

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

BELDEN
SENDING ALL THE RIGHT SIGNALS

84142 Coax - 50 Ohm Coax



For more Information
please call

1-800-Belden1



General Description:

19 AWG solid .037" silver-coated copper-covered steel conductor, plenum, TFE Teflon® insulation, double silver-coated copper braid shields (95% 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

Total Number of Conductors: 1

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	Braid	Silver-coated Copper	95.000
2	Braid	Silver-coated Copper	95.000

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: 42 lbs/1000 ft.

Max. Recommended Pulling Tension: 146 lbs.

Min. Bend Radius/Minor Axis: 2 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

EU Directive 2011/65/EU (ROHS II): Yes

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

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

Military Specification: MIL-DTL-17, M17/60

RG Type: 142/U

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Flame Test

CSA Flame Test: FT6

Plenum/Non-Plenum

Plenum (Y/N): Yes

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
50

Nom. Inductance:

Inductance (μH/ft)
.067

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
29.0

Nominal Velocity of Propagation:

VP (%)
70%

Nominal Delay:

Delay (ns/ft)
1.48

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
19.3

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.3

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
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

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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.

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	C E	M17/60-RG142 COAX
84142 001500	500 FT	22.500 LB	BROWN	C E	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'

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