

RA SMB Plug Connector Crimp/Solder Attachment For 0.100 inch, RG316, RG174, RG188, LMR-100, LMR-100A, LMR-100A-FR Cable

RA SMB plug connector with crimp/solder attachment for 0.100 inch, RG316, RG174, RG188, LMR-100, LMR-100A and LMR-100A-FR, part number SC8846, from Fairview Microwave is in-stock and ships same day. This SMB plug connector operates up to a maximum frequency of 4 GHz and offers good VSWR of 1.3:1. Its right angle body geometry facilitates connections in tight spaces.

Fairview's RA SMB plug connector SC8846 datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		4	GHz
VSWR			1.3:1	
Operating Voltage (AC)			335	Vrms

Mechanical Specifications

Size	
Length	0.565 in [14.35 mm]
Width/Dia.	0.256 in [6.50 mm]
Height	0.451 in [11.46 mm]
Weight	0.011 lbs [4.99 g]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 30 µin minimum
Insulation	PTFE	
Body	Brass	Gold 3 µin minimum

Environmental Specifications

Temperature	
Operating Range	-65 to +165 deg C

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

Plotted and Other Data

Notes:



Configuration:

- SMB Plug Connector
- MIL-STD-348A
- 50 Ohms
- Right Angle Body Geometry
- 0.100 inch, RG316, RG174, RG188, LMR-100, LMR-100A, LMR-100A-FR Interface Type
- Crimp/Solder Attachment

Features:

- Operating Frequency of 4 GHz Max.
- Good VSWR of 1.3:1
- Gold Plated Beryllium Copper Contact
- 30 µin minimum contact plating

Applications:

