

10KV Female Bulkhead Connector Crimp/Solder Attachment for RG58 Cable

The Fairview Microwave FMCN45837 is designed for high voltage applications and is rated to 10KV. This 10KV female bulkhead connector utilizes crimp/solder attachment for the contact. Our 10KV female bulkhead IP67 mated coax connector from Fairview Microwave has an interface type of RG58.

The Fairview Microwave 10KV female bulkhead coaxial connector has a PE (HD) dielectric type. This Fairview Microwave 10KV coax cable connector has a brass body with tinned copper plating. Our 10KV female bulkhead connector uses brass contact with gold over nickel over copper plating material. This 10KV female bulkhead coax RF connector is RoHS and REACH compliant, you can find this 10KV female coax connector datasheet specifications above.

Fairview Microwave standard straight female 10 KV bulkhead connector will ship the same day. Our bulkhead 10KV standard straight female high voltage connector is part of over one million RF, microwave, and millimeter wave components in stock and ready for same-day shipment worldwide. We also build custom standard cable assemblies that will ship quickly from our location.

Electrical Specifications

Description	Min	Typ	Max	Units
Operating Voltage (DC)			10,000	Vdc
Test Voltage (DC)			15,000	Vdc
Inner Cond. DC Resistance			3	mOhms
Outer Cond. DC Resistance			2	mOhms
Insulation Resistance	1,000			MOhms

Mechanical Specifications

Size	
Length	2.7 in [68.58 mm]
Width/Dia.	0.75 in [19.05 mm]
Height	0.75 in [19.05 mm]
Weight	0.016 lbs [7.26 g]

Material Specifications

Description	Material	Plating
Contact	Brass	Gold over nickel over copper
Insulation	PE (HD)	
Body	Brass	Tinned Copper
Coupling Nut	Brass	Tinned Copper
Gasket	Silicone	
Crimp Sleeve	Brass	Tinned Copper



Configuration:

- 10KV Female Connector
- MIL-STD-202
- Straight Body Geometry
- RG58 Interface Type
- Crimp/Solder Attachment
- Bulkhead

Features:

- Gold over nickel over copper Plated Brass Contact
- IP67
- High Density PE Insulator

Applications:

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies
- High Voltage Pulsed RF Transmission

Fairview Microwave
301 Leora Ln., Suite 100
Lewisville, TX 75056
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Environmental Specifications

Temperature

Operating Range

-55 to +85 deg C

Ingress Protection (IP) Rating

IP67

Salt Spray

MIL-STD-202, Method 101, Condiiton B

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

Plotted and Other Data

Notes:

