

Reverse Polarity SMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG188-DS, RG316-DS, .235 inch D Hole

RP SMA female bulkhead connector with crimp/solder attachment for RG188-DS and RG316-DS (.235 inch D hole), part number FMCN1886, from Fairview Microwave is in-stock and ships same day. Our reverse polarity female configuration uses a female connector body with a male inner contact pin. This SMA female connector operates up to a maximum frequency of 3 GHz and offers good VSWR of 1.5:1. Fairview's FMCN1886 bulkhead SMA connector enables designers to make external connections on product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Fairview's RP SMA female bulkhead connector FMCN1886 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		3	GHz
VSWR			1.5:1	

Mechanical Specifications

Size	
Length	1.08 in [27.43 mm]
Width/Dia.	0.312 in [7.92 mm]
Height	0.5 in [12.7 mm]
Weight	0.006 lbs [2.72 g]

Material Specifications

Description	Material	Plating
Contact		Gold
Insulation	PTFE	
Body	Brass	Nickel

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

Plotted and Other Data

Notes:



Configuration:

- SMA Female Reverse Polarity Connector
- 50 Ohms
- Straight Body Geometry
- RG188-DS, RG316-DS Interface Type
- Crimp/Solder Attachment
- Bulkhead

Features:

- Operating Frequency of 3 GHz Max.
- Good VSWR of 1.5:1
- Reverse Polarity
- Gold Plated Contact

Applications:

- General Purpose Test
- Rack and Panel Mount Applications
- 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
sales@fairviewmicrowave.com

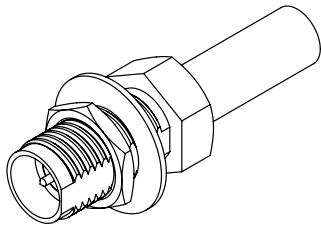
Reverse Polarity SMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG188-DS, RG316-DS, .235 inch D Hole from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Reverse Polarity SMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG188-DS, RG316-DS, .235 inch D Hole FMCN1886](#)

URL: <https://www.fairviewmicrowave.com/sma-female-reverse-polarity-rg188-ds-rg316-ds-connector-fmcn1886-p.aspx>

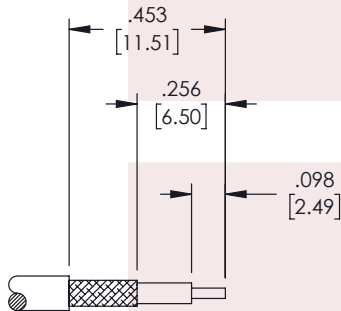
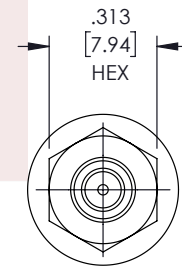
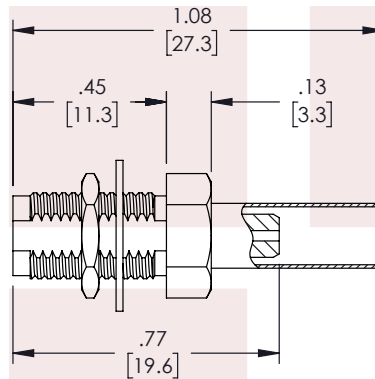
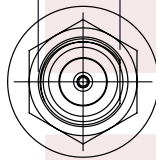
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to 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	02/21/2022	AGANWANI

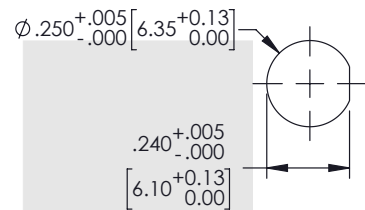
.237
[6.02]
FLAT



STRIPPING DIMENSIONS

ASSEMBLY INSTRUCTIONS

CRIMP SIZE REQUIRED:
CONTACT: SOLDER
FERRULE: .128 [3.25] HEX CRIMP TOOL



MOUNTING HOLE

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

TITLE

Reverse Polarity SMA Female Bulkhead Mount
Connector Crimp/Solder Attachment for RG188-DS,
RG316-DS, .235 inch D Hole

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

TOLERANCES:

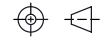
.X = ±.2 [5.08] FRACTIONS
.XX = ±.02 [.51] ± 1/32
XXX = ±.005 [.13] ANGLES ± 1°

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

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION



THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
FAIRVIEW MICROWAVE CORPORATION.
ALL RIGHTS RESERVED.

SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	A.KRESOWSKI	FMCN1886	A

T-Rev.D

BNC Female (Jack) Bulkhead Connector Crimp Attachment for RG316-DS Cable



FMCN5252

Configuration

- BNC Female Connector
- MIL-STD-348B
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG316-DS
- Bulkhead

Features

- Operating Frequency of 2.8 GHz Max.
- Excellent VSWR of 1.2:1
- Gold over Nickel over Copper Plated Phosphor Bronze Contact
- IP67

Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

Description

BNC Female Bulkhead Mount Connector Crimp Attachment for RG316-DS Cable, IP67 Mated, part number FMCN5252, from Fairview Microwave is in-stock and ships same day. This BNC female connector operates up to a maximum frequency of 2.8 GHz and offers excellent VSWR of 1.2:1. Fairview's FMCN5252 bulkhead BNC connector enables designers to make external connections on product enclosures, and can be used in a variety of other rack mount and panel mount applications. Our FMCN5252 connector has an IP67 rating to protect against dust and temporary moisture protection under immersion conditions.

Fairview's BNC female bulkhead connector FMCN5252 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	Minimum	Typical	Maximum	Units
Frequency Range	DC		2.8	GHz
VSWR			1.2:1	
Insertion Loss			0.167	dB
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Inner Conductor DC Resistance			1.5	mOhms
Outer Conductor DC Resistance			1	mOhms
Insulation Resistance	5,000			MOhms
Impedance		50		Ohms

Mechanical Specifications

Size

Length	1.142 in [29.01 mm]
Width	0.5 in [12.7 mm]
Height	0.5 in [12.7 mm]
Weight	0.035 lbs [15.88 g]

BNC Female (Jack) Bulkhead Connector Crimp Attachment for RG316-DS Cable



FMCN5252

Mating Cycles	500 Cycles
Mating Torque	0.6 to 2.5 in-lbs [[0.07 to 0.28 Nm]]

Material Specifications

Description	Material	Plating
Contact	Phosphor Bronze	Gold over Nickel over Copper
Insulation	PTFE	
Body	Brass	Copper-Tin-Zinc Alloy
Coupling Nut	Brass	Copper-Tin-Zinc Alloy
Crimp Sleeve	Brass	Copper-Tin-Zinc Alloy
Washer	Brass	Copper-Tin-Zinc Alloy

Environmental Specifications

Temperature	
Operating Range	-65 to +165 deg C
Ingress Protection (IP) Rating	IP67
Humidity	MIL-STD-202, Method 106
Thermal Shock	MIL-STD-202, Method 107, Condition B
Salt Spray	MIL-STD-202, Method 101, Condition B

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

Plotted and Other Data

Notes:

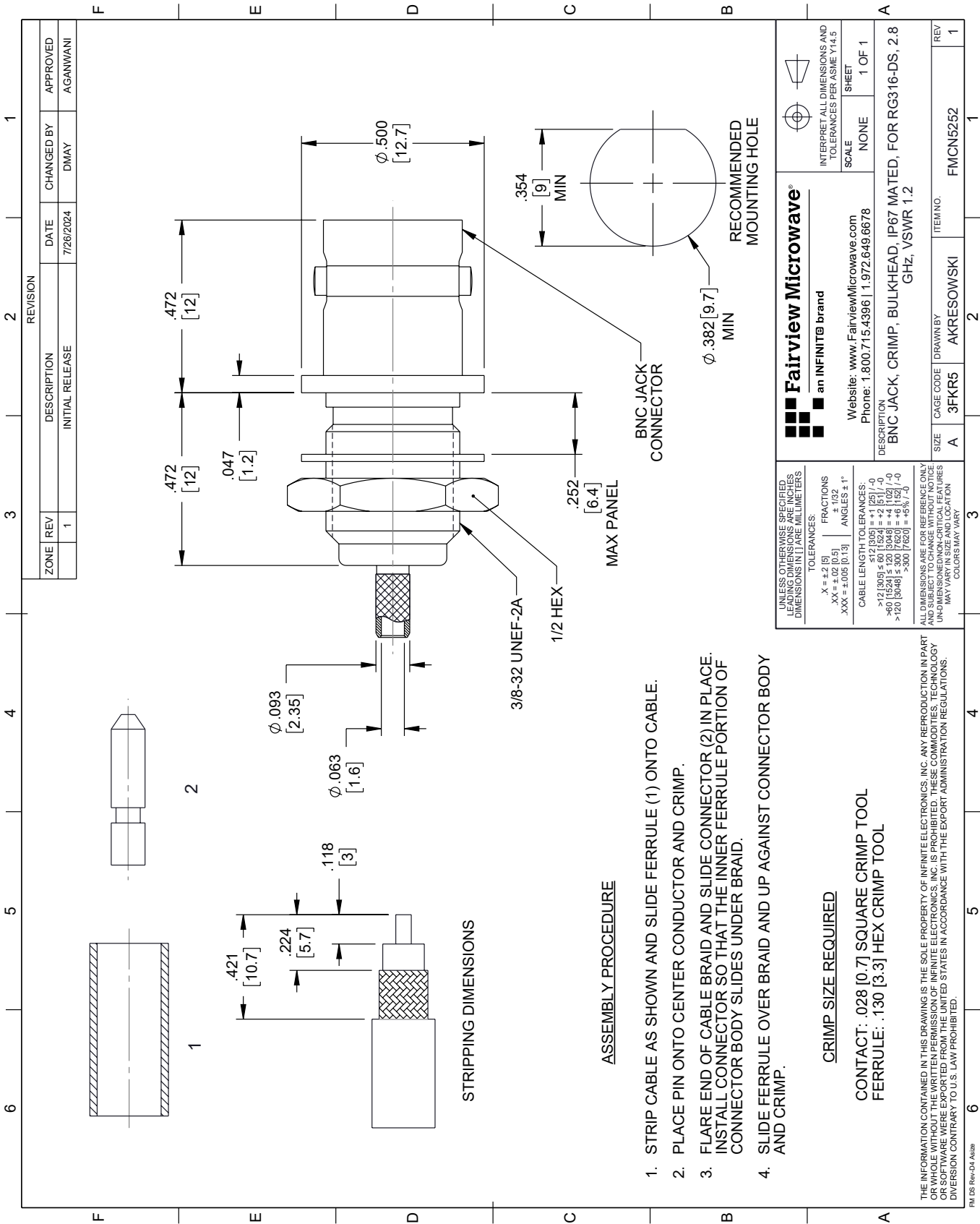
BNC Female (Jack) Bulkhead Connector Crimp Attachment for RG316-DS Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [BNC Female \(Jack\) Bulkhead Connector Crimp Attachment for RG316-DS Cable FMCN5252](#)

