



**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

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.503 Revision Date: 04-29-2024 |
|----------------------|--|

## 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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