Fairview Microwave
an INFINITE brand

TIMES MICROWAVE SYSTEMS

EZ-400-NMH-RA-X DATA SHEET

RA N Male Connector Crimp / Non-Solder Contact Attachment For LMR-400 Cable



Times Microwave Systems Connector Specification

RA type N male connector with crimp/non-solder contact attachment for LMR-400, part number EZ-400-NMH-RA-X, from Fairview Microwave is in-stock and ships same day. This type N male connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.35:1. Its right angle body geometry facilitates connections in tight spaces.

Fairview's RA type N male connector EZ-400-NMH-RA-X 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.

Configuration:

- N Male Connector
- 50 Ohms
- Right Angle Body Geometry
- LMR-400 Interface Type
- Crimp/Non-Solder Contact Attachment

Features:

- Operating Frequency of 6 GHz Max.
- Good VSWR of 1.35:1
- Gold Plated Beryllium Copper Contact
- 1.27 µm minimum contact plating

Applications:

- General Purpose Test
- Custom Cable Assemblies

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		6	GHz
VSWR			1.35:1	
DWV (AC)			2,500	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Freq. Range	DC to 3					GHz
Insertion Loss, Max	0.1					dB

Mechanical Specifications

Size

Length	1.87 in [47.5 mm]
Width/Dia.	0.81 in [20.57 mm]
Height	1.42 in [36.07 mm]
Weight	0.194 lbs [88 g]
Mating Torque	44 in-lbs [4.97 Nm]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 1.27 µm minimum
Insulation	PTFE	
Body	Brass	Tri-Metal 2 µm minimum
Coupling Nut	Brass	Tri-Metal 2 µm minimum

Fairview Microwave
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sales@fairviewmicrowave.com

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Environmental Specifications

Temperature

Operating Range	-55 to +155 deg C
Shock	MIL-STD 202, Method 213, Condition I
Vibration	MIL-STD 202, Method 204, Condition B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

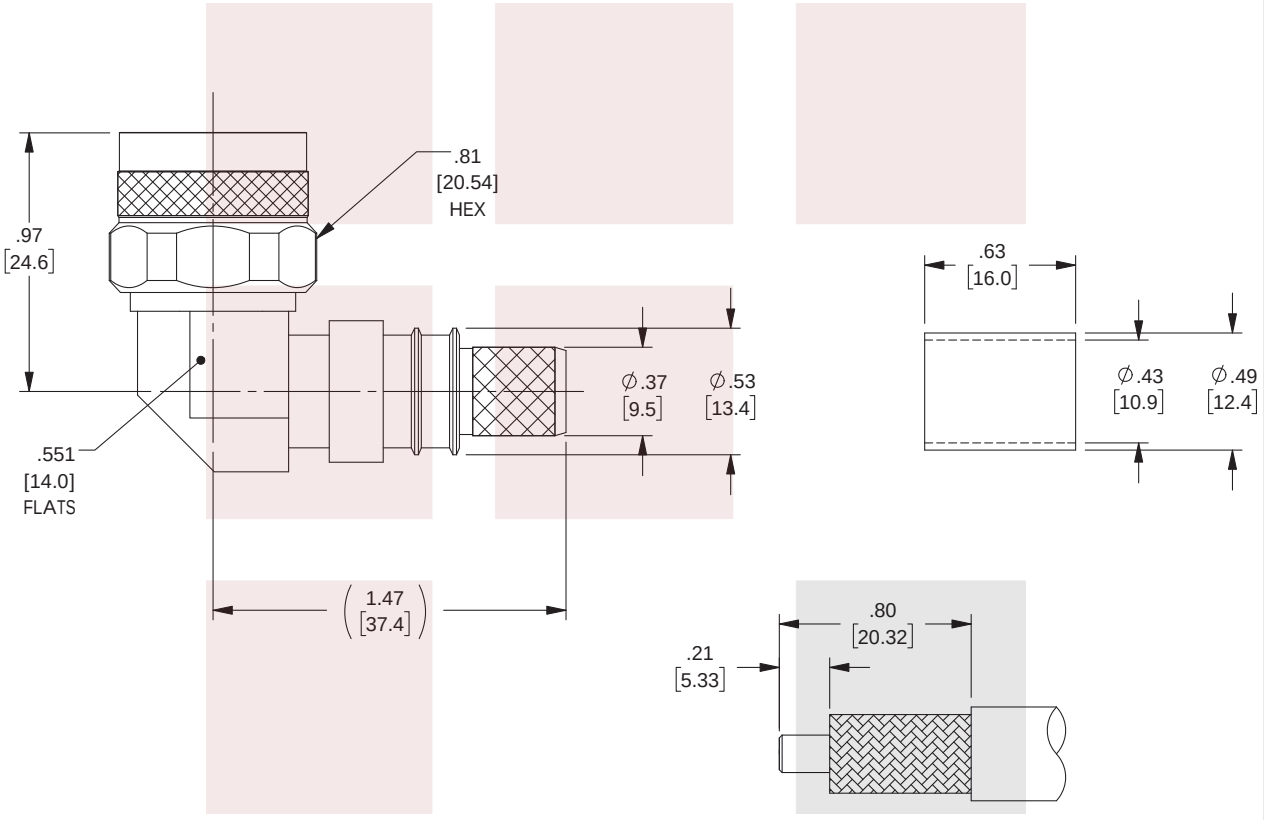
RA N Male Connector Crimp/Non-Solder Contact Attachment For LMR-400 Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: RA N Male Connector Crimp/Non-Solder Contact Attachment For LMR-400 Cable EZ-400-NMH-RA-X

