Fairview Microwave
RF COMPONENTS ON DEMAND. Done!

SC6025
DATA SHEET

BNC Male Connector Crimp/Solder Attachment For RG58, RG303, RG141, LMR-195, LMR-195-FR, 0.195 inch Cable



BNC male connector with crimp/solder attachment for RG58, RG303, RG141, LMR-195, LMR-195-FR and 0.195 inch, part number SC6025, from Fairview Microwave is in-stock and ships same day. This BNC male connector operates up to a maximum frequency of 4 GHz and offers good VSWR of 1.5:1.

Fairview's BNC male connector SC6025 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		4	GHz
VSWR			1.5:1	
Operating Voltage (AC)			500	Vrms

Mechanical Specifications

Size

Length	0.929 in [23.6 mm]
Weight	0.0255 lbs [11.57 g]

Material Specifications

Description	Material	Plating
Contact	Brass	Gold 30 µin minimum
Insulation	PTFE	
Body	Brass	Nickel 100 µin minimum
Coupling Nut	Brass	Nickel 100 µin 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:

- BNC Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- RG58, RG303, RG141, LMR-195, LMR-195-FR, 0.195 inch Interface Type
- Crimp/Solder Attachment

Features:

- Operating Frequency of 4 GHz Max.
- Good VSWR of 1.5:1
- Gold Plated Brass Contact
- 30 µin minimum contact plating

Applications:

- General Purpose Test
- Custom Cable Assemblies

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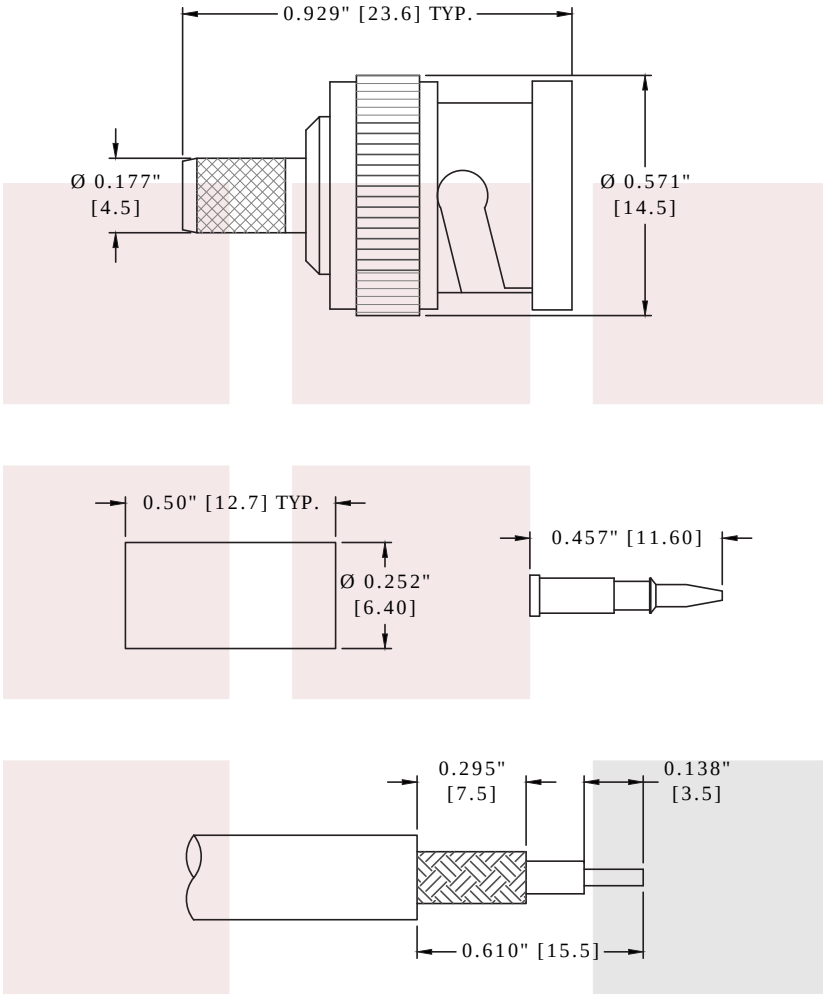
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BNC Male Connector Crimp/Solder Attachment For RG58, RG303, RG141, LMR-195, LMR-195-FR, 0.195 inch Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: BNC Male Connector Crimp/Solder Attachment For RG58, RG303, RG141, LMR-195, LMR-195-FR, 0.195 inch Cable SC6025

URL: https://www.fairviewmicrowave.com/bnc-male-standard-rg58-connector-sc6025-p.aspx