URL: <https://www.fairviewmicrowave.com/product/rf-connectors/bnc-female-rg316-ds-connector-fmcn5252.html>

The information contained within 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 liability arising out of the use of any part or document.

FMCN5252 CAD Drawing
BNC Female (Jack) Bulkhead Connector Crimp Attachment for RG316-DS Cable



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
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

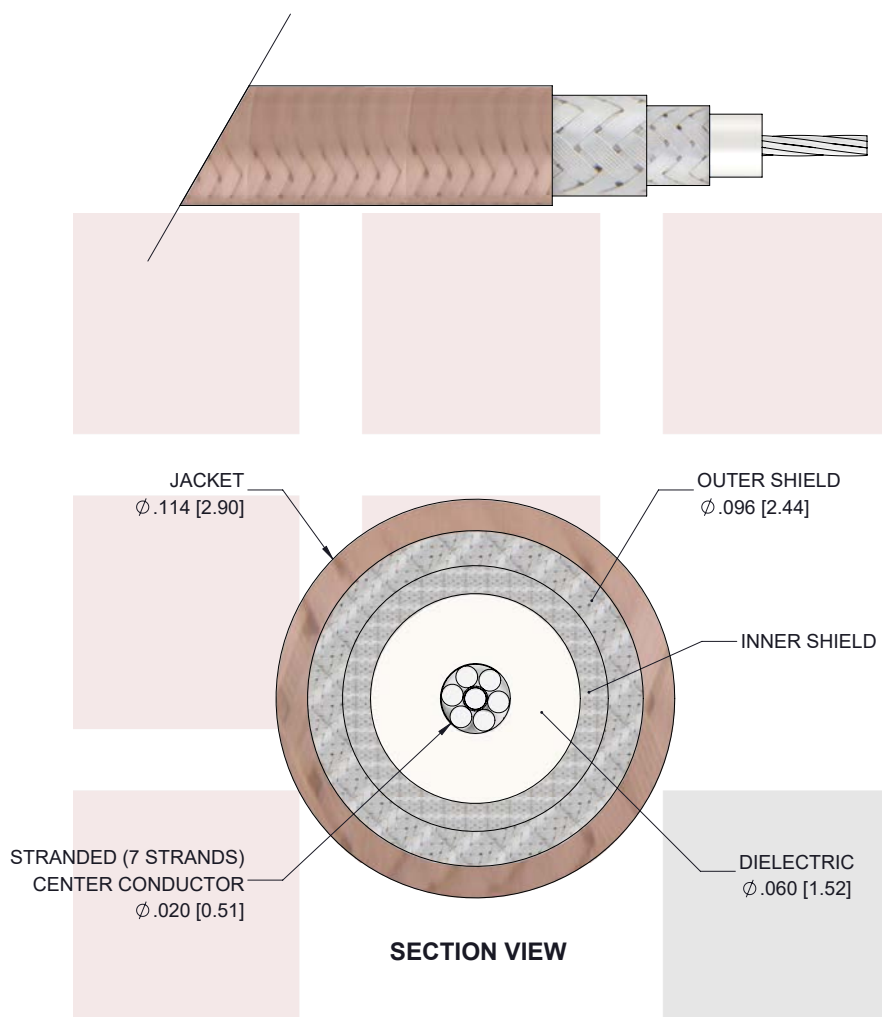
Notes:

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>

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.



STANDARD TOLERANCES

.X	±0.2
.XX	±0.01
.XXX	±0.005

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

Fairview Microwave an INFINITE brand		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 RG316-DS Flexible Coax Cable Tan FEP Jacket		DWG NO RG316-DS		CAGE CODE 3FKR5		
CAD FILE	07/17/19	SHEET	1 OF 1	SCALE	N/A	SIZE A 7361