URL: https://www.fairviewmicrowave.com/n-male-lmr-400-connector-ez-400-nmh-ra-x-p.aspx

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	01/19/2021	SELLIS



RECOMMENDED CABLE
STRIPPING DIMENSIONS

FERRULE HEX CRIMP SIZE: 0.429 [10.89]

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TITLE

RA N Male Connector Crimp/Non-Solder Contact Attachment For LMR-400 Cable

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

TOLERANCES:

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

SCALE: N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	BPUCHASKI	EZ-400-NMH-RA-X	A

T-Rev.D

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EZ-400-NMH-X DATA SHEET

N Male (Plug) Connector for LMR-400 Cable, Crimp/ Non-Solder Contact, Tri-Metal Plated Brass Body, Length 1.496 In

Type N male connector with crimp/non-solder contact attachment for Times' LMR-400, part number EZ-400-NMH-X, from Times Microwave offered by Fairview Microwave is in-stock and ships same day. This type N male connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.25:1.

Times Microwave's type N male connector EZ-400-NMH-X 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.



Configuration:

- N Male Connector
- 50 Ohms
- Straight Body Geometry
- LMR-400 Interface Type
- Crimp/Non-Solder Contact Attachment
- 20 mm Hex

Features:

- Operating Frequency of 6 GHz Max.
- Excellent VSWR of 1.25:1
- Gold Plated Beryllium Bronze Contact
- 50 µin minimum contact plating

Applications:

- General Purpose Test
- Custom Cable Assemblies

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		6	GHz
VSWR			1.25:1	
Insertion Loss			0.05	dB
Operating Voltage (AC)			1,500	Vrms
Inner Cond. DC Resistance			0.8	mOhms
Outer Cond. DC Resistance			0.4	mOhms
Insulation Resistance	5,000			MOhms

Mechanical Specifications

Size

Length	1.496 in [38 mm]
Width/Dia.	0.5 in [12.70 mm]
Weight	0.095 lbs [43.09 g]
Mating Torque	221 in-lbs [24.97 Nm]

Material Specifications

Description	Material	Plating
Contact	Beryllium Bronze	Gold 50 µin minimum
Insulation	PTFE	
Body	Brass	Tri-Metal 100µ in. minimum
Coupling Nut	Brass	Tri-Metal 100µ in. minimum

Environmental Specifications

Temperature

Operating Range	-55 to +155 deg C

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Shock	US MIL-STD 202, Method 213, Cond. I
Vibration	US MIL-STD 202, Method 204, Cond. B
Thermal Shock	MIL-STD 202, Meth. 107, Cond.B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

