Fairview Microwave
an INFINITE brand

TIMES MICROWAVE SYSTEMS

TC-195-SM-SS-X DATA SHEET

SMA Male Connector Crimp/Solder Attachment for LMR-195 Cable



Times Microwave Systems Connector Specification

SMA male connector with crimp/solder attachment for LMR-195, part number TC-195-SM-SS-X, from Fairview Microwave is in-stock and ships same day. This SMA male connector operates up to a maximum frequency of 8 GHz and offers good VSWR of 1.3:1.

Fairview's SMA male connector TC-195-SM-SS-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.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		8	GHz
VSWR			1.3:1	

Mechanical Specifications

Size

Length	1.17 in [29.72 mm]
Width/Dia.	0.375 in [9.53 mm]
Weight	0.02 lbs [9.07 g]

Material Specifications

Description	Material	Plating
Contact	Brass	Gold ASTM B488
Insulation	PTFE	
Body	Passivated Stainless Steel	
Coupling Nut	Passivated Stainless Steel	

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Configuration:

- SMA Male Connector
- 50 Ohms
- Straight Body Geometry
- LMR-195 Interface Type
- Crimp/Solder Attachment
- 5/16 Inch Hex

Features:

- Operating Frequency of 8 GHz Max.
- Good VSWR of 1.3:1
- Gold Plated Brass Contact
- Contact plating according to ASTM B488

Applications:

- General Purpose Test
- Custom Cable Assemblies

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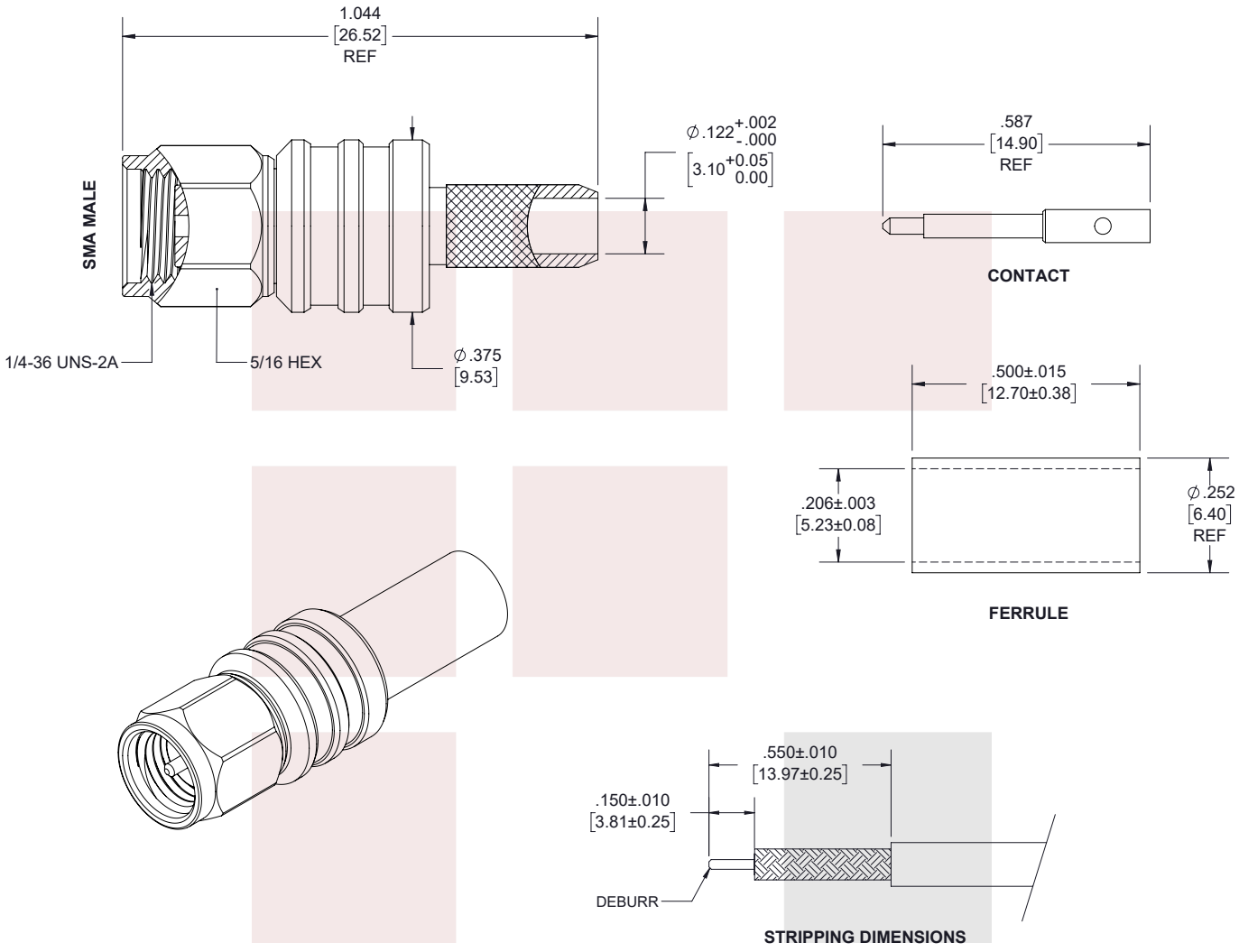
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SMA Male Connector Crimp/Solder Attachment for LMR-195 Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: SMA Male Connector Crimp/Solder Attachment for LMR-195 Cable TC-195-SM-SS-X

