



Product: [83264](#)

Mil-Spec Coax, 75 Ohm, RG-179, 30 AWG Str SCCS, 95% SC Braid, FEP Jkt, Commercial Non-QPL

Product Description

Mil-Spec Coax, 75 Ohm, RG-179, 30 AWG (7x38) Silvered Copper Covered Steel Conductor, PTFE Insulation, 95% Silvered Copper Braid Shield, FEP Jacket, Commercial, non-QPL

Technical Specifications

Product Overview

| | |
|------------------------|-------------------------|
| Suitable Applications: | Aerospace, analog video |
|------------------------|-------------------------|

Construction Details

| | |
|----------|-----|
| RG Type: | 179 |
|----------|-----|

Conductor

| Size | Stranding | Nom. Diameter | Material |
|--------|-----------|---------------|--------------------------------------|
| 30 AWG | 7x38 | 0.012 in | SCCS - Silvered Copper Covered Steel |

Insulation

| Material | Nom. Insulation Diameter | Color Code |
|--------------------------------|--------------------------|------------|
| PTFE - Polytetrafluoroethylene | 0.063 in (1.6 mm) | White |

Outer Shield

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

Outer Jacket

| Material | Nom. Diameter |
|--------------------------------------|--------------------|
| FEP - Fluorinated Ethylene Propylene | 0.100 in (2.54 mm) |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.100 in (2.54 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Attenuation

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 1 MHz | 3.0 dB/100ft |
| 10 MHz | 5.3 dB/100ft |
| 50 MHz | 8.5 dB/100ft |
| 100 MHz | 10.0 dB/100ft |
| 200 MHz | 12.5 dB/100ft |
| 400 MHz | 16.0 dB/100ft |
| 700 MHz | 19.7 dB/100ft |
| 900 MHz | 22.3 dB/100ft |
| 1000 MHz | 24.0 dB/100ft |

Power Rating

| Frequency | Max. Power Rating |
|-----------|-------------------|
| 50 MHz | 1,250 W |

| | |
|-----------|-------|
| 100 MHz | 865 W |
| 200 MHz | 599 W |
| 400 MHz | 415 W |
| 700 MHz | 308 W |
| 900 MHz | 270 W |
| 1,000 MHz | 255 W |

Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|-----------------------------|----------------------------|---------------------------------|-------------------------------|------------------------|
| 232 Ohm/1000ft (761 Ohm/km) | 8.5 Ohm/1000ft (28 Ohm/km) | 19.5 pF/ft (64.0 pF/m) | 75 Ohm | 70% |

Voltage

| Voltage Rating |
|------------------|
| 900 V (Mil-Spec) |

Mechanical Characteristics

Temperature

| Operating |
|-----------------|
| -70°C to +200°C |

Bend Radius

| Installation Min. |
|-------------------|
| 1 in (25 mm) |

| | |
|--------------------|-----------------|
| Max. Pull Tension: | 17 lbs (7.7 kg) |
| Bulk Cable Weight: | 10 lbs/1000ft |

Standards and Compliance

| | |
|--------------------------------|--|
| Environmental Suitability: | Indoor/Outdoor, Indoor, Outdoor, Aerial - When supported by messenger wire |
| Sustainability: | CA Prop 65 |
| Military Compliance: | Commercial, non-QPL product (M17/94-RG179) |
| 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) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |

History

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|----------------------|--|
| Update and Revision: | Revision Number: 0.501 Revision Date: 04-13-2023 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|---------------|-------|------------|----------|--------------|----------|
| 83264 001100 | Brown | Reel | 100 ft | 612825203667 | E |
| 83264 001500 | Brown | Reel | 500 ft | 612825203681 | E |
| 83264 0011000 | Brown | Reel | 1,000 ft | 612825203674 | C E |

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