

Product: [9857](#) 

MIL-C-17G, RG63, 125 Ohm Coax, #22 Solid BCCS, 95% BC Braid, CMH



Product Description

125 ohm, 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:	M17/31-RG63
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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
PE - Polyethylene (Semi-Solid)	0.285 in

Outer Shield Material

Type	Material	Coverage [%]
Braid	BC - Bare Copper	95 %

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride (Non-Contaminating)	0.405 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
41.2 Ohm/1000ft	1.2 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
9.7 pF/ft

Inductance

Nominal Inductance
0.2 µH/ft

Impedance

Nominal Characteristic Impedance
125 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.2 dB/100ft
10 MHz	0.5 dB/100ft
50 MHz	1.1 dB/100ft
100 MHz	1.5 dB/100ft
200 MHz	2.3 dB/100ft
400 MHz	3.4 dB/100ft
700 MHz	4.6 dB/100ft
900 MHz	5.5 dB/100ft
1000 MHz	5.8 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.21 ns/ft	84 %

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	85 lbs/1000ft
Max Recommended Pulling Tension:	149 lbs
Min Bend Radius/Minor Axis:	4.25 in

Standards

NEC/(UL) Specification:	CMH
CPR Euroclass:	Eca
RG Type:	63/U Type
Military Specification:	MIL-C-17, M17/31-RG63

Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum)
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2005-10-01
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	No
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Suitability - Sunlight Resistance:	No

Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
9857 0101000	Black	Reel	1,000 ft	612825407393

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.274 Revision Date: 04-28-2020
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