



Product: [9862](#)

93Ω Coax RG-62/U, #22 BCCS, Semi-solid PO, BC Braid, PVC (Non-contam.) Jkt, CMX

Product Description

93 Ohm Coax MIL-DTL-17 QPL, M17/30-RG062, 22 AWG solid .025" bare copper-covered steel conductor, semi-solid polyethylene insulation, bare copper braid shield (95% coverage), non-contaminating PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	RF, Antenna, Mil Spec
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
22	Solid	BCCS - Bare Copper Covered Steel	0.025 in	1

Conductor Count:	1
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Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PE - Polyethylene (Semi-Solid)	0.146 in	0.026 in

Outer Shield

Type	Material	Coverage [%]
Braid	Bare Copper (BC)	95%

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride (Non-Contaminating)	0.242 in	0.033 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
40.5 Ohm/1000ft	2.4 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
13.0 pF/ft

Inductance

Nominal Inductance
0.116 μH/ft

Impedance

Nominal Characteristic Impedance
93 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.3 dB/100ft
10 MHz	0.9 dB/100ft
50 MHz	1.9 dB/100ft
100 MHz	2.7 dB/100ft
200 MHz	3.8 dB/100ft
400 MHz	5.3 dB/100ft
700 MHz	7.3 dB/100ft
900 MHz	8.2 dB/100ft
1000 MHz	8.7 dB/100ft

Delay

Nominal Velocity of Propagation (VP) [%]
85%

Voltage

UL Voltage Rating	Voltage Rating [V]
300 V RMS	750 V RMS

Temperature Range

UL Temp Rating:	60°C
Operating Temperature Range:	-40°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	34 lbs/1000ft
Max. Pull Tension:	66 lbs
Min. Bend Radius/Minor Axis:	2.5 in

Standards

NEC/(UL) Compliance:	CMX
CEC/C(UL) Compliance:	CMX
UL AWM Style Compliance:	AWM 1354 (30 V 60°C)
RG Type:	62
Military Compliance:	MIL-DTL-17, M17/30-RG62, QPL
Qualified Products List (QPL):	Yes

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	Yes - Black only, when supported by messenger wire
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only

Flammability, LS0H, Toxicity Testing

UL Flammability:	VW-1
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
9862 0101000	Black	Reel	1,000 ft	612825259732

History

Update and Revision:	Revision Number: 0.335 Revision Date: 05-05-2023
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