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STRIPPING DIMENSION

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 BNC Male Connector Crimp/Solder Attachment For RG58, RG303, RG141, LMR-195, LMR-195-FR, 0.195 inch Cable	DWG NO SC6250	CAGE CODE 3FKR5			
	CAD FILE 050616	SHEET	SCALE N/A	SIZE A	5568

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SMB Jack (Female) Connector Crimp Attachment for RG58CU, LMR-195, LMR-195-FR, LMR-195-LLPL, RG303HV, TCOM-195, 0.195 Inch Cable



FMCN5438

Configuration

- SMB Jack Connector
- MIL-STD-202
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG58CU, LMR-195, LMR-195-FR, LMR-195-LLPL, RG303HV, TCOM-195, 0.195 Inch cable

Features

- Operating Frequency of 3 GHz Max.
- Excellent VSWR of 1.2:1
- Gold over Nickel over Copper Plated Brass Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

SMB Jack Connector Crimp Attachment for RG58CU, LMR-195, LMR-195-FR, LMR-195-LLPL, RG303HV, TCOM-195 and 0.195 Inch Cable, part number FMCN5438, from Fairview Microwave is in-stock and ships same day. This SMB jack connector operates up to a maximum frequency of 3 GHz and offers excellent VSWR of 1.2:1.

Fairview's SMB jack connector FMCN5438 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		3	GHz
VSWR			1.2:1	
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Inner Conductor DC Resistance			5	mOhms
Outer Conductor DC Resistance			2.5	mOhms
Insulation Resistance	10,000			MOhms
Impedance		50		Ohms

Electrical Specification Notes:
Insertion loss is = 0.1*SQRT(FGHz) dB

Mechanical Specifications

Size

Length	0.173 in [4.39 mm]
Width	0.173 in [4.39 mm]
Height	0.87 in [22.1 mm]
Weight	0.007 lbs [3.18 g]
Mating Cycles	500 Cycles
Mating Torque	1.8 to 14.2 in-lbs [0.20 to 1.60 Nm]

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SMB Jack (Female) Connector Crimp Attachment for RG58CU, LMR-195, LMR-195-FR, LMR-195-LLPL, RG303HV, TCOM-195, 0.195 Inch Cable



FMCN5438

Cable Retention Force	4 lbs [1.81 kg]

Material Specifications

Description	Material	Plating
Contact	Brass	Gold over Nickel over Copper
Insulation	PTFE	
Body	Brass	Gold over Nickel over Copper
Crimp Sleeve	Brass	Gold over Nickel over Copper

Environmental Specifications

Temperature

Operating Range	-65 to 165 deg C
Humidity	MIL-STD-202, Method 106
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:

SMB Jack (Female) Connector Crimp Attachment for RG58CU, LMR-195, LMR-195-FR, LMR-195-LLPL, RG303HV, TCOM-195, 0.195 Inch 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: SMB Jack (Female) Connector Crimp Attachment for RG58CU, LMR-195, LMR-195-FR, LMR-195-LLPL, RG303HV, TCOM-195, 0.195 Inch Cable FMCN5438