URL: https://www.fairviewmicrowave.com/sma-male-lmr-195-connector-tc-195-sm-ss-x-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

NOTES:
1. CABLE ATTACHMENT:
   - OUTER: CRIMP.
   - INNER: SOLDER.
2. CRIMP SIZE REQUIRED:
   - FERRULE: .213 [5.41] HEX. CRIMP TOOL.
   - CONTACT: SOLDER.

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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: SMA Male Connector Crimp/Solder Attachment for LMR-195 Cable

DWG NO	CAGE CODE
TC-195-SM-SS-X	3FKR5

CAD FILE	SHEET	SCALE	SIZE	
10/25/19	1 OF 1	N/A	A	7361

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RF COMPONENTS ON DEMAND. Done!

FMCN1377
DATA SHEET

SMA Female Connector Crimp/Solder Attachment For RG58 Cable



SMA female connector with crimp/solder attachment for RG58, part number FMCN1377, from Fairview Microwave is in-stock and ships same day. This SMA female connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.28:1.

Fairview's SMA female connector FMCN1377 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	Error on F1=NULL		Error on F1=NULL	
VSWR			1.28:1	
Operating Voltage (AC)			500	Vrms

Mechanical Specifications

Size

Length	0.893 in [22.68 mm]
Width/Dia.	0.25 in [6.35 mm]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 50µ in. minimum
Insulation	PTFE	
Body	Brass	Nickel 100µ in. minimum

Environmental Specifications

Temperature

Operating Range	-65 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Configuration:

- SMA Female Connector
- 50 Ohms
- Straight Body Geometry
- RG58 Interface Type
- Crimp/Solder Attachment

Features:

- Operating Frequency of 12.4 GHz Max.
- Good VSWR of 1.28:1
- Gold Plated Beryllium Copper Contact
- 50µ in. minimum contact plating

Applications:

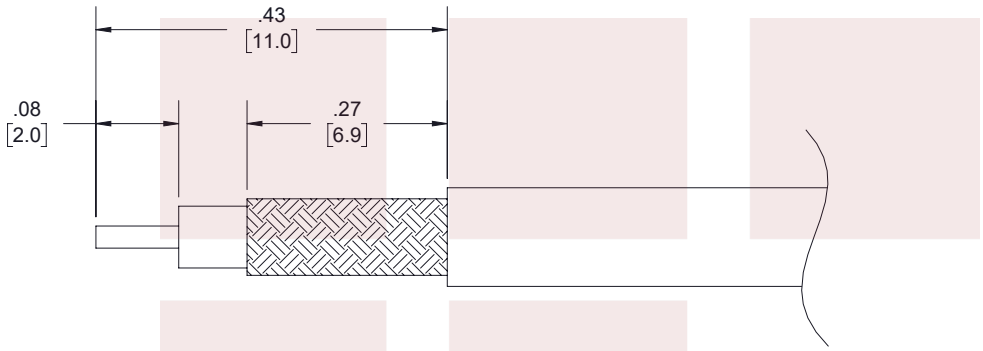
- General Purpose Test
- Custom Cable Assemblies

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Assembly Instruction

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ASSEMBLY PROCEDURES

1. STRIP CABLE TO THE DIMENSIONS SHOWN, DO NOT NICK CENTER CONDUCTOR OR BRAID.
2. PUSH CENTER CONDUCTOR FULLY INTO CONTACT AND SOLDER, REMOVE ANY EXCESS SOLDER.
3. FLARE BRAID AND INSERT CONTACT INTO THE BODY UNTIL IT SEATS.
4. SLIDE FERRULE OVER BRAID AND CRIMP WITH CRIMP TOOL.

