



Product: [9857](#)



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

Technical Specifications

Product Overview

| | |
|------------------------|-------------------|
| Suitable Applications: | Data transmission |
|------------------------|-------------------|

Construction Details

| | |
|----------|----|
| RG Type: | 63 |
|----------|----|

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) |
|-----------------------------------|--------------------|

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: | Commercial, non-QPL product (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: 0.458 Revision Date: 04-13-2023 |
|----------------------|--|

Part Numbers

Variants

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

© 2023 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.