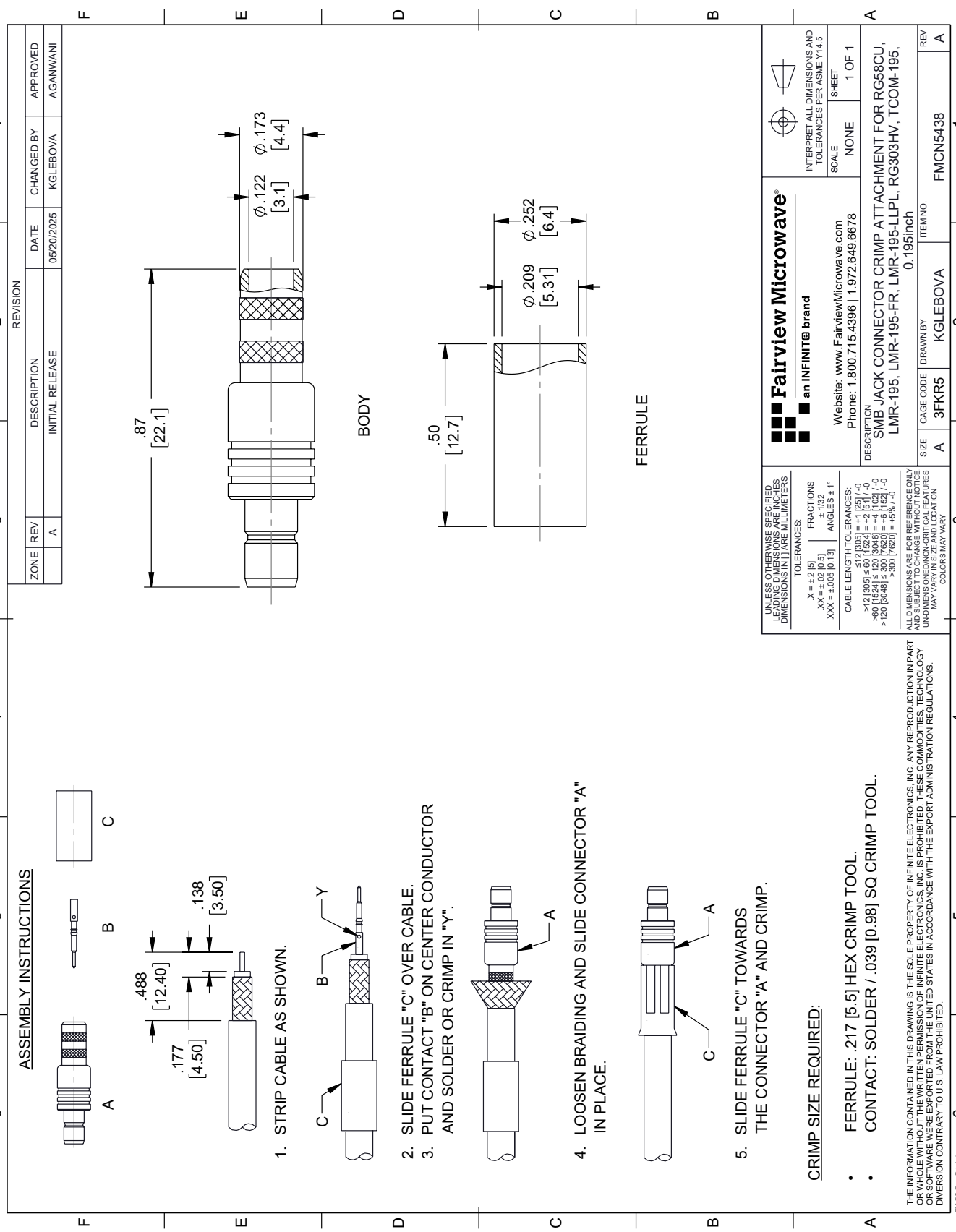
URL: https://www.fairviewmicrowave.com/product/rf-connectors/smb-jack-rg58cu-lmr-195-lmr-195-fr-lmr-195-llpl-rg303hv-tcom-195-0.195-connector-fmcn5438.html

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FMCN5438 CAD Drawing

SMB Jack (Female) Connector Crimp Attachment for RG58CU, LMR-195, LMR-195-FR, LMR-195-LLPL, RG303HV, TCOM-195, 0.195 Inch Cable



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Times Microwave LMR-195 Low Loss Flexible Coax Cable Black PE Jacket



LMR-195

TIMES MICROWAVE SYSTEMS
An Amphenol Company

Times Microwave Systems Connector Specification

Configuration

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

Features

- Max Operating Frequency of 8 GHz
- Low Loss Cable
- Phase Velocity 80% VoP

Applications

- Laboratory Applications
- General Purpose RF Interconnect

Description

LMR-195 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-195 coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss flexible 50 Ohm coax cable LMR-195 is constructed with a 0.195 inch diameter and PE jacket.

LMR-195 flexible 50 Ohm coax cable with PE jacket is rated for a 8 GHz maximum operating frequency. This 50 Ohm 0.195 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-195 coax is constructed with PE (F) dielectric and a maximum operating temperature of 85 degrees C. Times Microwave LMR-195 coax cable specs for this wire properties can be found on its RF coax cable LMR-195 datasheet PDF specifications above.

LMR-195 cable is part of more than one million RF, microwave and millimeter wave parts in stock at Fairview. This Times Microwave low loss LMR-195 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		41		GHz
Impedance		50		Ohms
Velocity of Propagation		80		%
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			7.6	Ohms/1000ft

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Times Microwave LMR-195 Low Loss Flexible Coax Cable Black PE Jacket



LMR-195

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
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]
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	2.5	4.4	5.4	7.8	11.1	dB/100ft
	8.2	14.44	17.72	25.59	36.42	dB/100m
Input Power (CW), Max	680	390	320	220	160	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	5.8	GHz
Attenuation, Typ	14.5	16	16.9	19	29.9	dB/100ft
	47.57	52.49	55.45	62.34	98.1	dB/100m
Input Power (CW), Max	120	110	100	90	60	Watts

