

MCX Jack Bulkhead Connector Crimp/Solder Attachment For RG188-DS, RG316-DS, .177 inch D Hole

MCX jack bulkhead connector with crimp/solder attachment for RG188-DS and RG316-DS (.177 inch D hole), part number FMCN1843, from Fairview Microwave is in-stock and ships same day. Fairview's FMCN1843 bulkhead MCX 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 MCX jack bulkhead connector FMCN1843 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	0.91 in [23.11 mm]
Width/Dia.	0.197 in [5.00 mm]
Height	0.5 in [12.7 mm]
Weight	0.006 lbs [2.72 g]

Material Specifications

Description	Material	Plating
Body	Brass	Gold

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

Plotted and Other Data

Notes:

MCX Jack Bulkhead Connector Crimp/Solder Attachment For RG188-DS, RG316-DS, .177 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: [MCX Jack Bulkhead Connector Crimp/Solder Attachment For RG188-DS, RG316-DS, .177 inch D Hole FMCN1843](#)

URL: <https://www.fairviewmicrowave.com/mcx-jack-rg188-ds-rg316-ds-connector-fmcn1843-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.



Configuration:

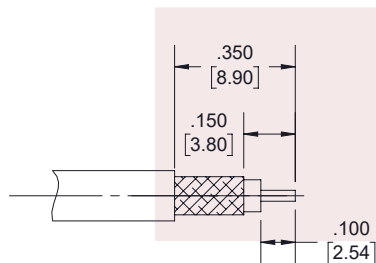
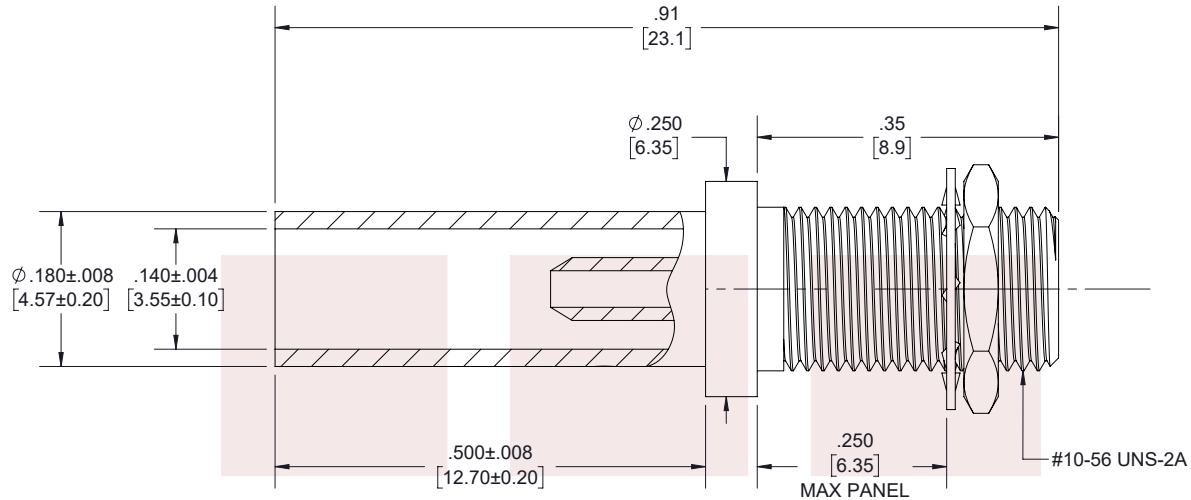
- MCX Jack Connector
- 50 Ohms
- Straight Body Geometry
- RG188-DS, RG316-DS Interface Type
- Crimp/Solder Attachment
- Bulkhead

Applications:

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

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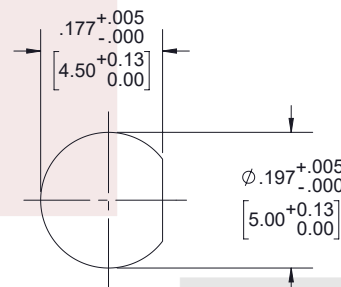
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	02/11/2022	A.GANWANI



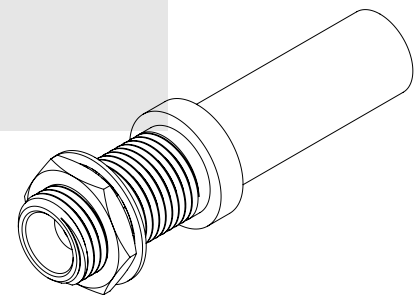
STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER.
FERRULE: .151" [3.84] HEX CRIMP TOOL.



