

Detailed Specifications & Technical Data



Field Components INC.

888-413-4353

Fiber Optic - Copper - Wireless... Solutions

fieldcomponents.com

83242 Coax - 50 Ohm Coax

For more Information
Please call

888-413-4353



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 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 (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

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METRIC MEASUREMENT VERSION

83242 Coax - 50 Ohm Coax

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

C(UL) Flame Test:	FT6
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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

Field Components

Carries Stock on all RG142 Connectors

<http://fieldcomponents.com/Connectors-For-RG142.html>

We also provide custom cable assemblies that meet your exact need.

Including test results

We can Private Label

We build Custom Lengths

<http://fieldcomponents.com/coaxialassemblies.html>

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