Assembly Instruction

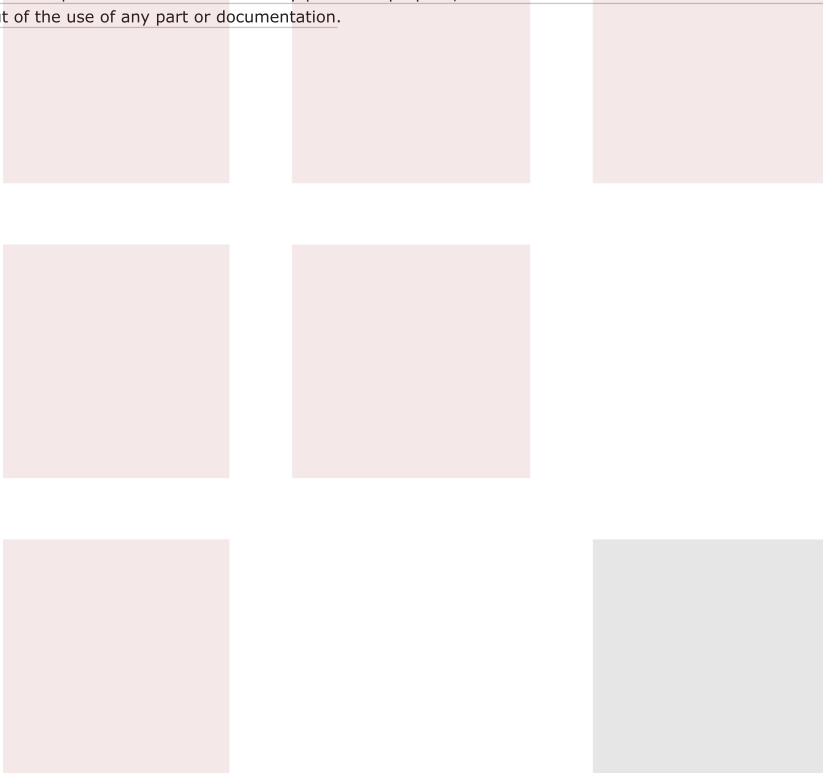
A	B	C	D
BODY + LOCK WASHER + GASKET + HEX NUT	CONTACT PIN	GASKET	FERRULE
DIAGRAM	ASSEMBLY INSTRUCTION		
	Step 1: STRIP AS SHOWN.		
	Step 2: SLIDE FERRULE "D" OVER CABLE. Step 3: PUT GASKET "C" AND PIN "B" ON CENTER CONDUCTOR AND SOLDER IN "Y".		
	Step 4: LOOSEN BRAIDING AND SLIDE CONNECTOR "A" IN PLACE.		
