

## 1.0/2.3 Plug Right Angle Connector Crimp/Solder Attachment For RG316-DS, RG188-DS

RA 1.0/2.3 plug connector with crimp/solder attachment for RG316-DS and RG188-DS, part number FMCN1822, from Fairview Microwave is in-stock and ships same day. Its right angle body geometry facilitates connections in tight spaces.

Fairview's RA 1.0/2.3 plug connector FMCN1822 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.

### Mechanical Specifications

#### Size

Length	0.77 in [19.56 mm]
Width/Dia.	0.315 in [8.00 mm]
Height	0.78 in [19.81 mm]
Weight	0.013 lbs [5.9 g]

### Material Specifications

Description	Material	Plating
Contact	Brass	Gold 30μ in. minimum
Insulation	Teflon	
Body	Brass	Nickel 100μ in. minimum
Coupling Nut	Brass	Nickel 100μ in. minimum

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

### Plotted and Other Data

Notes:



### Configuration:

- 1.0/2.3 Plug Connector
- 50 Ohms
- Right Angle Body Geometry
- RG316-DS, RG188-DS Interface Type
- Crimp/Solder Attachment

### Features:

- Gold Plated Brass Contact
- 30μ in. minimum contact plating

### Applications:

- General Purpose Test
- Custom Cable Assemblies

Fairview Microwave  
301 Leora Ln., Suite 100  
Lewisville, TX 75056  
Tel: 1-800-715-4396 / (972) 649-6678  
Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

1.0/2.3 Plug Right Angle Connector Crimp/Solder Attachment For RG316-DS, RG188-DS 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.

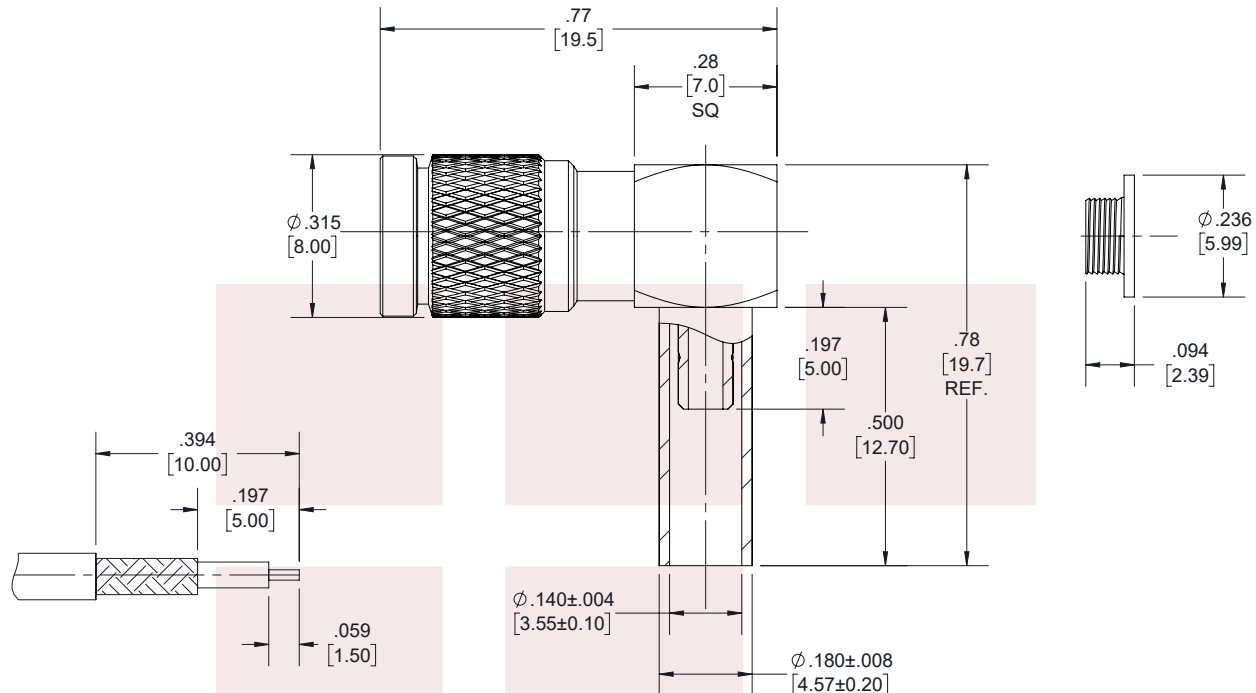
For additional information on this product, please click the following link: [1.0/2.3 Plug Right Angle Connector Crimp/Solder Attachment For RG316-DS, RG188-DS FMCN1822](#)

