


Product: [83266](#) 

95 Ohm, RG180, 30 AWG SCCCS



Product Description

95 Ohm RG-180, 30 AWG Stranded (7x38) .012" silver-coated copper-covered steel conductor, PTFE insulation, silver-plated copper braid shield (90% coverage), FEP jacket, commercial non-QPL product.

Technical Specifications

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Nominal Diameter | No. of Coax |
|-----|-----------|--------------------------------------|------------------|-------------|
| 30 | Stranded | SCCS - Silvered Copper Covered Steel | 0.012 in | 1 |

Conductor Count: 1

Insulation

| Material | Nominal Diameter |
|--------------------------------|------------------|
| PTFE - Polytetrafluoroethylene | 0.102 in |

Outer Shield

| Type | Layer | Material | Coverage [%] |
|-------|-------|----------------------|--------------|
| Braid | 1 | Silvered Copper (SC) | 90% |

Outer Jacket

| Material | Nominal Diameter |
|--------------------------------------|------------------|
| FEP - Fluorinated Ethylene Propylene | 0.141 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|--------------------------|---------------------|
| 94 Ohm/1000ft | 6.5 Ohm/1000ft | 6.5 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 15 pF/ft |

Inductance

| Nominal Inductance |
|--------------------|
| 0.135 μ H/ft |

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 95 Ohm |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz | 2.4 dB/100ft |
| 10 MHz | 3.3 dB/100ft |

| | |
|----------|---------------|
| 50 MHz | 4.6 dB/100ft |
| 100 MHz | 5.7 dB/100ft |
| 200 MHz | 7.6 dB/100ft |
| 400 MHz | 10.7 dB/100ft |
| 700 MHz | 14.9 dB/100ft |
| 900 MHz | 15.9 dB/100ft |
| 1000 MHz | 17 dB/100ft |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.46 ns/ft | 70% |

Temperature Range

| | |
|-----------------------|-----------------|
| Non-UL Temp Rating: | 200°C |
| Operating Temp Range: | -70°C To +200°C |

Mechanical Characteristics

| | |
|------------------------------|---------------|
| Bulk Cable Weight: | 18 lbs/1000ft |
| Max. Pull Tension: | 22 lbs |
| Min. Bend Radius/Minor Axis: | 1.5 in |

Standards

| | |
|--------------------------------|--|
| RG Type: | 180 |
| Military Compliance: | Commercial, non-QPL product (M17/95-RG180) |
| Qualified Products List (QPL): | No |

Applicable Environmental and Other Programs

| | |
|--|-------------------------------|
| Environmental Space: | Indoor (Not Riser or Plenum) |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2011/65/EU (RoHS 2): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | No |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|------------------------------------|--|
| Suitability - Aerial: | Yes - When supported by messenger wire |
| Suitability - Burial: | No |
| Suitability - Hazardous Locations: | No |
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes |

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Part Number

Variants

| Item # | Color | Put-Up Type | Length | UPC |
|---------------|-------|-------------|----------|--------------|
| 83266 0011000 | Brown | Reel | 1,000 ft | 612825203735 |

Footnote: C - CRATE REEL PUT-UP., E - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'.

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.230 Revision Date: 12-15-2021 |
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