Mechanical Specifications

Diameter	0.195 in [4.95 mm}
Weight	0.022 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	0.2 lbs-ft [0.27 N-m]
Tensile Strength	40 lbs [18.14 kg]
Flat Plate Crush	15 lbs/in [0.27 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strand	0.037 in [0.94 mm]
Conductor Type	Solid	
Dielectric	PE (F)	0.11 in [2.79 mm]
First Shield	Aluminum Tape	
Second Shield	Tinned Copper Braid	
Jacket	PE, Black	0.195 in [4.95 mm]

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Times Microwave LMR-195 Low Loss Flexible Coax Cable Black PE Jacket



LMR-195

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-195 Low Loss Flexible Coax Cable Black PE 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-195 Low Loss Flexible Coax Cable Black PE Jacket LMR-195

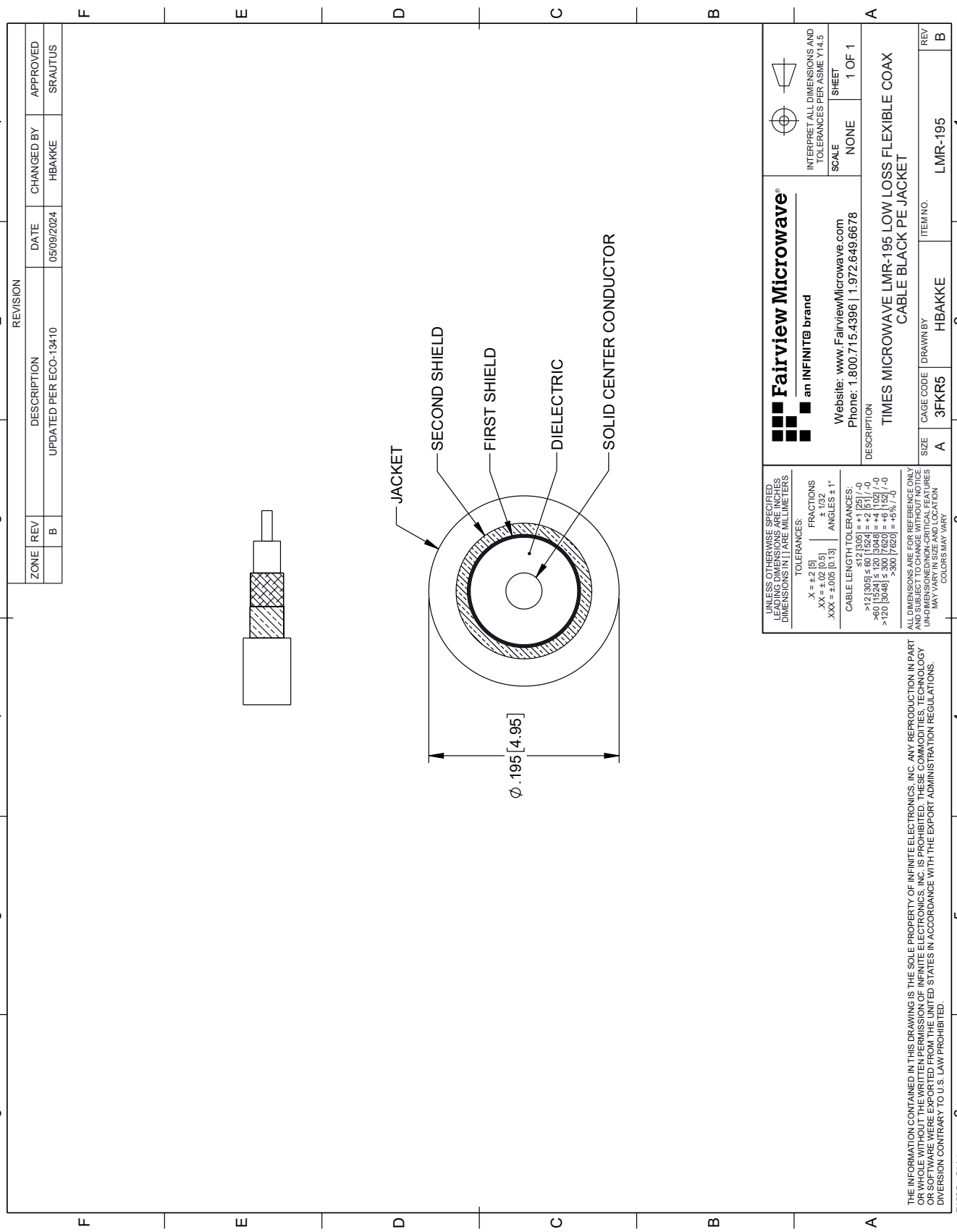
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LMR-195 CAD Drawing

Times Microwave LMR-195 Low Loss Flexible Coax Cable Black PE Jacket



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