	Step 5: SLIDE FERRULE "C" TOWARDS THE CONNECTOR "A" AND CRIMP. (USE 5.5mm/0.217inch HEX SECTION OF INSERT-B)		

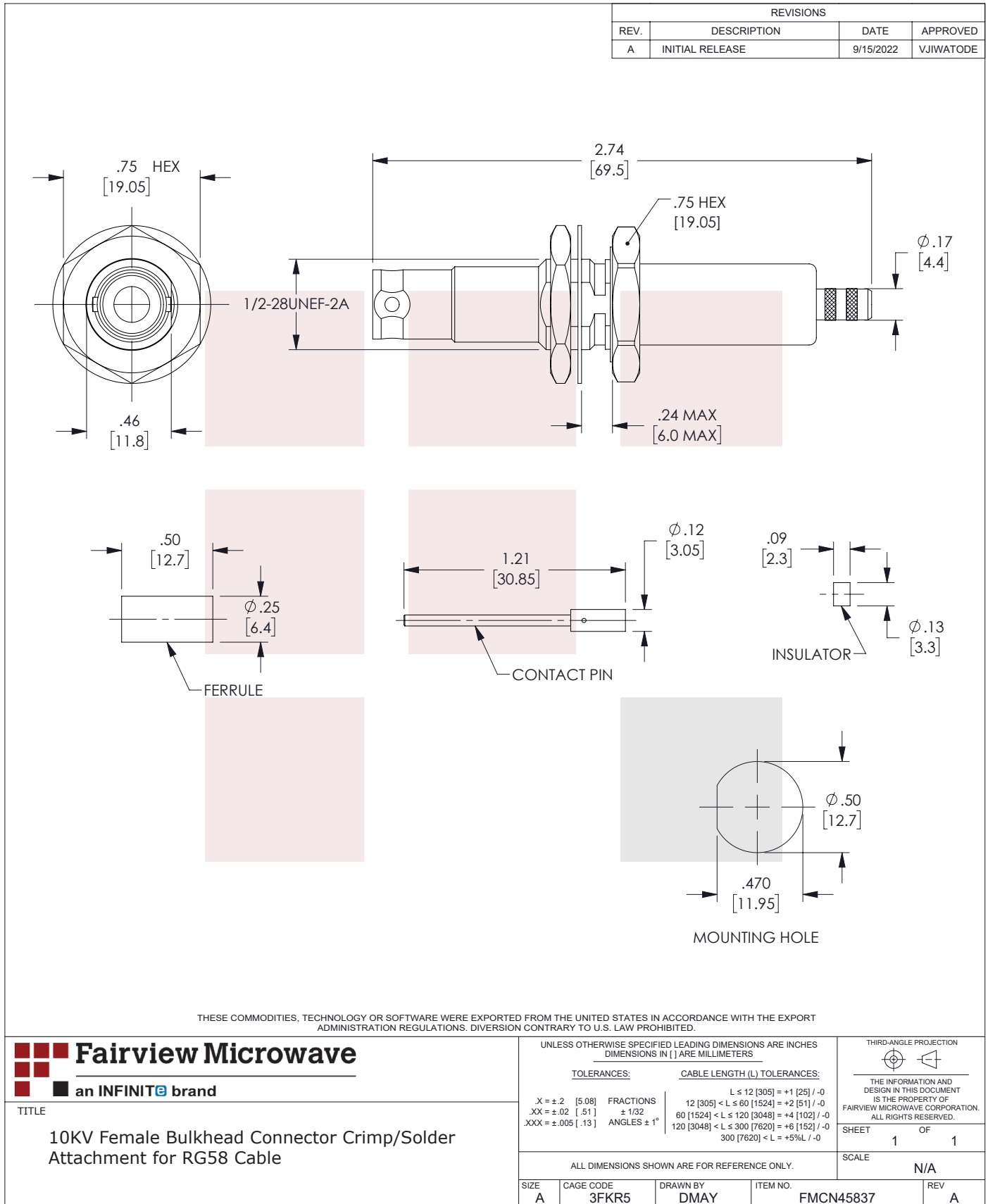
10KV Female Bulkhead Connector Crimp/Solder Attachment for RG58 Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [10KV Female Bulkhead Connector Crimp/Solder Attachment for RG58 Cable FMCN45837](#)