CRIMP SIZE REQUIRED

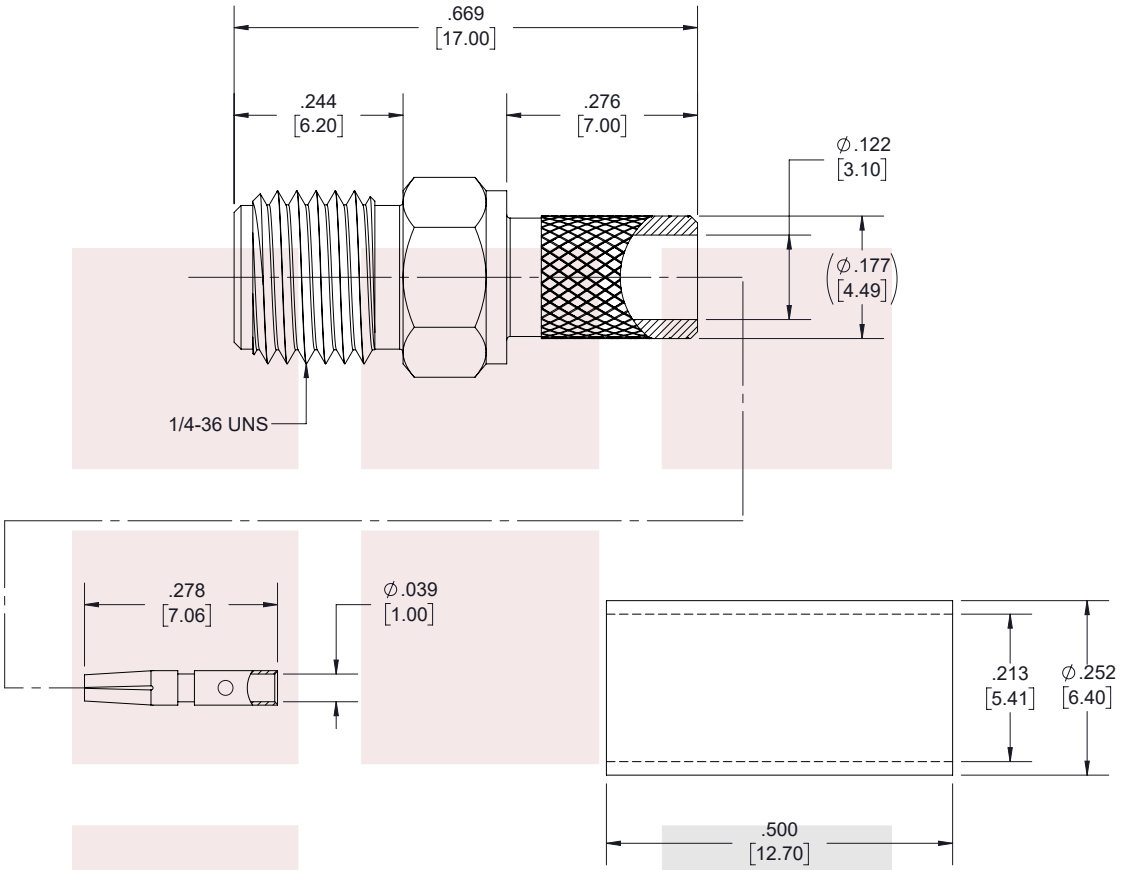
- CONTACT: SOLDER.
- FERRULE: .213" HEX CRIMP TOOL.

