

.118 Semi-Rigid Coax Cable with a Bare Copper Outer Conductor in Coiled Sections

.118 diameter semi-rigid coaxial cable is the cable of choice for many RF and Microwave engineers. This form factor is widely used in the RF industry and many connector series and configurations are available for this cable. Because of the solid copper wall design the cable can be formed using proper tooling with a minimum inside bend radius of .4 inches.

Electrical Specifications

| Description | Min | Typ | Max | Units |
|-----------------|-----|-----|-------|-------|
| Frequency Range | DC | | 46 | GHz |
| Impedance | | 50 | | Ohms |
| DWV (AC) | | | 3,000 | Vrms |

Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|--------------------|---------------|----------------|----------------|----|----|---------------------|
| Frequency | 1 | 10 | 20 | | | GHz |
| Attenuation, Typ | 12.5 41.01 | 42.5 139.44 | 62.5 205.05 | | | dB/100ft dB/100m |
| Power In (CW), Max | 500 | 144 | 96 | | | Watts |

Mechanical Specifications

Min. Bend Radius (Installation) 0.4 in [10.16 mm]

Construction Specifications

| Description | Material and Plating | Diameter |
|-----------------|----------------------|--------------------|
| Inner Conductor | Copper, Silver | 0.032 in [0.81 mm] |
| Conductor Type | Solid | |
| Dielectric | PTFE (LD) | 0.097 in [2.46 mm] |
| Outer Conductor | Copper, Bare | 0 in [0 mm] |

Environmental Specifications

Temperature

Operating Range -55 to +200 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:



Configuration:

- Semi-Rigid Cable
- 0 Shield(s)

Features:

- Silver Plated Copper Clad Steel center conductor
- PTFE dielectric material
- Copper Clad Steel Bare Outer Conductor
- Operating to 46 GHz
- Minimum inside bend radius of .4 inches
- ROHS compliant

Applications:

- RF and Microwave Cable Assemblies to 46 GHz
- Preformed cable assemblies to insure fit and layout
- Test Equipment port jumpers

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.118 Semi-Rigid Coax Cable with a Bare Copper Outer Conductor in Coiled Sections from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

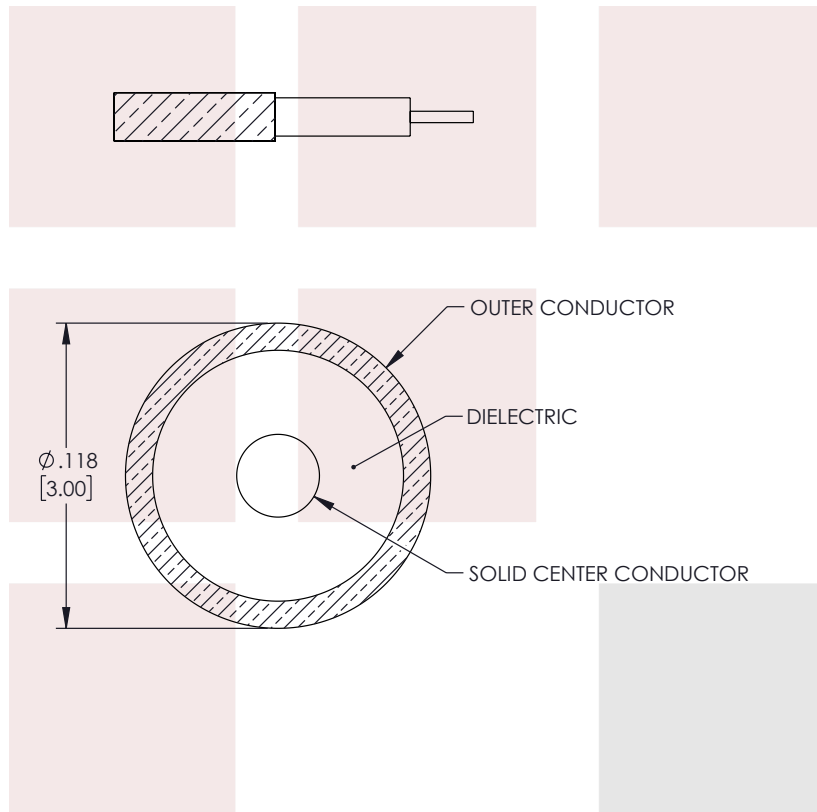
Click the following link to obtain additional part information: [.118 Semi-Rigid Coax Cable with a Bare Copper Outer Conductor in Coiled Sections FM-SR118CU-CL-BULK](#)

URL: <https://www.fairviewmicrowave.com/.118-semi-rigid-coax-cable-copper-fm-sr118cu-cl-bulk-p.aspx>

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| REVISIONS | | | |
|-----------|-----------------|------------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 03/24/2022 | AGANWANI |



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|---|--|-------------------|--|----------|
| <p>Fairview Microwave an INFINIT[®] brand</p> | <p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> | | <p>THIRD-ANGLE PROJECTION</p> | |
| | <p>TOLERANCES:</p> <p>.X = ±.2 [5.08] FRACTIONS ± 1/32 .XX = ±.02 [.51] ANGLES ± 1° .XXX = ±.005 [.13]</p> | | <p>CABLE LENGTH (L) TOLERANCES:</p> <p>L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0</p> | |
| <p>TITLE</p> <p>.118 Semi-Rigid Coax Cable with a Bare Copper Outer Conductor in Coiled Sections</p> | | | <p>SHEET 1 OF 1</p> | |
| <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p> | | | <p>SCALE N/A</p> | |
| SIZE A | CAGE CODE 3FKR5 | DRAWN BY DZINN | ITEM NO. FM-SR118CU-CL-BULK | REV A |

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