URL: <https://www.fairviewmicrowave.com/10kv-female-rg58-connector-fmcn45837-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.





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Ingress Protection (IP) Rating

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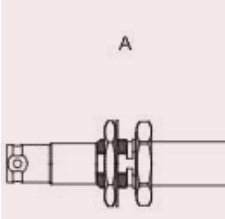
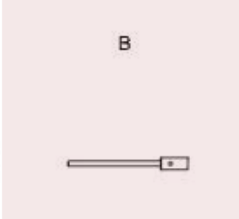
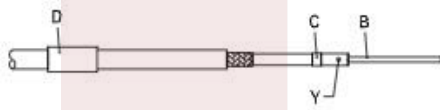
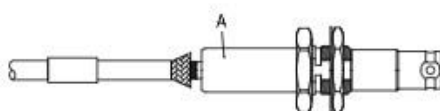
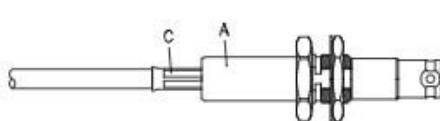
MIL-STD-202, Method 101, Condiiton B

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

Plotted and Other Data

Notes:

Assembly Instruction

			
BODY + LOCK WASHER + GASKET + HEX NUT	CONTACT PIN	GASKET	FERRULE
DIAGRAM		ASSEMBLY INSTRUCTION	
		Step 1: STRIP AS SHOWN.	
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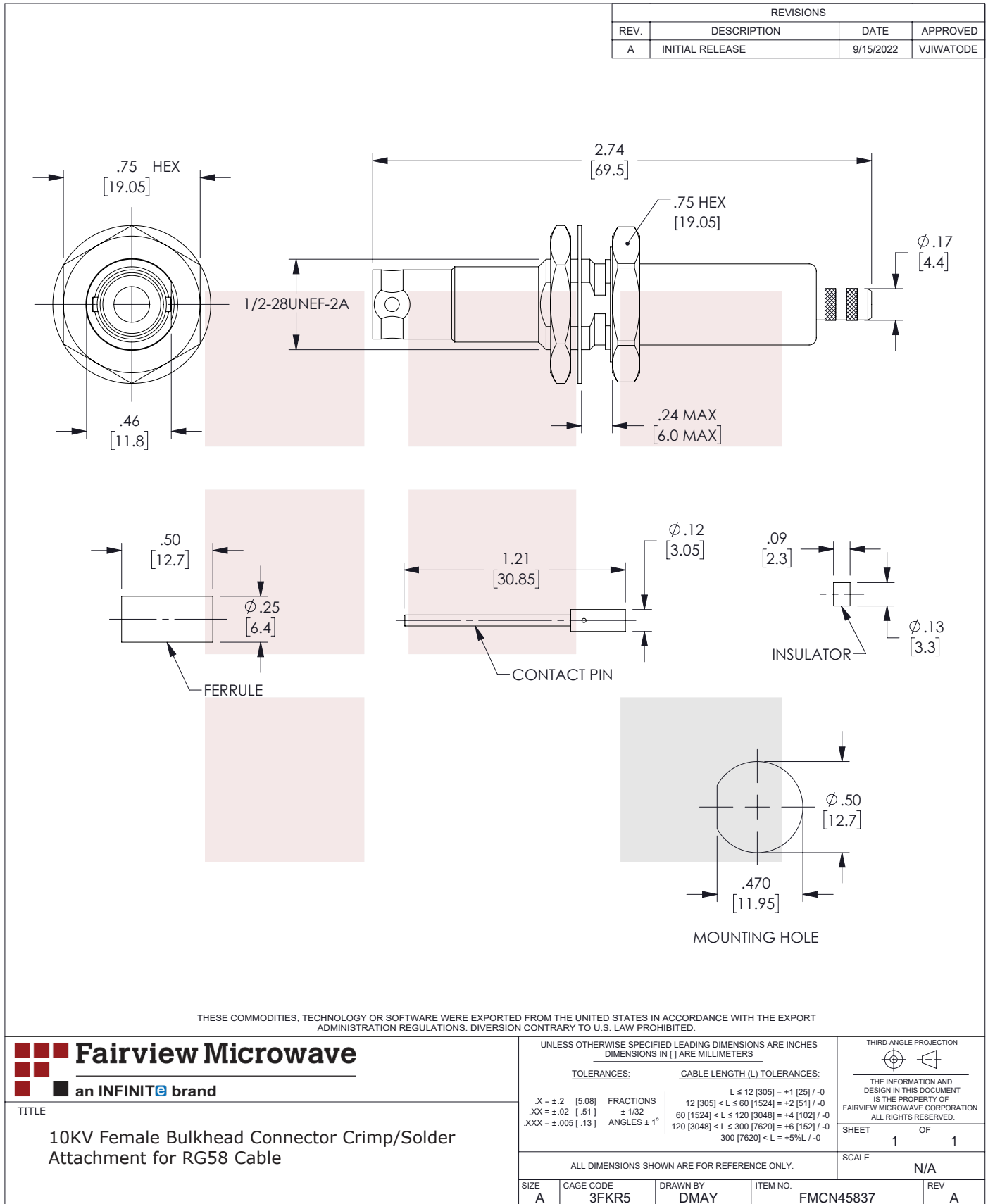
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T-Rev.D

Times Microwave LMR-LW195 Low Loss Flexible Coax Cable Black PE Jacket Light Weight

Times Microwave Systems Coax Cable Specification

LMR-LW195 Light weight 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-LW195 coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss and light weight flexible 50 Ohm coax cable LMR-LW195 is constructed with a 0.195 inch diameter and Black PE jacket.

LMR-LW195 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 an aluminum double shield count and RF shielding of 90 dB. Times Microwave LMR-LW195 PE coax is constructed with Foam PE dielectric and a maximum operating temperature of 85 degrees C. Fairview Microwave's offering of LMR-LW195 coax cable provides specs for this wire on its RF coax cable LMR-LW195 datasheet.