- General Purpose Test
- Custom Cable Assemblies

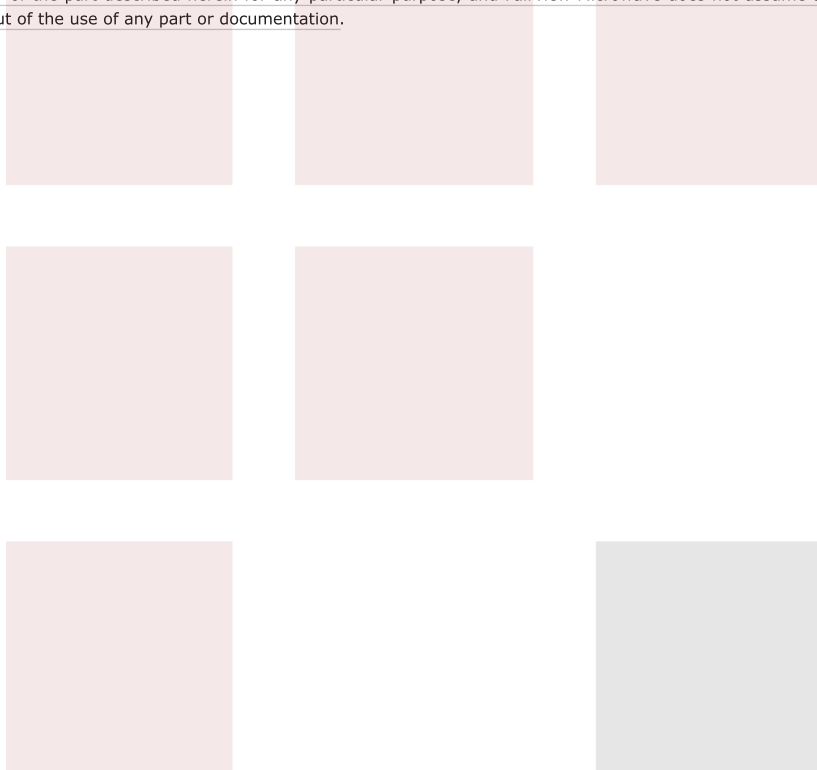
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www.fairviewmicrowave.com
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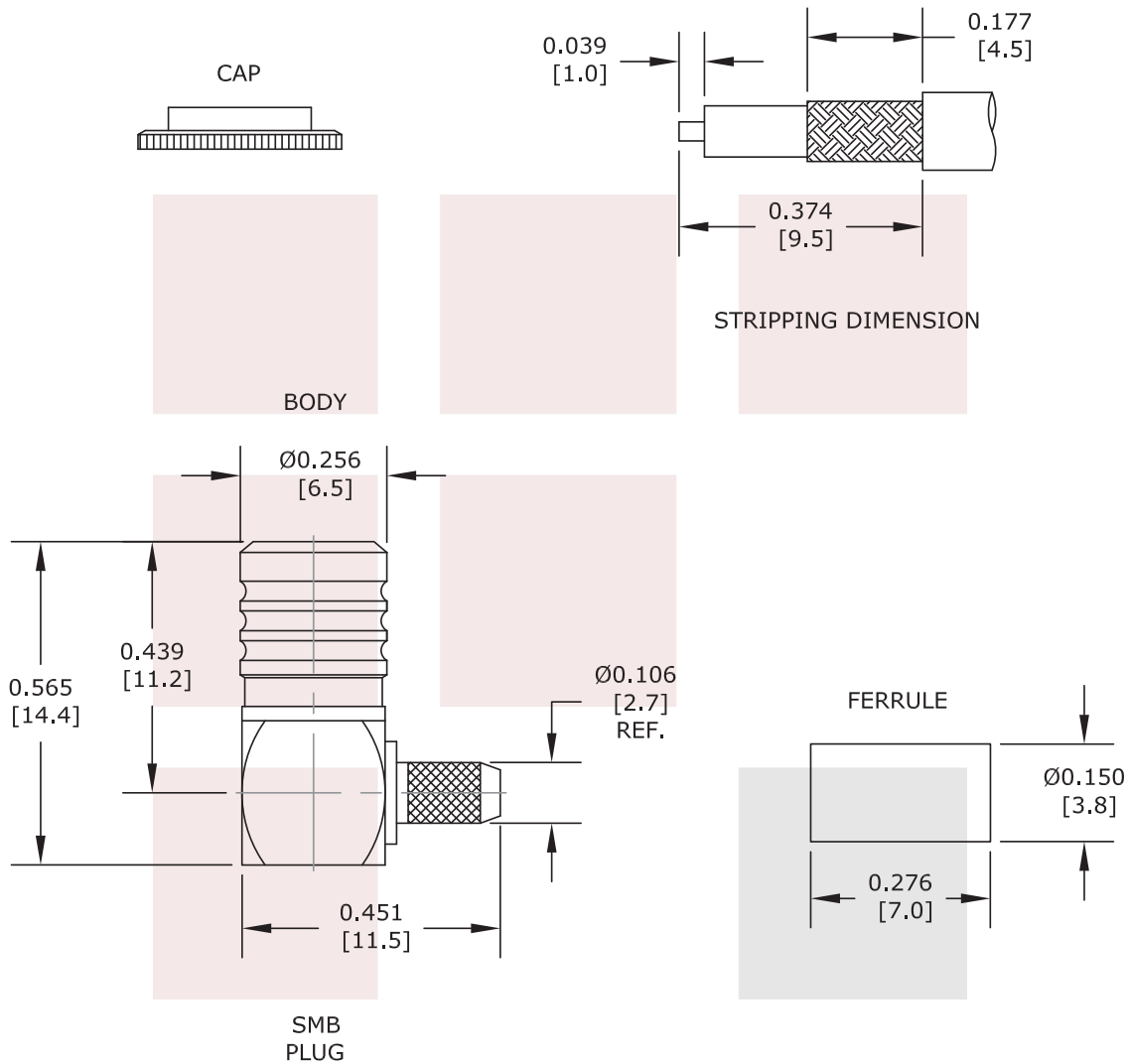
RA SMB Plug Connector Crimp/Solder Attachment For 0.100 inch, RG316, RG174, RG188, LMR-100, LMR-100A, LMR-100A-FR Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [RA SMB Plug Connector Crimp/Solder Attachment For 0.100 inch, RG316, RG174, RG188, LMR-100, LMR-100A, LMR-100A-FR Cable SC8846](#)

URL: <https://www.fairviewmicrowave.com/smb-plug-standard-rg316-rg174-connector-sc8846-p.aspx>

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STANDARD TOLERANCES

.X ±0.2
.XX ±0.1
.XXX ±0.05

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

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ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM

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DWG NO

SC8846

CAGE CODE

3FKR5

CAD FILE

120716

SHEET

SCALE N/A

SIZE A

41742

SSMC Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188, 0.100 inch, LMR-100, LMR-100A, LMR-100A-FR Cable

SSMC plug connector with crimp/solder attachment for RG316, RG174, RG188, 0.100 inch, LMR-100, LMR-100A and LMR-100A-FR, part number SC8860, from Fairview Microwave is in-stock and ships same day. This SSMC plug connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.5:1.