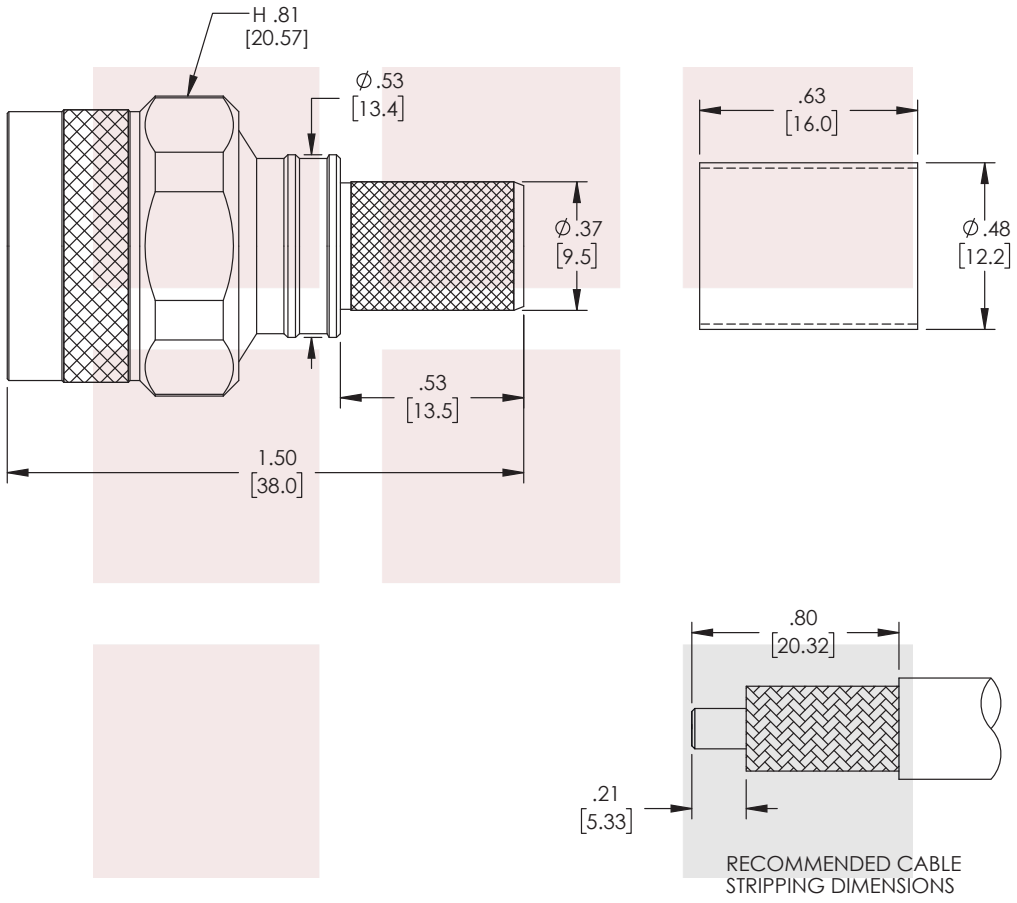
N Male (Plug) Connector for LMR-400 Cable, Crimp/Non-Solder Contact, Tri-Metal Plated Brass Body, Length 1.496 In from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: N Male (Plug) Connector for LMR-400 Cable, Crimp/Non-Solder Contact, Tri-Metal Plated Brass Body, Length 1.496 In EZ-400-NMH-X

URL: https://www.fairviewmicrowave.com/n-male-lmr-400-connector-ez-400-nmh-x-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	7/19/21	SRAUTUS



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TITLE

N Male (Plug) Connector for LMR-400 Cable, Crimp/ Non-Solder Contact, Tri-Metal Plated Brass Body, Length 1.496 In

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
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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	DMAY	EZ-400-NMH-X	A