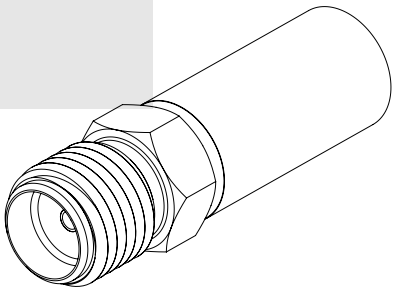
SMA Female Connector Crimp/Solder Attachment For RG58 Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: SMA Female Connector Crimp/Solder Attachment For RG58 Cable FMCN1377

URL: https://www.fairviewmicrowave.com/sma-female-rg58-connector-fmcn1377-p.aspx

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STANDARD TOLERANCES
.X ±0.2
.XX ±0.01
.XXX ±0.005

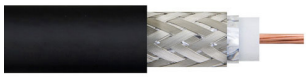
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TITLE SMA Female Connector Crimp/Solder Attachment For RG58 Cable	DWG NO FMCN1377 / CAGE CODE 3FKR5
CAD FILE 110917	SHEET 1 OF 1
SCALE N/A	SIZE A
7361	

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Times Microwave LMR-195-UF Low Loss Flexible Coax Cable Black TPE Jacket Ultra Flex



LMR-195-UF

Configuration

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

Features

- Max Operating Frequency of 8 GHz
- Phase Velocity 74% VoP
- Stranded Center Conductor Resulting in an Ultra Flexible Coax
- Max Operating Temperature +85°C
- TPE Jacket
- Min Install Bend Radius of 0.5 inches

Applications

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

Description

LMR-195-UF Ultra Flex version of the 195 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-195-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-195-UF is constructed with a 0.195 inch diameter and Black TPE jacket.

LMR-195-UF flexible 50 Ohm coax cable with TPE jacket is rated for a 8 GHz maximum operating frequency. This 50 Ohm 0.195 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-195-UF TPE coax is constructed with Foam PE dielectric and a maximum operating temperature of 85 degrees C. Fairview Microwave's offering of LMR-195-UF coax cable provides specs for this wire on its RF coax cable LMR-195-UF datasheet.

LMR-195-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-195-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.

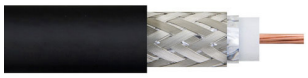
* LMR™ is a trademark of Times Microwave Systems.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Impedance		50		Ohms
Velocity of Propagation		74		%
Time Delay		1.27 [4.17]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			1,000	Vdc
Jacket Spark			3,000	Vrms
Inner Conductor DC Resistance			9.5	Ohms/1000ft
Outer Conductor DC Resistance			4.9	Ohms/1000ft
Nominal Capacitance		25.4 [83.33]		pF/ft [pF/m]
Nominal Inductance		0.064 [0.21]		uH/ft [uH/m]

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Times Microwave LMR-195-UF Low Loss Flexible Coax Cable Black TPE Jacket Ultra Flex



LMR-195-UF

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input Power (Peak)			2.5	kWatts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	50	150	220	450	900	MHz
Attenuation, Typ	3	5.3	6.4	9.3	13.2	dB/100ft
	9.84	17.39	21	30.51	43.31	dB/100m
Input Power (CW), Max	610	350	280	200	140	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	5.8	GHz
Attenuation, Typ	17.3	19	20.1	22.6	35.6	dB/100ft
	56.76	62.34	65.94	74.15	116.8	dB/100m
Input Power (CW), Max	100	90	90	80	50	Watts

Mechanical Specifications

Diameter	0.195 in [4.95 mm}
Weight	0.021 lbs/ft [0.03 kg/m]
Min. Bend Radius (Installation)	0.5 in [12.7 mm]
Min. Bend Radius (Repeated)	2 in [50.8 mm]
Bending Moment	0.1 lbs-ft [0.14 N-m]
Tensile Strength	40 lbs [18.14 kg]
Flat Plate Crush	10 lbs/in [0.18 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 7 Strand	0.038 in [0.97 mm]
Conductor Type	Stranded	
Dielectric	Foam PE	0.11 in [2.79 mm]
First Shield	Aluminum Tape	0.116 in [2.95 mm]
Second Shield	Tinned Copper	0.139 in [3.53 mm]
Jacket	TPE, Black	0.195 in [4.95 mm]

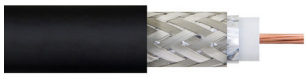
Environmental Specifications

Temperature

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

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Times Microwave LMR-195-UF Low Loss Flexible Coax Cable Black TPE Jacket Ultra Flex



LMR-195-UF

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Times Microwave LMR-195-UF Low Loss Flexible Coax Cable Black TPE Jacket Ultra Flex 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-195-UF Low Loss Flexible Coax Cable Black TPE Jacket Ultra Flex LMR-195-UF

