

Right Angle 10-32 Male (Plug) Connector For .100 inch, RG316, RG174, RG188, LMR-100, LMR-100A, LMR-100-FR Cable, Crimp/Solder

RA 10-32 male connector with crimp/solder attachment for .100 inch, RG316, RG174, RG188, LMR-100, LMR-100A and LMR-100-FR, part number SC5561, from Fairview Microwave is in-stock and ships same day. This 10-32 male connector operates up to a maximum frequency of 2 GHz and offers good VSWR of 1.3:1. Its right angle body geometry facilitates connections in tight spaces.

Fairview's RA 10-32 male connector SC5561 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		2	GHz
VSWR			1.3:1	

Mechanical Specifications

Size	
Length	0.53 in [13.46 mm]
Width/Dia.	0.25 in [6.35 mm]
Height	0.64 in [16.26 mm]
Weight	0.012 lbs [5.44 g]

Material Specifications

Description	Material	Plating
Contact	Brass	Gold MIL-G-45204
Insulation	PTFE	
Body	Brass	Nickel QQ-N-290

Environmental Specifications

Temperature	
Operating Range	-55 to +155 deg C

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

Plotted and Other Data

Notes:



Configuration:

- 10-32 Male Connector
- MIL-C-39012
- 50 Ohms
- Right Angle Body Geometry
- .100 inch, RG316, RG174, RG188, LMR-100, LMR-100A, LMR-100-FR Interface Type
- Crimp/Solder Attachment

Features:

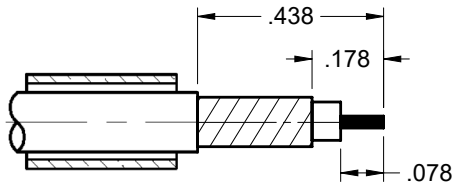
- Operating Frequency of 2 GHz Max.
- Good VSWR of 1.3:1
- Gold Plated Brass Contact
- Contact plating according to MIL-G-45204

Applications:

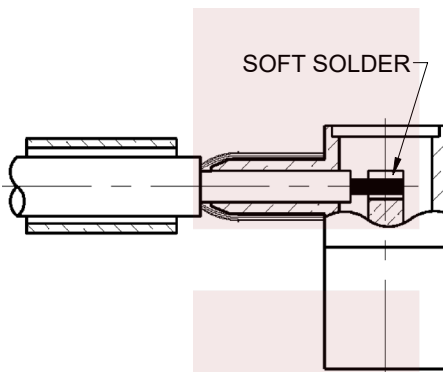
- General Purpose Test
- Custom Cable Assemblies

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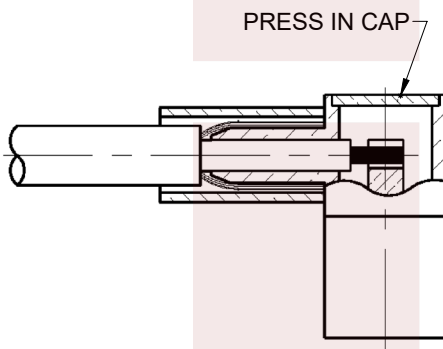
Assembly Instruction



- 1.) STRIP CABLE TO DIMENSIONS SHOWN. DO NOT NICK THE BRAID OR CENTER CONDUCTOR. SLIDE CRIMP TUBE AND ANY SHRINK-FIT TUBING ONTO CABLE AT THIS TIME.



- 2.) INSTALL CABLE INTO BODY ASSEMBLY SO THE TUBE PORTION OF THE BODY SLIDES UNDER THE CABLE BRAID. PUSH CABLE FORWARD UNTIL CENTER CONDUCTOR IS IN SLOT OF CONTACT AND CABLE BRAID MEETS CONNECTOR BODY. SOFT SOLDER CENTER CONDUCTOR IN PLACE.



