

SMA Female Bulkhead Connector Crimp/Solder Attachment For RG58, RG141, RG303, 0.195 inch, LMR-195, LMR-195-FR Cable

SMA female bulkhead connector with crimp/solder attachment for RG58, RG141, RG303, 0.195 inch, LMR-195 and LMR-195-FR, part number SC7071, 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 1.3:1. Fairview's SC7071 bulkhead SMA 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 SMA female bulkhead connector SC7071 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		12.4	GHz
VSWR			1.3:1	
Operating Voltage (AC)			500	Vrms

Mechanical Specifications

Size	
Length	0.94 in [23.88 mm]
Weight	0.01102 lbs [5 g]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 50 µin minimum
Insulation	PTFE	
Outer Conductor	Passivated Stainless Steel	

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
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- RG58, RG141, RG303, 0.195 inch, LMR-195, LMR-195-FR Interface Type
- Crimp/Solder Attachment
- Bulkhead
- 5/16 inch Hex

Features:

- Operating Frequency of 12.4 GHz Max.
- Good VSWR of 1.3:1
- Gold Plated Beryllium Copper Contact
- 50 µin minimum contact plating

Applications:

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

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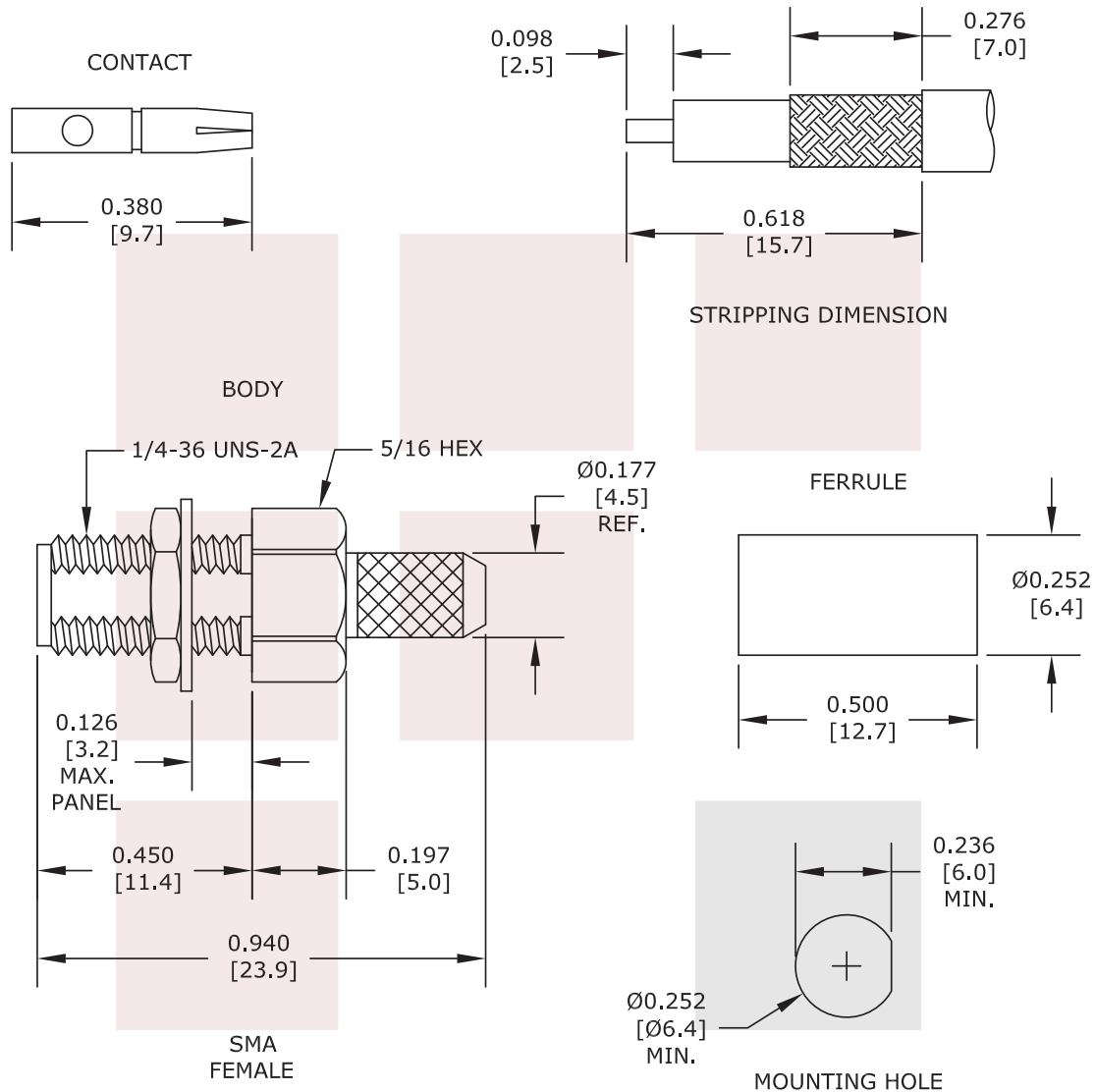
SMA Female Bulkhead Connector Crimp/Solder Attachment For RG58, RG141, RG303, 0.195 inch, LMR-195, LMR-195-FR Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas.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