T-Rev.D

Times Microwave LMR-400-UF Low Loss Flexible Coax Cable Black TPE Jacket



LMR-400-UF

TIMES MICROWAVE SYSTEMS
An Amphenol Company

Times Microwave Systems Connector Specification

Configuration

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

Features

- Max Operating Frequency of 8 GHz
- Low Loss Cable
- Phase Velocity 85% VoP

Applications

- Laboratory Applications
- General Purpose RF Interconnect

Description

LMR-400-UF coax cable from Fairview is only one of a large number of radio frequency twinaxial and coaxial cable types specifically stocked to be ready for quick shipment. Fairview Microwave LMR-400-UF coax cable is manufactured in a flexible design and has a 50 Ohm impedance.This low loss flexible 50 Ohm coax cable LMR-400-UF is constructed with a 0.405 inch diameter and TPE jacket.

LMR-400-UF flexible 50 Ohm coax cable with TPE jacket is rated for a 8 GHz maximum operating frequency. This 50 Ohm 0.405 inch diameter and low loss flexible coax cable is built with a shield count of 2 and RF shielding of 90 dB.

Fairview Microwave LMR-400-UF coax is constructed with PE (F) dielectric and a maximum operating temperature of 85 degrees C. Times Microwave LMR-400-UF coax cable specs for this wire properties can be found on its RF coax cable LMR-400-UF datasheet PDF specifications above.

LMR-400-UF cable is part of more than one million RF, microwave and millimeter wave parts in stock at Fairview. This Times Microwave low loss LMR-400-UF coax cable is ready to buy and can be shipped worldwide. Fairview also maintains a wide selection of other radio frequency twinaxial and coaxial cable types that ship same-day from our warehouse as with the rest of our other RF/microwave and millimeter wave components.

* LMR™ is a trademark of Times Microwave Systems.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Cutoff Frequency		16.2		GHz
Impedance		50		Ohms
Velocity of Propagation		85		%
Time Delay		1.2 [3.94]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			2,500	Vdc
Jacket Spark			8,000	Vrms
Inner Conductor DC Resistance			1.07	Ohms/1000ft

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Times Microwave LMR-400-UF Low Loss Flexible Coax Cable Black TPE Jacket



LMR-400-UF

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Outer Conductor DC Resistance			1.65	Ohms/1000ft
Nominal Capacitance		23.9 [78.41]		pF/ft [pF/m]
Nominal Inductance		0.06 [0.2]		uH/ft [uH/m]
Input Power (Peak)			16	kWatts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	50	150	220	450	900	MHz
Attenuation, Typ	1.1	1.8	2.2	3.3	4.7	dB/100ft
	3.61	5.91	7.22	10.83	15.42	dB/100m
Input Power (CW), Max	2,140	1,220	1,000	690	480	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	5.8	GHz
Attenuation, Typ	6.2	6.8	7.2	8.1	13	dB/100ft
	20.34	22.31	23.62	26.57	42.65	dB/100m
Input Power (CW), Max	360	330	310	280	170	Watts

Mechanical Specifications

Diameter	0.405 in [10.29 mm}
Weight	0.087 lbs/ft [0.13 kg/m]
Min. Bend Radius (Installation)	1 in [25.4 mm]
Min. Bend Radius (Repeated)	4 in [101.6 mm]
Bending Moment	0.38 lbs-ft [0.52 N-m]
Tensile Strength	160 lbs [72.57 kg]
Flat Plate Crush	20 lbs/in [0.36 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, Strand	0.108 in [2.74 mm]
Conductor Type	Stranded	
Dielectric	PE (F)	0.285 in [7.24 mm]
First Shield	Aluminum Tape	
Second Shield	Tinned Copper Braid	
Jacket	TPE, Black	0.405 in [10.29 mm]

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Times Microwave LMR-400-UF Low Loss Flexible Coax Cable Black TPE Jacket



LMR-400-UF

Environmental Specifications

Temperature

Operating 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-400-UF Low Loss Flexible Coax Cable Black TPE Jacket 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: Times Microwave LMR-400-UF Low Loss Flexible Coax Cable Black TPE Jacket LMR-400-UF