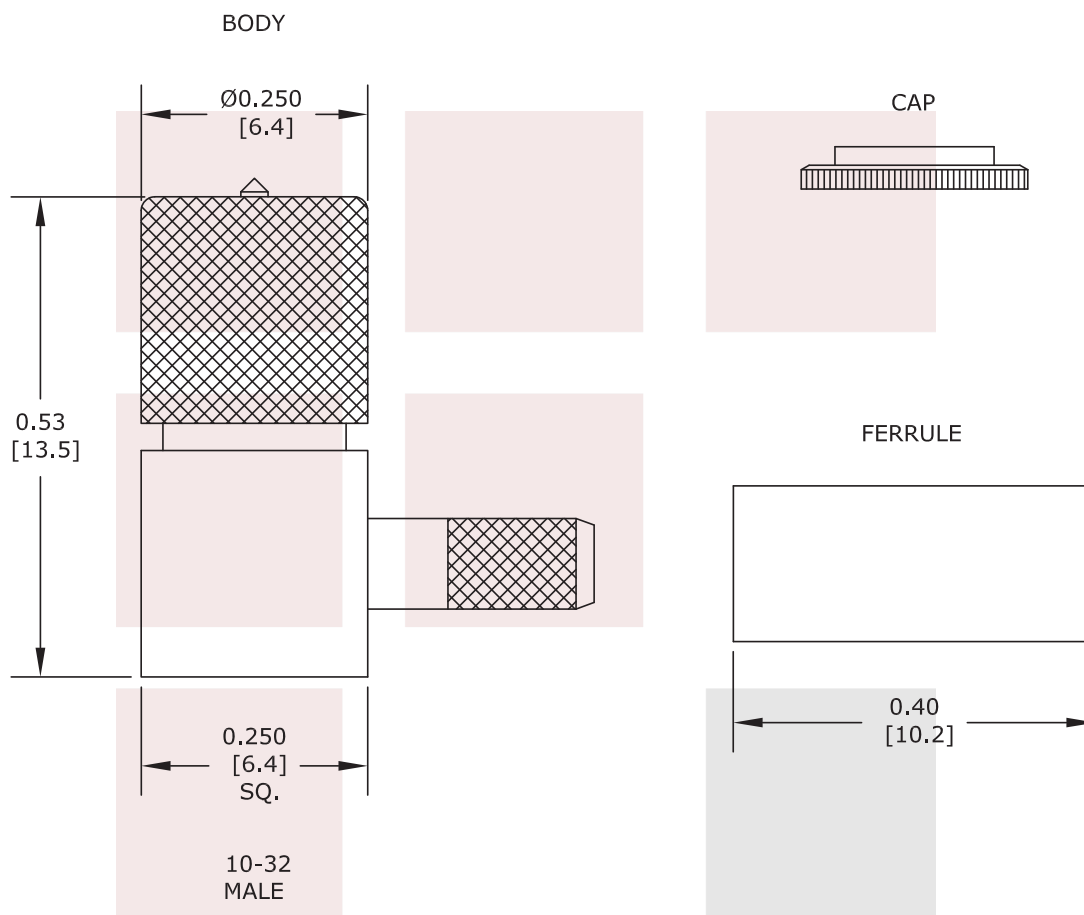
- 3.) SLIDE CRIMP TUBE OVER BRAID & UP AGAINST CONNECTOR BODY. CRIMP USING APPROPRIATE HEX CRIMPING TOOL AT .128 CRIMP SIZE. PLACE CAP INTO POSITION AND PRESS DOWN FLUSH WITH BODY.

Right Angle 10-32 Male (Plug) Connector For .100 inch, RG316, RG174, RG188, LMR-100, LMR-100A, LMR-100-FR Cable, Crimp/Solder 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: [Right Angle 10-32 Male \(Plug\) Connector For .100 inch, RG316, RG174, RG188, LMR-100, LMR-100A, LMR-100-FR Cable, Crimp/Solder SC5561](https://www.fairviewmicrowave.com/10-32-male-standard-rg174-rg316-connector-sc5561-p.aspx)

URL: <https://www.fairviewmicrowave.com/10-32-male-standard-rg174-rg316-connector-sc5561-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 ±0.1
.XXX ±0.05

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC.

