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1-800-Belden1



General Description:

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

Total Number of Conductors: 1

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	95.000
1	Braid	Silver-coated Copper	95.000

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
FEP - Fluorinated Ethylene Propylene

Overall Cable

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/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 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-17H, M17/158-00001
RG Type:	142B/U

Flame Test

UL Flame Test:	NFPA 262
CSA Flame Test:	FT6

Suitability

Suitability - Indoor:	Yes
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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.

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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