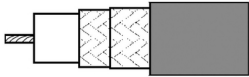




Product: [MRG2142](#)



MRG2142 - Mil-Spec Coax, 50 Ohm, RG-214, 13 AWG Str SC, Double SC Braid, LSZH 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, LSZH 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 | SC - Silvered Copper |

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) | 68% |
| 2 | Braid | Silvered Copper (SC) | 90% |

Outer Jacket

| Material | Nom. Diameter |
|---|---------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 10.8 mm |

| | |
|--------------|----------------------------|
| Table Notes: | According to 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: | 183 kg/km |
|--------------------|-----------|

Standards and Compliance

| | |
|----------------------------------|--|
| Environmental Suitability: | Indoor |
| Flammability / Reaction to Fire: | IEC 60332-1-2 |
| CPR Compliance: | CPR Euroclass: Eca |
| ISO/IEC Compliance: | IEC 61196, IEC 61034-2 - Smoke Density Min Transmittance = 60% |
| European Halogen Free Standards: | IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3 |
| UK Regulation Compliance: | UKCA Mark |

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.214 Revision Date: 02-03-2025 |
|----------------------|--|

Part Numbers

Variants

| Item # | Color | Putup Type | Length | EAN |
|---------------|-------|------------|--------|---------------|
| MRG2142.00100 | Black | Reel | 100 m | 8719605103147 |
| MRG2142.00500 | Black | Reel | 500 m | 8719605103154 |

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