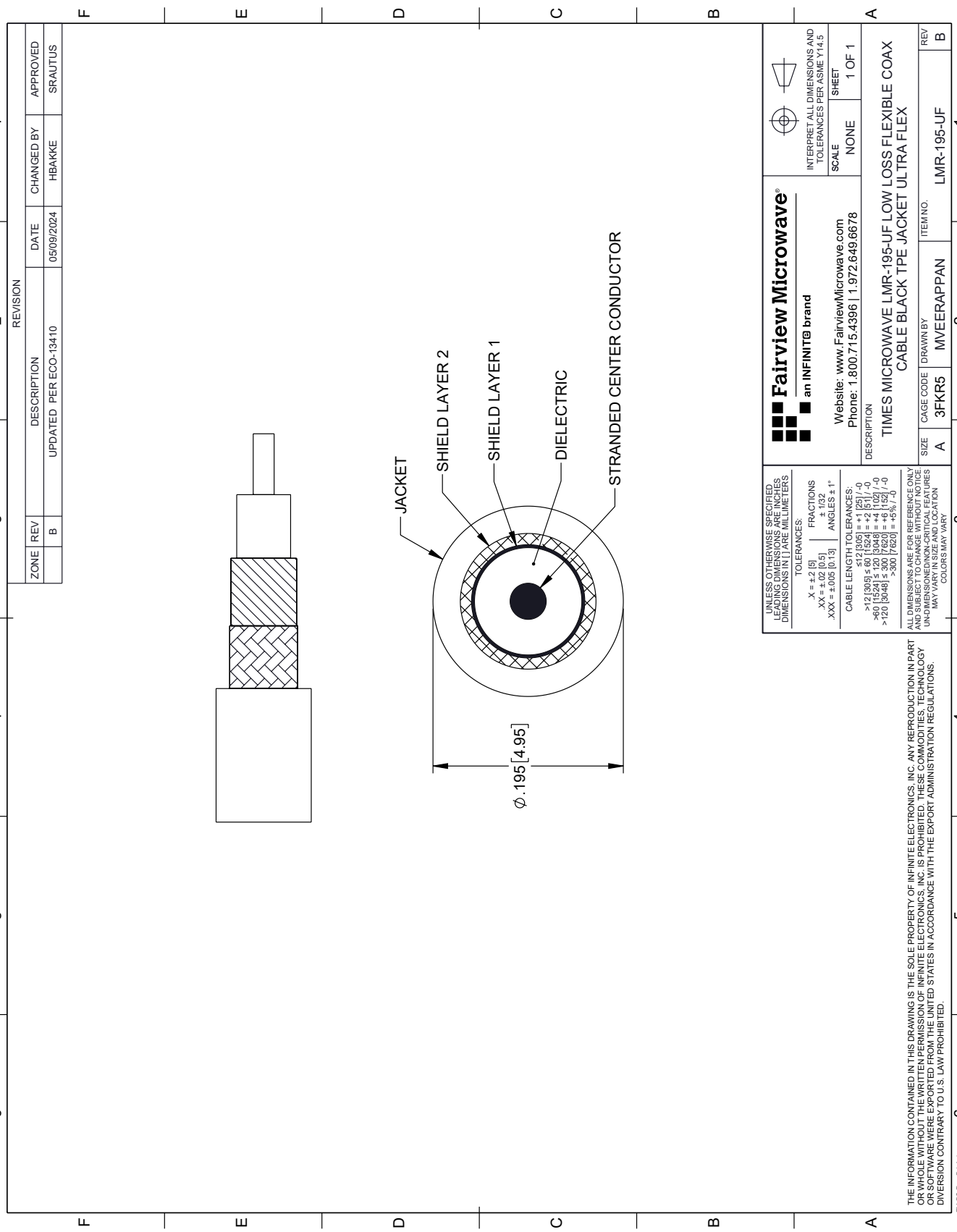
URL: https://www.fairviewmicrowave.com/lmr-195-uf-low-loss-flexible-coax-cable-tpe-jacket-lmr-195-uf-p.aspx

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LMR-195-UF CAD Drawing

Times Microwave LMR-195-UF Low Loss Flexible Coax Cable Black TPE Jacket Ultra Flex



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