URL: <https://www.fairviewmicrowave.com/1.0-2.3-plug-rg316-ds-rg188-ds-connector-fmcn1822-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	02/11/2022	A.GANWANI



#### STRIPPING DIMENSIONS

#### NOTES:

- CABLE ATTACHMENT:
  - OUTER: CRIMP.
  - INNER: SOLDER.
- CRIMP SIZE REQUIRED:  
FERRULE: .151" [3.84] HEX. CRIMP TOOL

#### ASSEMBLY PROCEDURES

- STRIP CABLE AS SHOWN. SLIDE FERRULE OVER CABLE.
- INSTALL CABLE INTO BODY OF CONNECTOR AND SOFT SOLDER CENTER CONDUCTOR IN PLACE.
- CRIMP FERRULE, INSERT INSULATOR AND SCREW CAP.

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TITLE

1.0/2.3 Plug Right Angle Connector Crimp/Solder Attachment For RG316-DS, RG188-DS

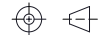
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [5.08]	FRACTIONS	L ≤ 12 [305] = +1 [25] / -0
.XX = ±.02 [5.1]	± 1/32	12 [305] < L ≤ 60 [1524] = +2 [51] / -0
.XXX = ±.005 [1.3]	ANGLES ± 1°	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
		120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
		300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY K.GLEBOVA	ITEM NO. FMCN1822	REV A
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T-Rev.D

## RA MMBX Plug Snap-On Connector Crimp/Solder Attachment For RG316DS, RG188DS Cable With Male Center Contact

RA MMBX plug snap-on connector crimp/solder attachment RG316DS and RG188DS cable FMCN1021 from Fairview Microwave is in-stock and ships same day. This MMBX plug connector operates up to a maximum frequency of 3 GHz and offers excellent VSWR of 1.2:1. Its RA body geometry facilitates connections in tight spaces.

Fairview's RA MMBX plug connector FMCN1021 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 connector assemblies for you and ship them same-day.

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		3	GHz
VSWR			1.2:1	
Insertion Loss			0.31	dB
Operating Voltage (DC)			250	Vdc
DWV (DC)			750	Vdc
Insulation Resistance	1,000			MOhms

Electrical Specification Notes:  
MMBX Plug has a male center contact

### Mechanical Specifications

<b>Size</b>	
Length	0.51 in [12.95 mm]
Width/Dia.	0.24 in [6.10 mm]
Weight	0.0071 lbs [3.22 g]
Mating Cycles	100 Cycles

### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Outer Conductor	Brass	Gold
Body	Brass	Gold



### Configuration:

- Snap-On MMBX Plug Connector
- 50 Ohms
- Right Angle Body Geometry
- RG316DS, RG188DS Interface Type
- Crimp/Solder Attachment

### Features:

- Operating Frequency of 3 GHz Max.
- Excellent VSWR of 1.2:1
- Gold Plated Beryllium Copper Contact
- Snap-On connection method
- Small circuit footprint for high density applications
- Allows up to 4.5°/0.7mm Max mechanical misalignment

### Applications:

- General Purpose Test
- Custom Cable Assemblies
- Circuit board test points
- Blind mate interconnect applications
- Multi circuit board products
- Board to board applications

Fairview Microwave  
1130 Junction Dr. #100  
Allen, TX 75013  
Tel: 1-800-715-4396 / (972) 649-6678  
Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

