nominal Outer Shield DC Resistance:** 



Maximum VSWR:

Freq. (MHz)	Max. VSWR
50	1.11
400	1.14
1000	1.17
3000	1.33
8000	1.33

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
10	1.1
50	2.6
100	3.8
200	5.4
400	7.9
700	10.7
900	12.3
1000	13.1
2000	19.3

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3000	24.2
5000	32.6
8000	43.2

#### Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
50	4
100	5.5
400	11.7
1000	19
3000	35
8000	66

### Max. Power Rating:

Freq. (MHz)	Rating (W)
50	3500
100	2400
400	1100
1000	650
3000	330
8000	180

### Max. Operating Voltage - UL:

Voltage					
150 V RMS					

### Misc. Information (Overall)

### **Notes (Overall)**

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

## **Related Documents:**

No related documents are available for this product

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

Item #	Putup	Ship Weight	Color	Notes	Item Desc
84142 001100	100 FT	5.000 LB	BROWN		M17/60-RG142 COAX
84142 0011000	1,000 FT	44.000 LB	BROWN	CE	M17/60-RG142 COAX
84142 001500	500 FT	22.500 LB	BROWN	CE	M17/60-RG142 COAX

### Notes:

C = CRATE REEL PUT-UP.

E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'

Revision Date: 06-09-2009 Revision Number: 4

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