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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. (mm)
1	19	Solid	SCCCS - Silver-coated Copper-covered Steel	0.940

### Insulation

#### Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (mm)
Teflon®	TFE - Tetrafluoroethylene	2.9464

### 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 Cabling

Overall Nominal Diameter: 4.953 mm

## Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

UL Temperature Rating: 200°C

Bulk Cable Weight: 63.993 Kg/Km

Max. Recommended Pulling Tension: 649.437 N

Min. Bend Radius (Install)/Minor Axis: 50.800 mm

## 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/m)

0.219827

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

95.149

### Nominal Velocity of Propagation:

VP (%)

70%

### Nominal Delay:

Delay (ns/m)

4.85588

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

63.3233

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

7.5463

### Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

10	3.6091
50	8.5306
100	12.4678
200	17.7174
400	25.9199
700	35.1067
900	40.3563
1000	42.9811
2000	63.3233
3000	79.4002
5000	106.961
8000	141.739

### 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	30 MT	2.359 KG	BROWN	C E	M17/158-00001 COAX
83242 0011000	305 MT	19.958 KG	BROWN	C E	M17/158-00001 COAX
83242 001500	152 MT	9.979 KG	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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