Fairview's SSMC plug connector SC8860 datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		12.4	GHz
VSWR			1.5:1	
Insulation Resistance	1,000			MOhms

Mechanical Specifications

Size	
Length	0.787 in [19.99 mm]
Weight	0.005 lbs [2.27 g]
Mating Cycles	500 Cycles
Mating Torque	1 in-lbs [0.11 Nm]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Body	Beryllium Copper	Gold
Coupling Nut	Brass	Gold

Environmental Specifications

Temperature

Operating Range	-45 to +120 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:



Configuration:

- SSMC Plug Connector
- 50 Ohms
- Straight Body Geometry
- RG316, RG174, RG188, 0.100 inch, LMR-100, LMR-100A, LMR-100A-FR Interface Type
- Crimp/Solder Attachment
- 5/32 inch Hex

Features:

- Operating Frequency of 12.4 GHz Max.
- Good VSWR of 1.5:1
- Gold Plated Beryllium Copper Contact

Applications:

- General Purpose Test
- Custom Cable Assemblies

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SSMC Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188, 0.100 inch, LMR-100, LMR-100A, LMR-100A-FR Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

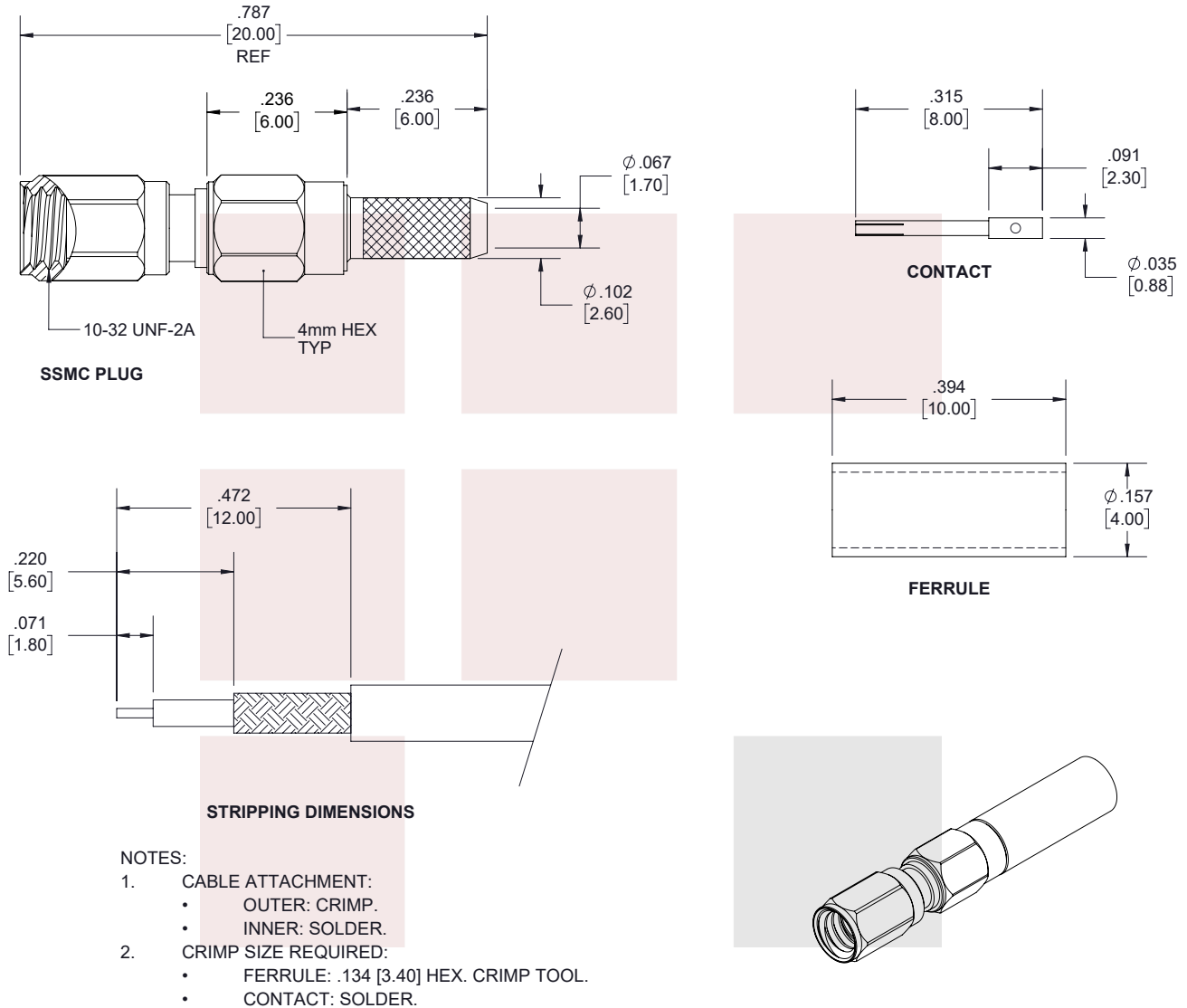
For additional information on this product, please click the following link: [SSMC Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188, 0.100 inch, LMR-100, LMR-100A, LMR-100A-FR Cable SC8860](#)