For additional information on this product, please click the following link: [SMA Female Bulkhead Connector Crimp/Solder Attachment For RG58, RG141, RG303, 0.195 inch, LMR-195, LMR-195-FR Cable SC7071](#)

URL: <https://www.fairviewmicrowave.com/sma-female-standard-rg58-connector-sc7071-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

SMA Female Bulkhead Connector Crimp/Solder
Attachment For RG58, RG141, RG303, 0.195 inch,
LMR-195, LMR-195-FR Cable

DWG NO

SC7071

CAGE CODE

3FKR5

CAD FILE

120616

SHEET

SCALE

N/A

SIZE

A

41742

N-M CLAMP RG55, RG58

SC9302

SPECIFICATIONS

ELECTRICAL:

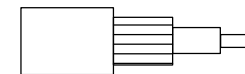
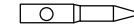
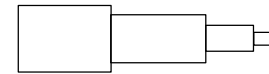
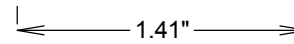
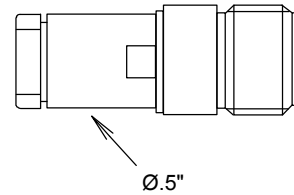
FREQUENCY: 0-11 GHZ
VSWR 1.3:1 MAX
IMPEDANCE: 50 OHMS

MECHANICAL:

MATERIAL BODY: NICKLE PLATED BRASS
CENTER CONTACT: BRASS
CONTACT PLATING: Si QQ-S-365
INSULATOR: TEFLON
INTERFACE: MIL-STD-348B
ROHS COMPLIANT
OP. TEMP RANGE: -55°C- +155°C

ASSEMBLY INSTRUCTIONS:

TRIM CABLE TO OVERALL LENGTH AS SHOWN;
SLIDE BACKNUT, WASHER, GASKET, CLAMP ON CABLE;
COMB BRAID WIRES OUT, FOLD BACK, TRIM FLUSH W CLAMP;
TRIM DIELECTRIC & CENTER PIN AS SHOWN;
ASSEMBLE REAR BUSHING;
SOLDER CONTACT ONTO CENTER CONDUCTOR,
INSERT ASSEMBLY INTO BODY, TIGHTEN NUT



STRIPPING DIMENSIONS

FAIRVIEW MICROWAVE INC.

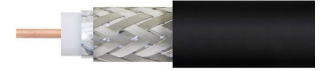
ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM

TITLE

N-M CLAMP RG55, RG58

SIZE	CAGE CODE	DWG NO	REV
A	3FKR5	SC9302	--
SCALE	SHEET		

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



LMR-195



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.

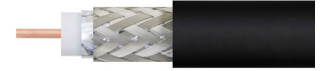
LMR-195 cable is part of more than one million RF, microwave and millimeter wave parts in stock at Fairview. This Times Microwave low loss LMR-195 coax cable is ready to buy and can be shipped worldwide. Fairview also maintains a wide selection of other radio frequency twinaxial and coaxial cable types 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

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

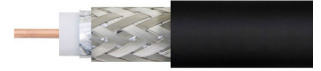
Mechanical Specifications

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]

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](#)

URL: <https://www.fairviewmicrowave.com/lmr195-low-loss-flexible-coax-cable-pe-jacket-lmr-195-p.aspx>

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