## Environmental Specifications

### Temperature

Operating Range -55 to +155 deg C

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

## Plotted and Other Data

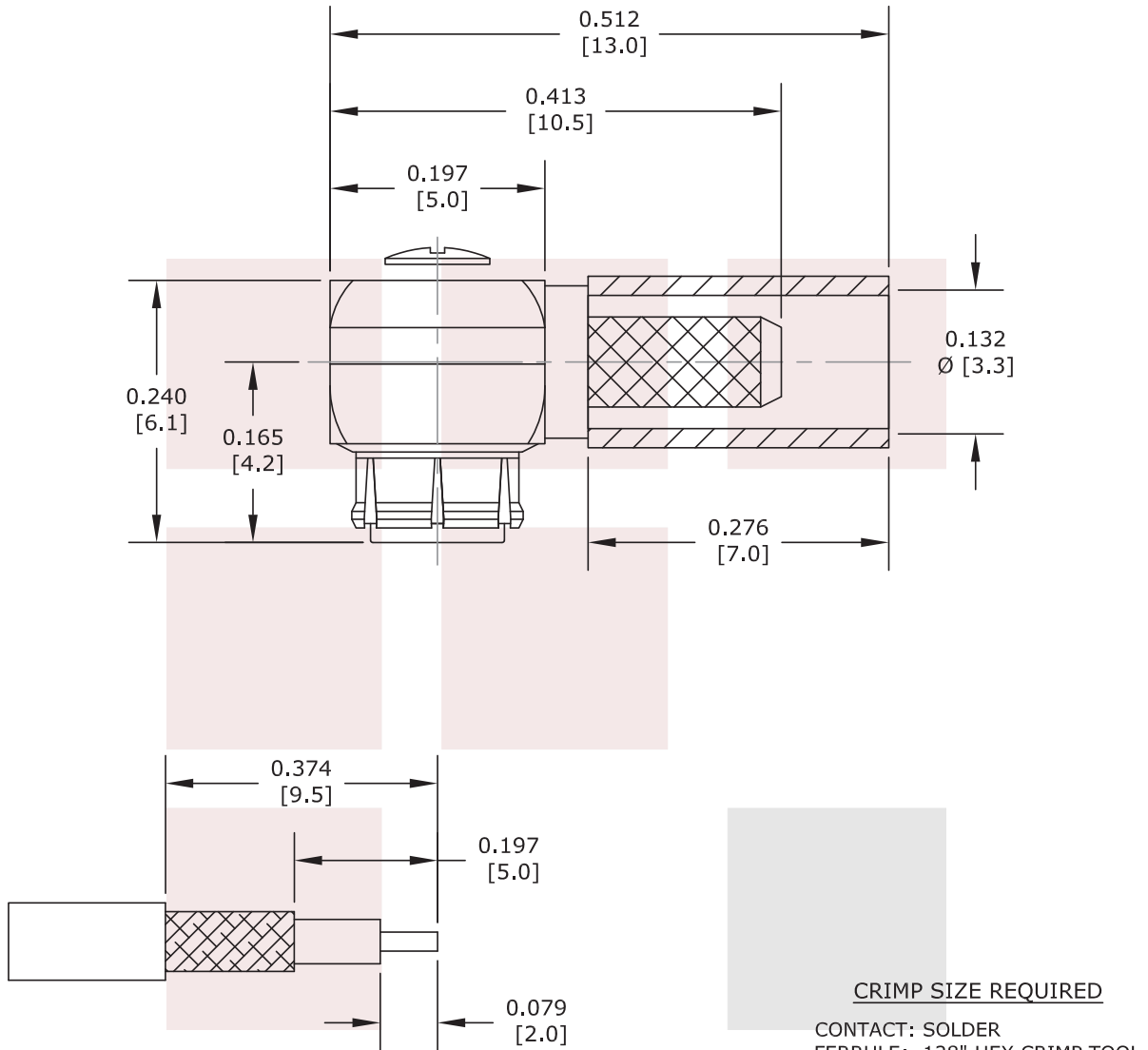
Notes:

RA MMBX Plug Snap-On Connector Crimp/Solder Attachment For RG316DS, RG188DS Cable With Male Center Contact 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 MMBX Plug Snap-On Connector Crimp/Solder Attachment For RG316DS, RG188DS Cable With Male Center Contact FMCN1021](#)

URL: <https://www.fairviewmicrowave.com/mmbx-plug-snap-on-rg316ds-rg188ds-connector-fmcn1021-p.aspx>

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**STRIPPING DIMENSIONS**

**ASSEMBLY PROCEDURES**

1. STRIP CABLE AS SHOWN & TIN CENTER CONDUCTOR. SLIDE FERRULE OVER CABLE.
2. INSTALL CABLE INTO BODY OF CONNECTOR & SOLDER CENTER CONDUCTOR IN PLACE.
3. CRIMP FERRULE. INSERT PTFE & PRESS CAP DOWN.

**STANDARD TOLERANCES**

.X ±0.2  
.XX ±0.1  
.XXX ±0.05

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

<b>FAIRVIEW MICROWAVE INC.</b> ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].			
TITLE RA MMBX Plug Snap-On Connector Crimp/Solder Attachment For RG316DS, RG188DS Cable With Male Center Contact		DWG NO FMCN1021		CAGE CODE 3FKR5	
CAD FILE	090116	SHEET	SCALE	N/A	SIZE A 2233

**RG316-DS Flexible Coax Cable Tan FEP Jacket**
**Electrical Specifications**

Description	Min	Typ	Max	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Velocity of Propagation		96.5		%
Shielding Effectiveness	85			dB
Operating Voltage (AC)			1,200	Vrms
Inner Conductor DC Resist.			83.82	Ohms/1000ft
Outer Conductor DC Resist.			5.33	Ohms/1000ft
Nominal Capacitance		28.96 [95.01]		pF/ft [pF/m]
Insulation Resistance	304.8			MOhms/1Kft


**Configuration:**

- Flexible Cable
- 2 Shield(s)