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

Right Angle 10-32 Male (Plug) Connector For .100 inch, RG316, RG174, RG188, LMR-100, LMR-100A, LMR-100-FR Cable, Crimp/Solder

DWG NO

SC5561

CAGE CODE

3FKR5

CAD FILE

121316

SHEET

SCALE N/A

SIZE A

41742

RA MMBX Plug Snap-On Connector Crimp/Solder Attachment For RG316, RG174 Cable With Male Center Contact

RA MMBX plug snap-on connector crimp/solder attachment RG316 and RG174 cable FMCN1020 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 1.17:1. Its RA body geometry facilitates connections in tight spaces.

Fairview's RA MMBX plug connector FMCN1020 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			1.17:1	
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

Size	
Length	0.51 in [12.95 mm]
Width/Dia.	0.24 in [6.10 mm]
Weight	0.00726 lbs [3.29 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
- RG316, RG174 Interface Type
- Crimp/Solder Attachment

Features:

- Operating Frequency of 3 GHz Max.
- Excellent VSWR of 1.17:1
- 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

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Environmental Specifications

Temperature

Operating Range -55 to +155 deg C

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

Plotted and Other Data

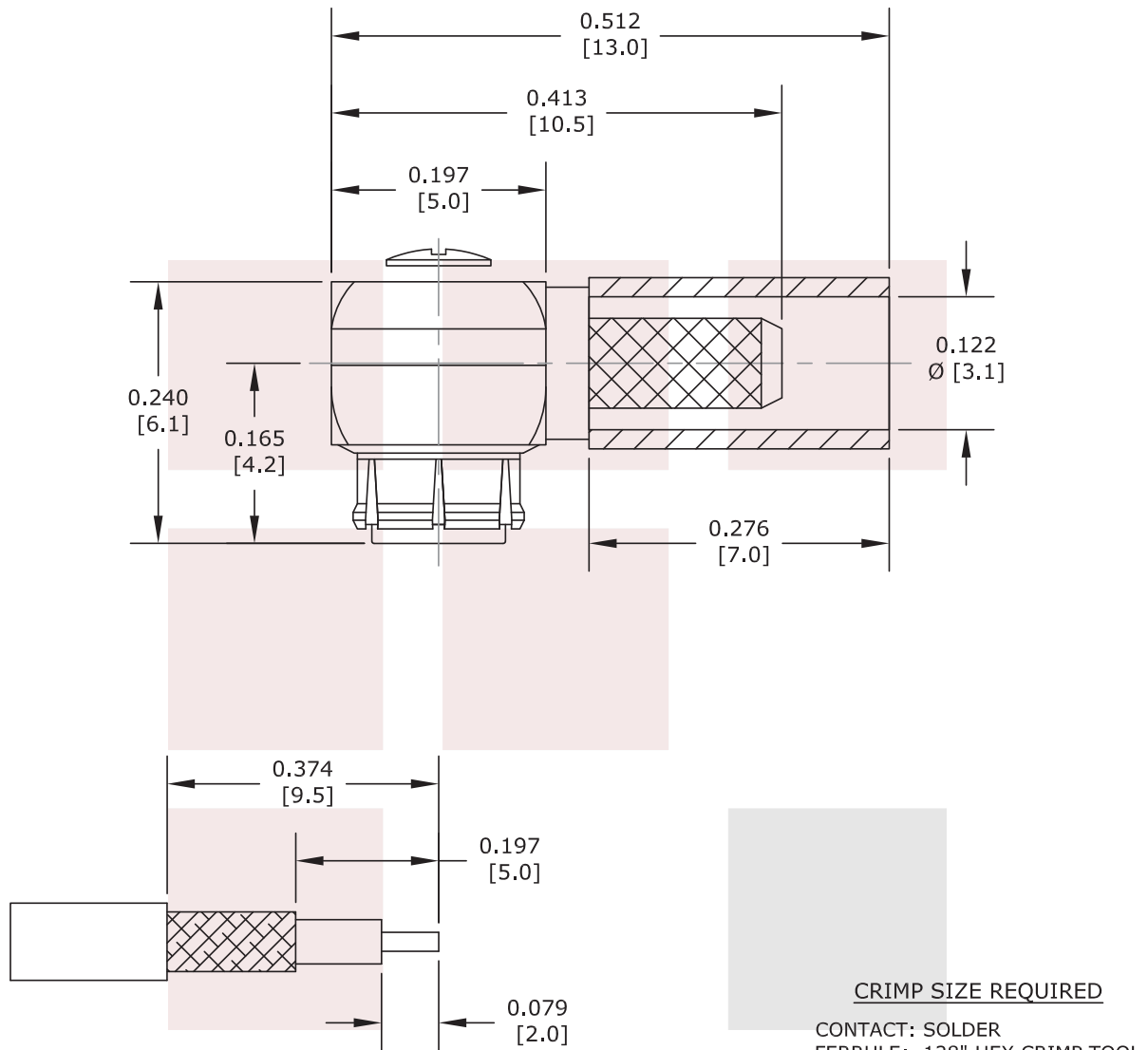
Notes:

RA MMBX Plug Snap-On Connector Crimp/Solder Attachment For RG316, RG174 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 RG316, RG174 Cable With Male Center Contact FMCN1020](#)

URL: <https://www.fairviewmicrowave.com/mmbx-plug-snap-on-rg316-rg174-connector-fmcn1020-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

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TITLE RA MMBX Plug Snap-On Connector Crimp/Solder Attachment For RG316, RG174 Cable With Male Center Contact	DWG NO FMCN1020		CAGE CODE 3FKR5		
	CAD FILE 090116	SHEET	SCALE N/A	SIZE A	2233

Times Microwave LMR-100A-UF Low Loss Flexible Coax Cable Black TPE Jacket Ultra Flex

Times Microwave Systems Coax Cable Specification

LMR-100-UF Ultra Flex version of the 100 series Low Loss Coax from Times Microwave is part of the large product offering by Fairview Microwave of radio frequency coaxial cable types specifically stocked to be ready for same-day shipment. Fairview Microwave LMR-100-UF coax cable is manufactured in an ultra flexible design and has a 50 Ohm impedance. This low loss and ultra flexible 50 Ohm coax cable LMR-100-UF is constructed with a 0.110 inch diameter and Black TPE jacket.

LMR-100-UF flexible 50 Ohm coax cable with TPE jacket is rated for a 5.8 GHz maximum operating frequency. This 50 Ohm 0.110 inch diameter and low loss ultra flexible coax cable is built with an aluminum double shield count and RF shielding of 90 dB. Times Microwave LMR-100-UF TPE coax is constructed with PE dielectric and a maximum operating temperature of 85 degrees C. Fairview Microwave's offering of LMR-100-UF coax cable provides specs for this wire on its RF coax cable LMR-100-UF datasheet.

LMR-100-UF cable is part of more than one million RF, microwave parts in stock at Fairview Microwave. This Times Microwave low loss ultra flexible LMR-100-UF coax cable is ready to buy and can be shipped worldwide. Fairview Microwave also maintains a wide selection of other radio frequency coaxial cable types that ship same-day from our warehouse as with the rest of our other RF/microwave components.

