



**Product:** [MRG5900](#) 

MRG5900 - Mil-Spec Coax, 75 Ohm, RG-59 Type, 23 AWG Solid BCCS, 95% BC Braid, PVC Jkt, Commercial

## Product Description

Mil-Spec Coax, 75 Ohm, RG-59 Type, 23 AWG Solid Bare Copper Covered Steel Conductor, PE Insulation, 95% Bare Copper Braid Shield, PVC Jacket, Commercial

## Technical Specifications

### Product Overview

|                        |                       |
|------------------------|-----------------------|
| Suitable Applications: | Standard analog video |
|------------------------|-----------------------|

### Construction Details

|          |    |
|----------|----|
| RG Type: | 59 |
|----------|----|

### Conductor

| No. of Elements | Size   | Stranding | Nom. Diameter | Material                         |
|-----------------|--------|-----------|---------------|----------------------------------|
| 1               | 23 AWG | Solid     | 0.58 mm       | BCCS - Bare Copper Covered Steel |

|              |                  |
|--------------|------------------|
| Table Notes: | Conductivity 40% |
|--------------|------------------|

### Insulation

| Element             | Material          | Nom. Insulation Diameter |
|---------------------|-------------------|--------------------------|
| Insulated Conductor | PE - Polyethylene | 3.7 mm (0.15 in)         |

### Outer Shield

| Outer Shield Type | Material         | Coverage |
|-------------------|------------------|----------|
| Braid             | Bare Copper (BC) | 85%      |

### Outer Jacket

| Material                 | Nom. Diameter |
|--------------------------|---------------|
| PVC - Polyvinyl Chloride | 6.1 mm        |

|              |                            |
|--------------|----------------------------|
| Table Notes: | According to EN 50290-2-20 |
|--------------|----------------------------|

### Electrical Characteristics

|                          |            |
|--------------------------|------------|
| Regularity of Impedance: | Min. 40 dB |
|--------------------------|------------|

### Return Loss (RL)

| Frequency     | Min. Return Loss |
|---------------|------------------|
| 5 - 30 MHz    | 20 dB            |
| 30 - 470 MHz  | 20 dB            |
| 470 - 862 MHz | 18 dB            |

|              |  |
|--------------|--|
| Table Notes: | In each frequency band, 3 peak values up to 4 dB lower are allowed |
|--------------|--|

### Attenuation

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 5 MHz     | 2.9 dB/100m      |
| 50 MHz    | 8 dB/100m        |
| 100 MHz   | 11.6 dB/100m     |
| 230 MHz   | 18.3 dB/100m     |

|          |              |
|----------|--------------|
| 300 MHz  | 21.2 dB/100m |
| 400 MHz  | 25 dB/100m   |
| 470 MHz  | 27.5 dB/100m |
| 860 MHz  | 39.2 dB/100m |
| 1000 MHz | 42.9 dB/100m |
| 1350 MHz | 50 dB/100m   |
| 1600 MHz | 54.5 dB/100m |
| 1750 MHz | 57 dB/100m   |
| 2150 MHz | 63 dB/100m   |

|              |                             |
|--------------|-----------------------------|
| Table Notes: | Max. attenuation 10% higher |
|--------------|-----------------------------|

**Electricals**

| Max. Conductor DCR         | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|----------------------------|---------------------------------|-------------------------------|------------------------|
| 170 Ohm/km (52 Ohm/1000ft) | 67 pF/m (20 pF/ft)              | 75 Ohm                        | 66%                    |

**Mechanical Characteristics**

**Temperature**

| Operating      | Installation  | Storage        |
|----------------|---------------|----------------|
| -15°C To +70°C | -5°C To +50°C | -15°C To +70°C |

**Bend Radius**

| Stationary Min. |
|-----------------|
| 35 mm (1.4 in)  |

**Standards and Compliance**

|                                  |   |
|----------------------------------|---|
| Environmental Suitability:       | Indoor - Euroclass Eca                  |
| Flammability / Reaction to Fire: | IEC 60332-1-2                           |
| CPR Compliance:                  | CPR Euroclass: Eca; CPR UKCA Class: Eca |
| ISO/IEC Compliance:              | IEC 61196                               |
| CENELEC Compliance:              | EN 50117-1                              |
| European Directive Compliance:   | EU CE Mark                              |
| UK Regulation Compliance:        | UKCA Mark                               |

**History**

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.204 Revision Date: 05-31-2024 |
|----------------------|--|

**Part Numbers**

**Variants**

| Item #        | Color | Putup Type | Length | EAN           |
|---------------|-------|------------|--------|---------------|
| MRG5900.10100 | Black | Reel       | 100 m  | 8719605103338 |
| MRG5900.00500 | Black | Reel       | 500 m  | 8719605103284 |
| MRG5900.03500 | Black | Reel       | 500 m  | 8719605103321 |
| MRG5900.11100 | White | Reel       | 100 m  | 8719605103345 |

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