



Product: [9857](#)



Mil-Spec Coax, 125 Ohm, RG-63, 22 AWG Solid BCCS, 95% BC Braid, PVC Jkt, CMH, Commercial, QPL

Product Description

Mil-Spec Coax, 125 Ohm, RG-63, 22 AWG Solid Bare Copper Covered Steel Conductor, PE Insulation, 95% Bare Copper Braid Shield, PVC Jacket (Non-Contaminating), CMH, Commercial, QPL

Technical Specifications

Product Overview

Suitable Applications:	Data transmission
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Construction Details

RG Type:	63
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Conductor

Size	Stranding	Nom. Diameter	Material
22 AWG	Solid	0.025 in	BCCS - Bare Copper Covered Steel

Insulation

Material	Nom. Insulation Diameter	Color Code	Notes
PE - Polyethylene (Semi-Solid)	0.285 in (7.24 mm)	White	Solid PE monofilament spiral around conductor. Solid PE tube over monofilament

Outer Shield

Layer	Outer Shield Type	Material	Coverage
1	Braid	Bare Copper (BC)	95%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride (Non-Contaminating)	0.405 in (10.3 mm)

Overall Cable Diameter (Nominal):	0.405 in (10.3 mm)
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Electrical Characteristics

Attenuation

Frequency	Nom. Attenuation
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

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
40.5 Ohm/1000ft (133 Ohm/km)	1.2 Ohm/1000ft (3.9 Ohm/km)	9.7 pF/ft (32 pF/m)	125 Ohm	84%

Voltage

UL Voltage Rating	Voltage Rating
300 V (CMH)	750 V (Mil-Spec)

Mechanical Characteristics

Temperature

UL Temperature	Operating
80°C	-40°C to +80°C

Bend Radius

Installation Min.
4 in (100 mm)

Max. Pull Tension:	149 lbs (67.6 kg)
Bulk Cable Weight:	78 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor, Aerial - Black only, When supported by messenger wire
Sustainability:	CA Prop 65
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	CMH
Military Compliance:	MIL-C-17, M17/31-RG63
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.489 Revision Date: 10-06-2023
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Part Numbers

Variants

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

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