URL: <https://www.fairviewmicrowave.com/ssmc-male-rg316-rg174-rg188-0.100-lmr-100-lmr-100a-lmr-100a-fr-connector-sc8860-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PCR PE45209/ SC8860 2011127	12/13/19	S.ELLIS



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TITLE

SSMC Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188, 0.100 inch, LMR-100, LMR-100A, LMR-100A-FR Cable

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [5.08] FRACTIONS
.XX = ±.02 [.51] ± 1/32
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

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

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE

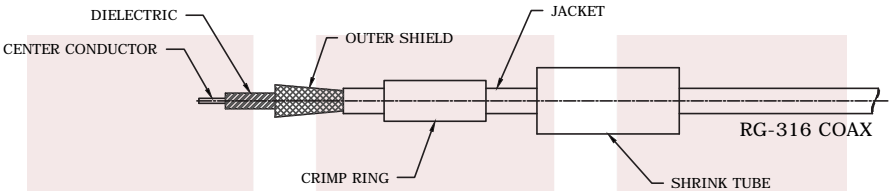
N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	K.DANG	SC8860	A

T-Rev.D



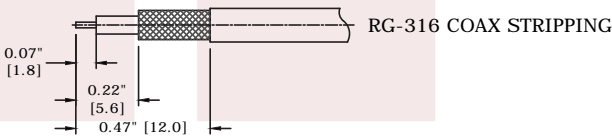
STEP 1 - STRIP THE COAX



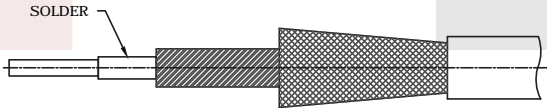
1.1 SLIDE SHRINK TUBE AND CRIMP RING
ONTO CABLE

1.2 STRIP CABLE JACKET, OUTER SHIELD, DIELECTRIC AND
CENTER CONDUCTOR TO DIMENSIONS SHOWN

1.3 FLARE OUTER SHIELD AS SHOWN



STEP 2 - PIN SOLDERING



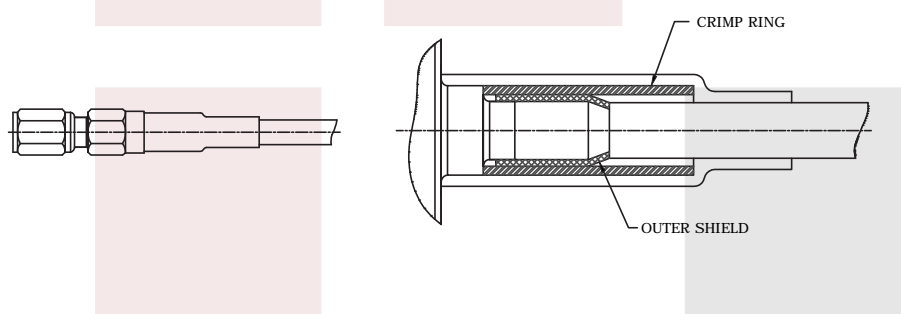
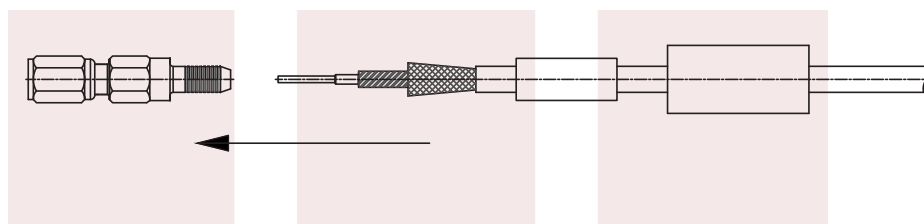
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TITLE
SSMC Plug Connector Crimp/Solder Attachment for
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3. DIMENSIONS ARE IN INCHES [mm].

DWG NO		SC8860		CAGE CODE	
				3FKR5	
CAD FILE	020916	SHEET	SCALE	N/A	SIZE A 5568



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<div>TITLE</div> <div>SSMC Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188, 0.100 inch, LMR-100, LMR-100A, LMR-100A-FR Cable</div>				<div>DWG NO</div> <div>SC8860</div>		<div>CAGE CODE</div> <div>3FKR5</div>	
				<div>CAD FILE</div> <div>020916</div>	<div>SHEET</div>	<div>SCALE</div> <div>N/A</div>	<div>SIZE</div> <div>A</div>

RG316 Flexible Coax Cable FEP Jacket

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Velocity of Propagation		69		%
Operating Voltage (AC)			1,200	Vrms
DWV (AC)			2,000	Vrms
Jacket Spark			2,000	Vrms
Nominal Capacitance		29.4		pF/ft
		[96.46]		[pF/m]

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.05	0.1	0.4	1	3	GHz
Attenuation, Typ	7.5	11	21	38	58	dB/100ft
	24.61	36.09	68.9	124.67	190.29	dB/100m

Mechanical Specifications

Diameter	0.102 in [2.59 mm]
Weight	0.01 lbs/ft [0.01 Kg/m]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 7 Strands	0.02 in [0.51 mm]
Conductor Type	Stranded	
Dielectric	PTFE	0.06 in [1.52 mm]
First Shield	Silver Plated Copper Braid	
Jacket	FEP	0.102 in [2.59 mm]

Environmental Specifications

Temperature

Operating Range	-55 to +200 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:



Configuration:

- Flexible Cable
- 1 Shield(s)