MOUNTING HOLE



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TITLE

MCX Jack Bulkhead Connector Crimp/Solder
Attachment For RG188-DS, RG316-DS, .177 inch D
Hole

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

TOLERANCES:

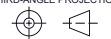
.X = ±.2 [5.08] FRACTIONS
.XX = ±.02 [.51] ± 1/32
.XXX = ±.005 [.13] ANGLES ± 1°

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



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DESIGN IN THIS DOCUMENT
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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	K.GLEBOVA	FMCN1843	A

T-Rev.D

QMA Female Bulkhead Mount Connector Crimp/ Solder Attachment for RG316-DS, RG188-DS, .268 inch D Hole

QMA female bulkhead connector with crimp/solder attachment for RG316-DS and RG188-DS (.268 inch D hole), part number FMCN1896, from Fairview Microwave is in-stock and ships same day. This QMA female connector operates up to a maximum frequency of 18 GHz. Fairview's FMCN1896 bulkhead QMA 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 QMA female bulkhead connector FMCN1896 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		18	GHz
Operating Voltage (AC)			350	Vrms
Test Voltage (AC)			750	Vrms
Inner Cond. DC Resistance			3	mOhms
Outer Cond. DC Resistance			2.5	mOhms
Insulation Resistance	5,000			MOhms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Freq. Range	DC to 3	3 to 6				GHz
VSWR, Max	1.07:1	1.11:1				

Electrical Specification Notes:

RF leakage: 95 dB (up to 2 GHz), 80 dB (up to 4 GHz), 70 dB (up to 6 GHz) min.

Insertion loss = $0.05 \times \sqrt{f(\text{GHz})}$ dB max up to 6 GHz.

Mechanical Specifications

Size

Length	0.95 in [24.13 mm]
Width/Dia.	0.433 in [11.00 mm]
Height	0.5 in [12.7 mm]
Weight	0.013 lbs [5.9 g]
Mating Cycles	100 Cycles

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold



Configuration:

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

Features:

- Operating Frequency of 18 GHz Max.
- Gold Plated Beryllium Copper Contact

Applications:

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

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Insulation	PTFE	
Body	Brass	Tri-Metal

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
Storage Range	-40 to +85 deg C

Humidity	IEC 60169-1 16.3 (96 hours)
Vibration	IEC 60068-2-64 random
Thermal Shock	IEC 60169-1 16.4 (-40/+85°C)
Salt Spray	IEC 60109-1 16.7 (48 hrs)

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

Plotted and Other Data

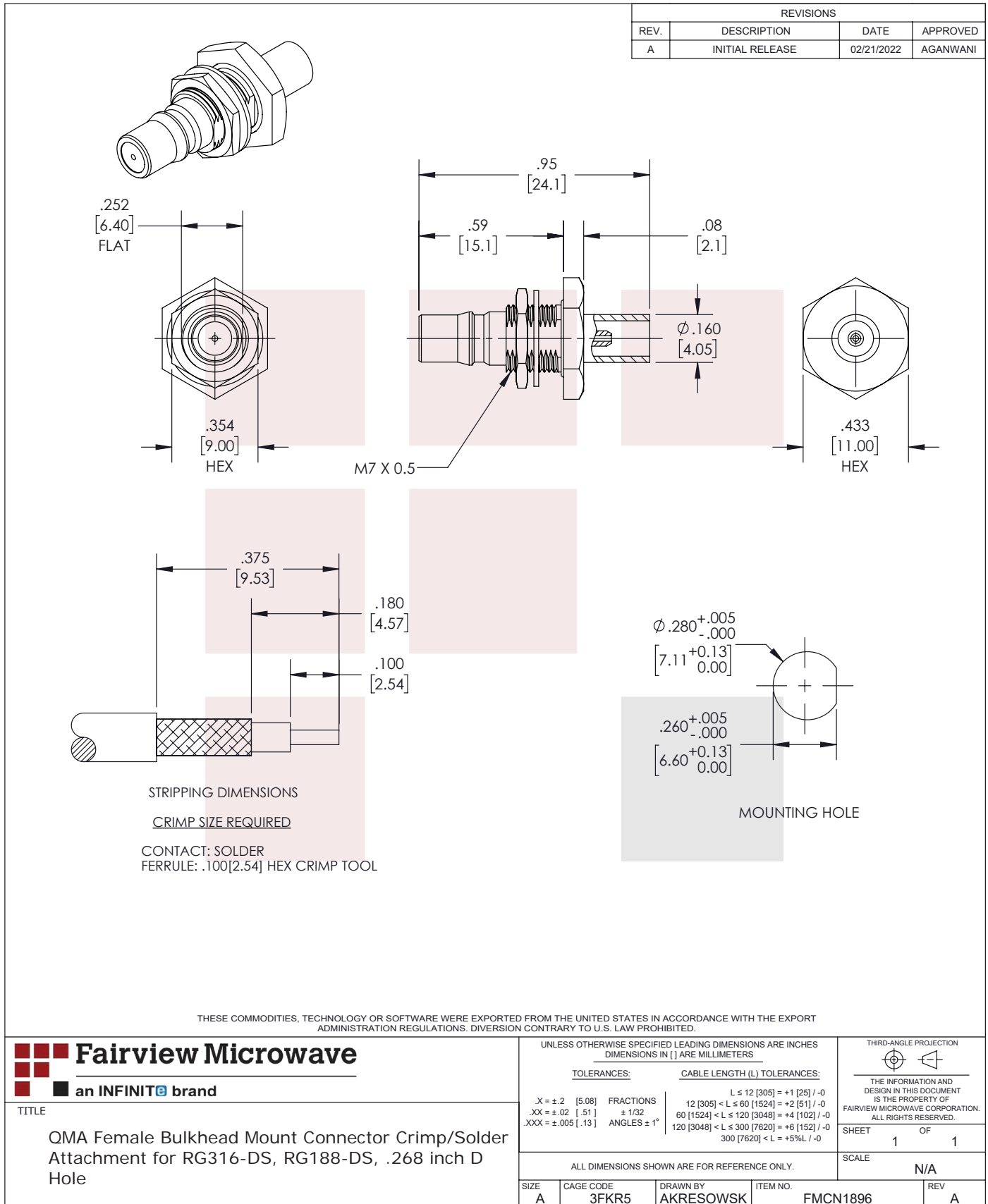
Notes:

QMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG316-DS, RG188-DS, .268 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: [QMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG316-DS, RG188-DS, .268 inch D Hole FMCN1896](#)

URL: <https://www.fairviewmicrowave.com/qma-female-rg316-ds-rg188-ds-connector-fmcn1896-p.aspx>

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T-Rev D

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]

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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**

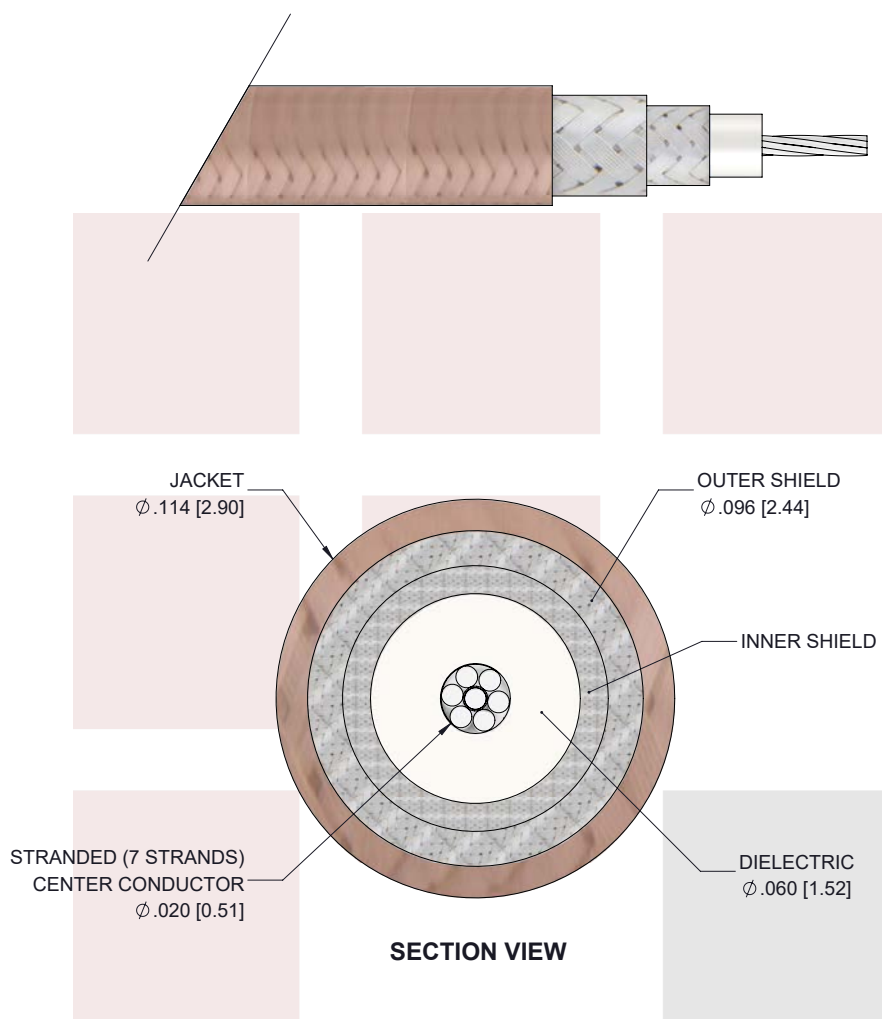
Notes:

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

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