



Product: [9273](#)

Mil-Spec Coax, 50 Ohm, RG-223, 19 AWG Solid SC, Double 95% SC Braid, PVC Jkt, CMX, Commercial Non-QPL

Product Description

Mil-Spec Coax, 50 Ohm, RG-223, 19 AWG Solid Silvered Copper Conductor, PE Insulation, Double 95% Silvered Copper Braid Shield, PVC Jacket (Non-Contaminating), CMX, Commercial, non-QPL

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Suitable Applications: | High frequency microwave and satellite, Point-to-point and point-to-multipoint wireless antenna communication |
|------------------------|---|

Construction Details

| | |
|----------|-----|
| RG Type: | 223 |
|----------|-----|

Conductor

| Size | Stranding | Nom. Diameter | Material |
|--------|-----------|---------------|----------------------|
| 19 AWG | Solid | 0.034 in | SC - Silvered Copper |

Insulation

| Material | Nom. Insulation Diameter | Color Code |
|-------------------|--------------------------|------------|
| PE - Polyethylene | 0.117 in (2.97 mm) | White |

Outer Shield

| Layer | Outer Shield Type | Material | Coverage |
|-------|-------------------|----------------------|----------|
| 1 | Braid | Silvered Copper (SC) | 95% |
| 2 | Braid | Silvered Copper (SC) | 95% |

Outer Jacket

| Material | Nom. Diameter |
|--|--------------------|
| PVC - Polyvinyl Chloride (Non-Contaminating) | 0.212 in (5.38 mm) |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.212 in (5.38 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Attenuation

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 1 MHz | 0.4 dB/100ft |
| 10 MHz | 1.2 dB/100ft |
| 50 MHz | 2.8 dB/100ft |
| 100 MHz | 4.1 dB/100ft |
| 200 MHz | 6.0 dB/100ft |
| 400 MHz | 8.8 dB/100ft |
| 700 MHz | 12 dB/100ft |
| 900 MHz | 13.8 dB/100ft |
| 1000 MHz | 14.5 dB/100ft |

Power Rating

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

| | |
|-----------|-------|
| 50 MHz | 350 W |
| 400 MHz | 86 W |
| 1,000 MHz | 50 W |

Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|--------------------|-----------------------------|---------------------------------|-------------------------------|------------------------|
| 8.8 Ohm/1000ft | 2.5 Ohm/1000ft (8.2 Ohm/km) | 30.8 pF/ft (101 pF/m) | 50 Ohm | 66% |

Voltage

| UL Voltage Rating | Voltage Rating |
|--|-------------------|
| 30 V RMS (UL AWM Style 1354) (UL AWM 1354) | 1400 V (Mil-Spec) |

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|--------------------|----------------|
| 60°C (UL AWM 1354) | -40°C to +60°C |

Bend Radius

| Installation Min. |
|-------------------|
| 2.1 in (53 mm) |

| | |
|--------------------|----------------|
| Max. Pull Tension: | 87 lbs (39 kg) |
| Bulk Cable Weight: | 37 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 |
| Flammability / Reaction to Fire: | VW-1 |
| CPR Compliance: | CPR Euroclass: Eca |
| NEC / UL Compliance: | CMX |
| AWM Compliance: | AWM 1354 |
| CEC / C(UL) Compliance: | CMX |
| Military Compliance: | Commercial, non-QPL product (M17/167-00001) |
| 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

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|----------------------|--|
| Update and Revision: | Revision Number: 0.518 Revision Date: 04-13-2023 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|---------------|-------|------------|----------|--------------|----------|
| 9273 010100 | Black | Reel | 100 ft | 612825226307 | |
| 9273 010500 | Black | Reel | 500 ft | 612825226277 | |
| 9273 010U500 | Black | UnReel | 500 ft | 612825357872 | |
| 9273 0101000 | Black | Reel | 1,000 ft | 612825226314 | C |
| 9273 010U1000 | Black | UnReel | 1,000 ft | 612825226284 | |

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