**Performance by Frequency Band**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.4	1	2	3	GHz
Attenuation, Max	10.97 35.99	20.97 68.8	37.95 124.51	45.05 147.8	57.94 190.09	dB/100ft dB/100m
Attenuation, Typ	8.29 27.2	17.5 57.41	29 95.14	39.41 129.3	53.55 175.69	dB/100ft dB/100m
Power In (CW), Max	375	185	120	85	65	Watts

**Mechanical Specifications**

Diameter	0.114 in [2.9 mm]
Weight	0.015 lbs/ft [0.02 Kg/m]
Min. Bend Radius (Installation)	0.59 in [14.99 mm]
Min. Bend Radius (Repeated)	1.57 in [39.88 mm]

**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	
Second Shield	Silver Plated Copper Braid	0.094 in [2.39 mm]
Jacket	FEP, Tan	0.114 in [2.9 mm]

Fairview Microwave  
 301 Leora Ln., Suite 100  
 Lewisville, TX 75056  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

**Environmental Specifications****Temperature**

Operating Range

-55 to 200 deg C

Storage Range

0 to 40 deg C

**Compliance Certifications** (see [product page](#) for current document)**Plotted and Other Data**

Notes:

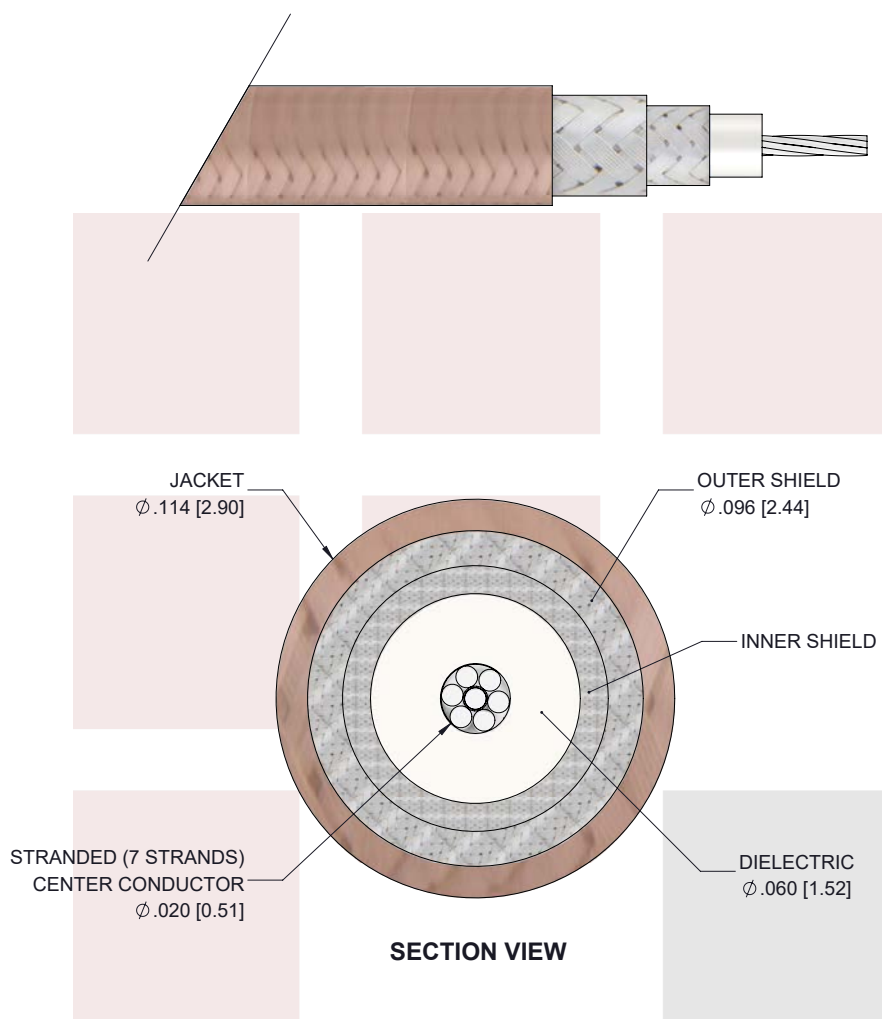
RG316-DS Flexible Coax Cable Tan FEP Jacket from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

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

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

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**STANDARD TOLERANCES**

.X ±0.2  
.XX ±0.01  
.XXX ±0.005

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES

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<b>TITLE</b> RG316-DS Flexible Coax Cable Tan FEP Jacket		<b>DWG NO</b> RG316-DS		<b>CAGE CODE</b> 3FKR5		
CAD FILE	07/17/19	SHEET	1 OF 1	SCALE	N/A	SIZE A 7361