

83242 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	Braid	Silver-coated Copper	96
1	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

EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Military Specification:	MIL-C-17G, M17/158-00001
RG Type:	142B/U

Flame Test

UL Flame Test:	VW-1, NFPA 262
C(UL) Flame Test:	FT6
Other Information (Trademarks):	Teflon® is a DuPont trademark

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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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

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. Operating Voltage - UL:

Voltage
150 V RMS

Max. Operating Voltage - Other:

Voltage	Description
1400 V RMS	Military

Misc. Information (Overall)**Notes (Overall)**

Notes: Non-SWR swept version of RG-142. 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
83242 001100	100 FT	5.200 LB	BROWN	C E	M17/158-00001 COAX
83242 0011000	1,000 FT	44.000 LB	BROWN	C E	M17/158-00001 COAX
83242 001500	500 FT	22.000 LB	BROWN	C E	M17/158-00001 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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