* LMR™ is a trademark of Times Microwave Systems.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		5.8	GHz
Impedance		50		Ohms
Velocity of Propagation		66		%
Time Delay		1.54 [5.05]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
DWV (DC)			500	Vdc
Jacket Spark			2,000	Vrms
Inner Conductor DC Resist.			81	Ohms/1000ft
Outer Conductor DC Resist.			9.5	Ohms/1000ft
Nominal Capacitance		30.8		pF/ft
		[101.05]		[pF/m]
Nominal Inductance		0.077		uH/ft
		[0.25]		[uH/m]
Input Power (Peak)			600	Watts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	50	150	220	450	900	MHz
Attenuation, Typ	5.1	8.9	10.9	15.8	22.8	dB/100ft
	16.73	29.2	35.76	51.84	74.8	dB/100m



Configuration:

- Low Loss, Outdoor Flexible Cable
- 2 Shield(s)

Features:

- Max Operating Frequency of 5.8 GHz
- Phase Velocity 66% VoP
- Stranded Center Conductor Resulting in an Ultra Flexible Coax
- Max Operating Temperature +85°C
- TPE Jacket
- Min Install Bend Radius of 0.25 inches

Applications:

- Laboratory Applications
- General Purpose RF Interconnect
- RF Test Systems Requiring Highly Flexible Coax
- Antenna Installs

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Power In (CW), Max	180	100	83	57	39	Watts
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Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	5.8	GHz
Attenuation, Typ	30.1	33.2	35.2	39.8	64.1	dB/100ft
	98.75	108.92	115.49	130.58	210.3	dB/100m
Power In (CW), Max	29	27	25	22	13	Watts

Mechanical Specifications

Diameter	0.11 in 2.79 mm
Weight	0.0092 lbs/ft [0.01 Kg/m]
Min. Bend Radius (Installation)	0.25 in [6.35 mm]
Min. Bend Radius (Repeated)	1 in [25.4 mm]
Bending Moment	0.1 lbs-ft [0.14 N-m]
Tensile Strength	15 lbs [6.8 kg]
Flat Plate Crush	10 lbs/in [0.18 Kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strands	0.018 in [0.46 mm]
Conductor Type	Solid	
Dielectric	PE	0.06 in [1.52 mm]
First Shield	Aluminum Tape	[]
Second Shield	Tinned Copper	[]
Jacket	TPE, Black	0.11 in [2.79 mm]

Environmental Specifications

Temperature	
Operating Range	-40 to +85 deg C
Installation Range	-40 to +85 deg C
Storage Range	-70 to +85 deg C

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

Plotted and Other Data

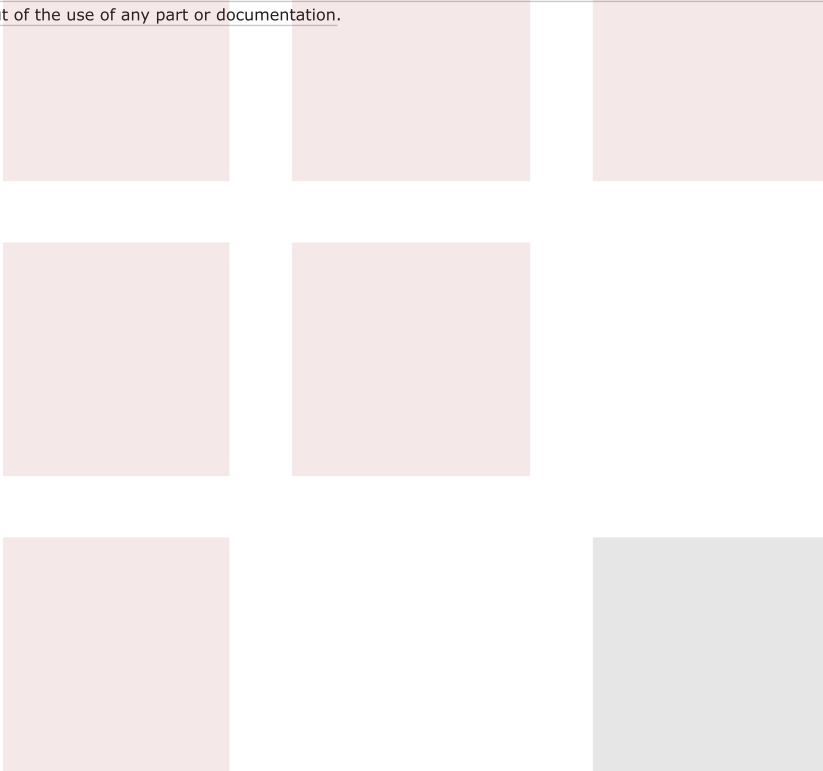
Notes:

Times Microwave LMR-100A-UF Low Loss Flexible Coax Cable Black TPE Jacket Ultra Flex 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.

