



**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 |
|------------------------|-----------------------|

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                                |                  |             |

| 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, LSOH, Toxicity Testing

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

Plenum/Non-Plenum

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

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: 0.336 Revision Date: 04-29-2024 |
|----------------------|--------------------------------------------------|

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