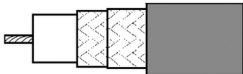




Product: [MRG214](#)



MRG2140 - Mil-Spec Coax, 50 Ohm, RG-214, 13 AWG Str SC, Double SC Braid, PVC Jkt, Commercial

Product Description

Mil-Spec Coax, 50 Ohm, RG-214, 13 AWG (7x21) Silvered Copper Conductor, PE Insulation, 95%/90% Silvered Copper Braid Shield, PVC Jacket, Commercial

Technical Specifications

Product Overview

|                        |                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | Point-to-point and point-to-multipoint wireless antenna communication; Wireless microphones, Two-Way Radios, Amateur (Ham) Radio, Low Power FM, GPS, RFID (Radio Frequency Identification) |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Construction Details

|          |     |
|----------|-----|
| RG Type: | 214 |
|----------|-----|

Conductor

| No. of Elements | Size   | Stranding | Nom. Diameter | Material                             |
|-----------------|--------|-----------|---------------|--------------------------------------|
| 1               | 13 AWG | Stranded  | 2.25 mm       | SCCS - Silvered Copper Covered Steel |

Insulation

| Material          | Nom. Insulation Diameter |
|-------------------|--------------------------|
| PE - Polyethylene | 7.25 mm (0.285 in)       |

Outer Shield

| Layer | Outer Shield Type | Material             | Coverage |
|-------|-------------------|----------------------|----------|
| 1     | Braid             | Silvered Copper (SC) | 86%      |
| 2     | Braid             | Silvered Copper (SC) | 90%      |

Outer Jacket

| Material                 | Nom. Diameter |
|--------------------------|---------------|
| PVC - Polyvinyl Chloride | 10.8 mm       |

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

Electrical Characteristics

Return Loss (RL)

| Frequency      | Min. Return Loss |
|----------------|------------------|
| 100 - 1000 MHz | 23 dB            |

Attenuation

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 50 MHz    | 4.3 dB/100m      |
| 230 MHz   | 9.9 dB/100m      |
| 470 MHz   | 14.9 dB/100m     |
| 860 MHz   | 21.3 dB/100m     |
| 1000 MHz  | 23.3 dB/100m     |

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

Power Rating

| Frequency | Max. Power Rating |
|-----------|-------------------|
|-----------|-------------------|

|           |       |
|-----------|-------|
| 100 MHz   | 760 W |
| 1,000 MHz | 175 W |

Electricals

| Max. Conductor DCR        | Nom. Outer Shield DCR        | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|---------------------------|------------------------------|---------------------------------|-------------------------------|------------------------|
| 6 Ohm/km (1.8 Ohm/1000ft) | 3.1 Ohm/km (0.94 Ohm/1000ft) | 100 pF/m (30 pF/ft)             | 50 Ohm                        | 66%                    |

Mechanical Characteristics

Temperature

| Operating      | Installation  | Storage        |
|----------------|---------------|----------------|
| -40°C To +70°C | -5°C To +50°C | -40°C To +70°C |

Bend Radius

| Stationary Min. |
|-----------------|
| 110 mm (4.3 in) |

|                    |           |
|--------------------|-----------|
| Bulk Cable Weight: | 181 kg/km |
|--------------------|-----------|

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                               |
| UK Regulation Compliance:        | UKCA Mark                               |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.200 Revision Date: 05-31-2024 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #       | Color | Putup Type | Length | EAN           |
|--------------|-------|------------|--------|---------------|
| MRG214.0025  | Black | Reel       | 25 m   | 8719605103123 |
| MRG214.00100 | Black | Reel       | 100 m  | 8719605103116 |
| MRG214.00200 | Black | Reel       | 200 m  | 8719605181602 |
| MRG214.00500 | Black | Reel       | 500 m  | 8719605103130 |

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