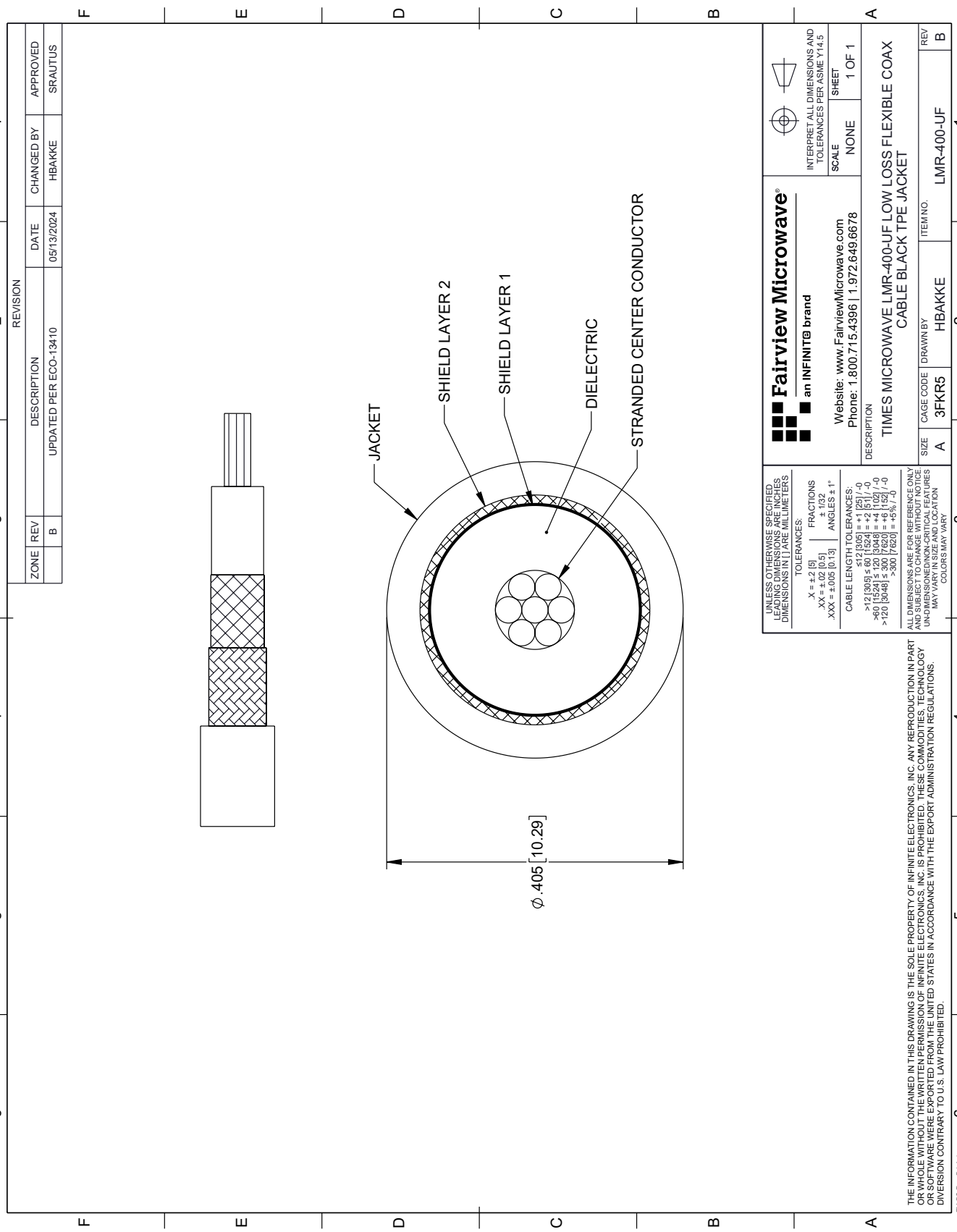
URL: https://www.fairviewmicrowave.com/lmr400uf-low-loss-flexible-coax-cable-tpe-jacket-lmr-400-uf-p.aspx

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LMR-400-UF CAD Drawing

Times Microwave LMR-400-UF Low Loss Flexible Coax Cable Black TPE Jacket



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