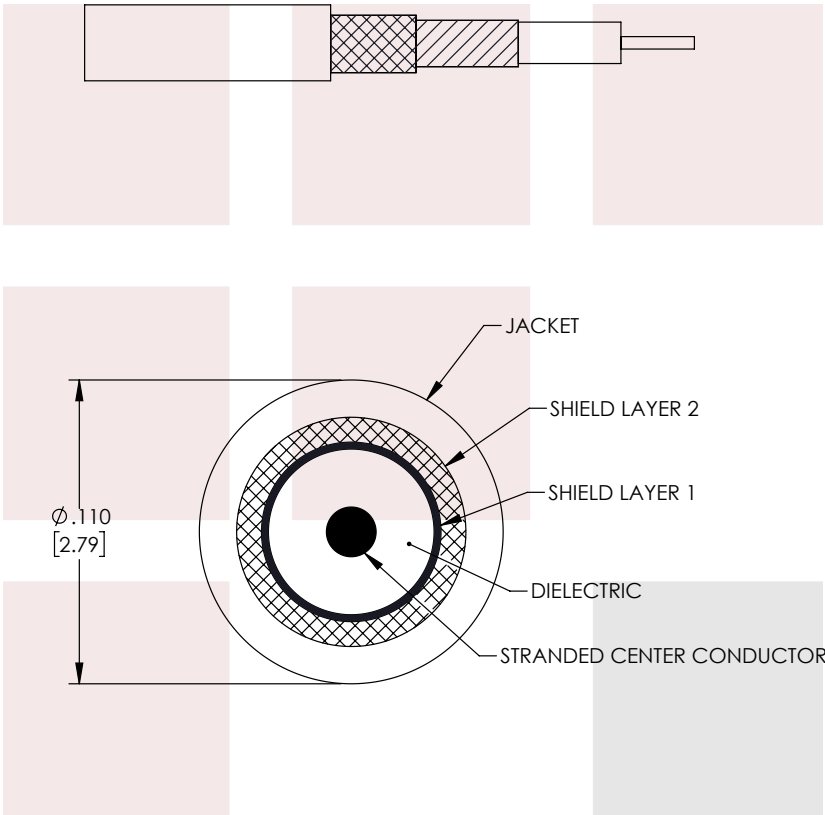
Click the following link to obtain additional part information: [Times Microwave LMR-100A-UF Low Loss Flexible Coax Cable Black TPE Jacket Ultra Flex LMR-100A-UF](#)

URL: <https://www.fairviewmicrowave.com/lmr-100a-uf-low-loss-flexible-coax-cable-tpe-jacket-lmr-100a-uf-p.aspx>


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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	06-04-2021	SELLIS



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<div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div>Fairview Microwave</div><div>an INFINITI brand</div></div></div> <div>TITLE</div> <div>Times Microwave LMR-100A-UF Low Loss Flexible Coax Cable Black TPE Jacket Ultra Flex</div>	UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS				THIRD-ANGLE PROJECTION  THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.	
	TOLERANCES:		CABLE LENGTH (L) TOLERANCES:			
	.X = ±.2 [5.08] FRACTIONS ± 1/32		L ≤ 12 [305] = +1 [25] / -0			
	.XX = ±.02 [.51] ± 1/32		12 [305] < L ≤ 60 [1524] = +2 [51] / -0			
	.XXX = ±.005 [.13] 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.						SCALE N/A
SIZE A	CAGE CODE 3FKR5	DRAWN BY MVEERAPPAN		ITEM NO. LMR-100A-UF	REV A	

T-Rev.D