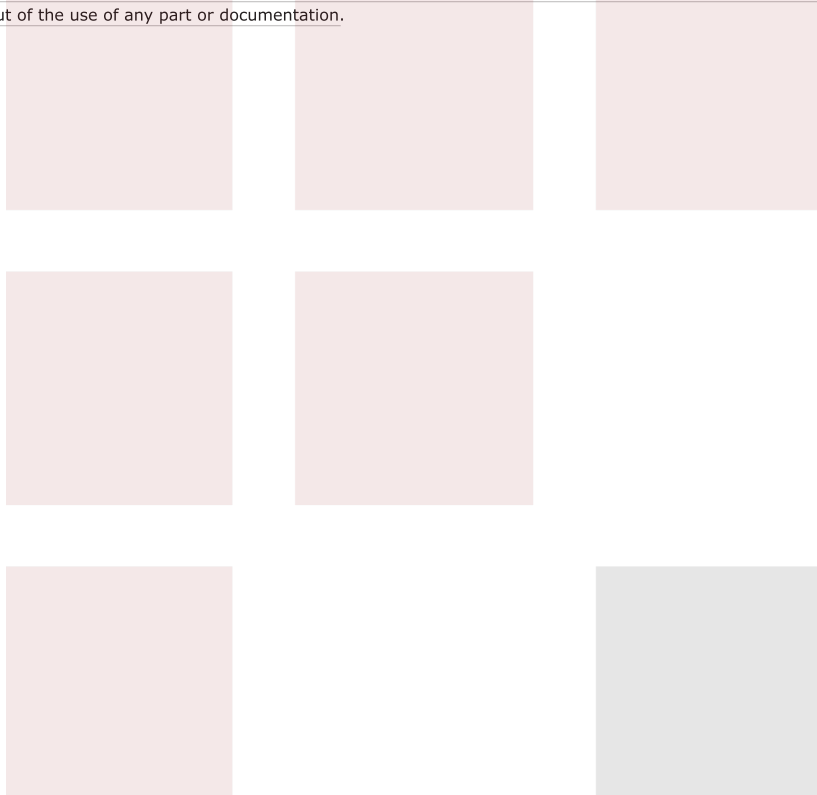
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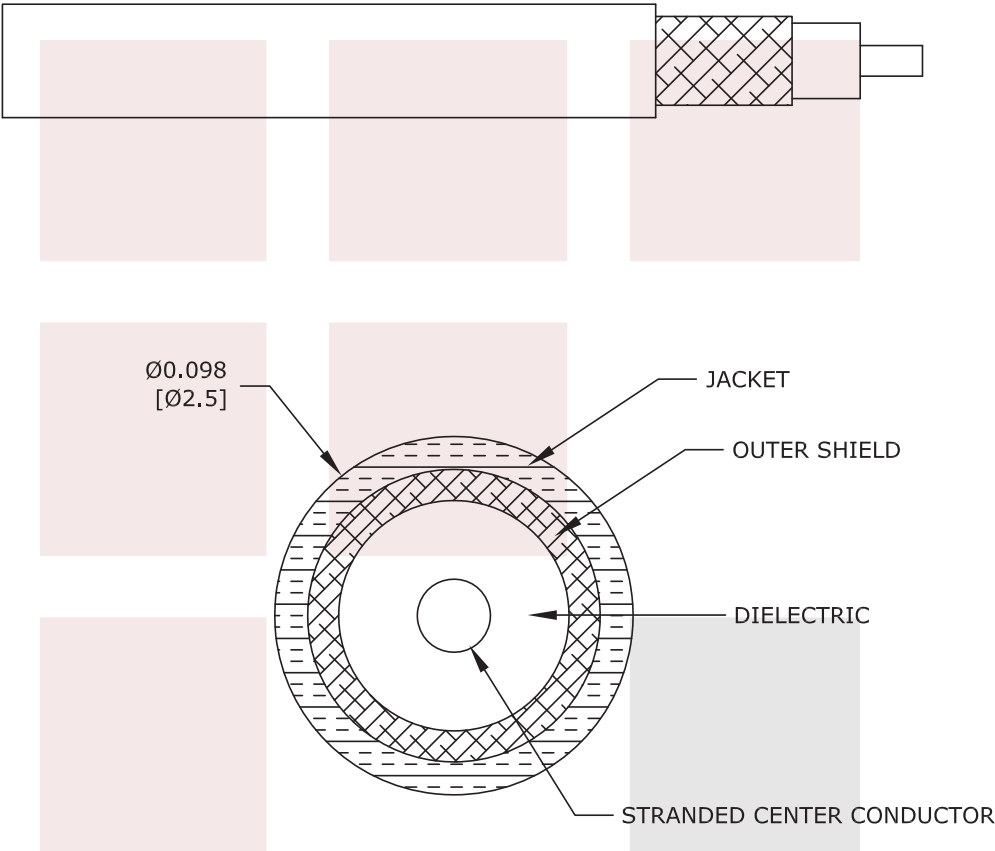
RG316 Flexible Coax Cable FEP Jacket from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [RG316 Flexible Coax Cable FEP Jacket RG316](#)

URL: <https://www.fairviewmicrowave.com/rg316-flexible-coax-cable-fep-jacket-rg316-p.aspx>

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TITLE RG316 Flexible Coax Cable FEP Jacket	DWG NO RG316		CAGE CODE 3FKR5		
	CAD FILE 111816	SHEET	SCALE N/A	SIZE A	41742