LMR-LW195 cable is part of more than one million RF, microwave parts in stock at Fairview Microwave. This Times Microwave low loss and light weight LMR-LW195 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		8	GHz
Impedance		50		Ohms
Velocity of Propagation		80		%
Time Delay		1.27 [4.17]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
DWV (DC)			1,000	Vdc
Jacket Spark			3,000	Vrms
Inner Conductor DC Resist.			7.6	Ohms/1000ft
Outer Conductor DC Resist.			18.1	Ohms/1000ft
Nominal Capacitance		25.4		pF/ft
		[83.33]		[pF/m]
Nominal Inductance		0.064		uH/ft
		[0.21]		[uH/m]
Input Power (Peak)			2.5	kWatts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.05	0.15	0.45	0.9	1.5	GHz
Attenuation, Typ	2.5	4.4	7.8	11.1	14.5	dB/100ft
	8.2	14.44	25.59	36.42	47.57	dB/100m



Configuration:

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

Features:

- Max Operating Frequency of 8 GHz
- Phase Velocity 80% VoP
- Aluminum Shielding Resulting in a Light Weight Coax
- Max Operating Temperature +85°C
- PE Jacket
- Min Install Bend Radius of 0.5 inches

Applications:

- General Purpose RF Interconnect
- Laboratory Applications
- Antenna Installs
- RF Test Systems
- Wireless Communications

Fairview Microwave
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sales@fairviewmicrowave.com

Power In (CW), Max	680	390	220	160	120	Watts
Description	F6	F7	F8	F9	F10	Units
Frequency	1.8	2	2.5	5.8	8	GHz
Attenuation, Typ	16 52.49	16.9 55.45	19 62.34	29.9 98.1	35.7 117.13	dB/100ft dB/100m
Power In (CW), Max	110	100	90	60	40	Watts

Mechanical Specifications

Diameter	0.195 in [4.95 mm]
Weight	0.015 lbs/ft [0.02 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 Strands	0.037 in [0.94 mm]
Conductor Type	Solid	
Dielectric	Foam PE	0.11 in [2.79 mm]
First Shield	Aluminum Tape	[]
Second Shield	Aluminium	[]
Jacket	PE, 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

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

Plotted and Other Data

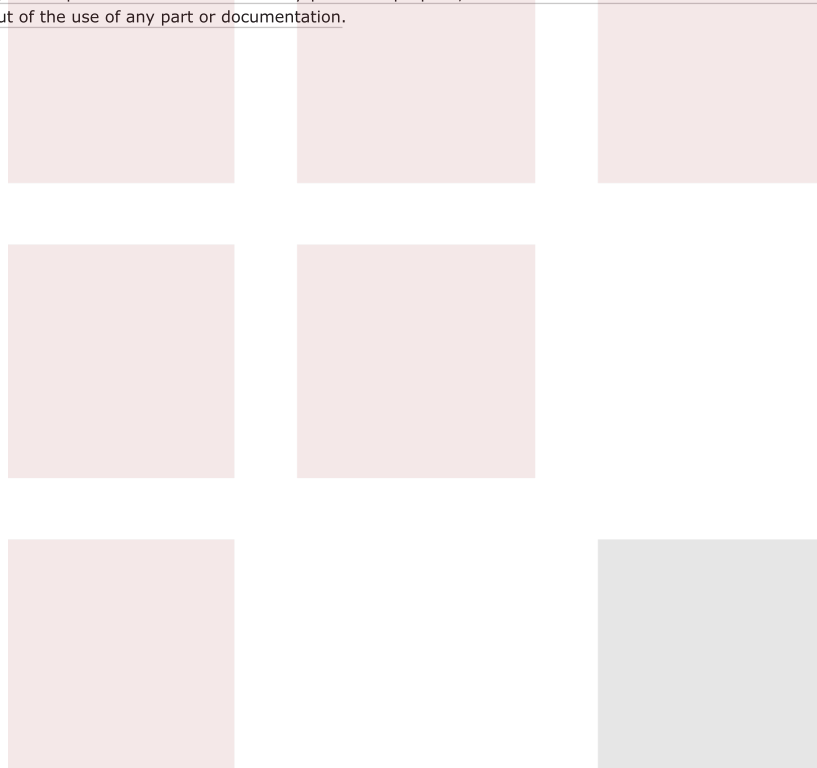
Notes:

Times Microwave LMR-LW195 Low Loss Flexible Coax Cable Black PE Jacket Light Weight 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.

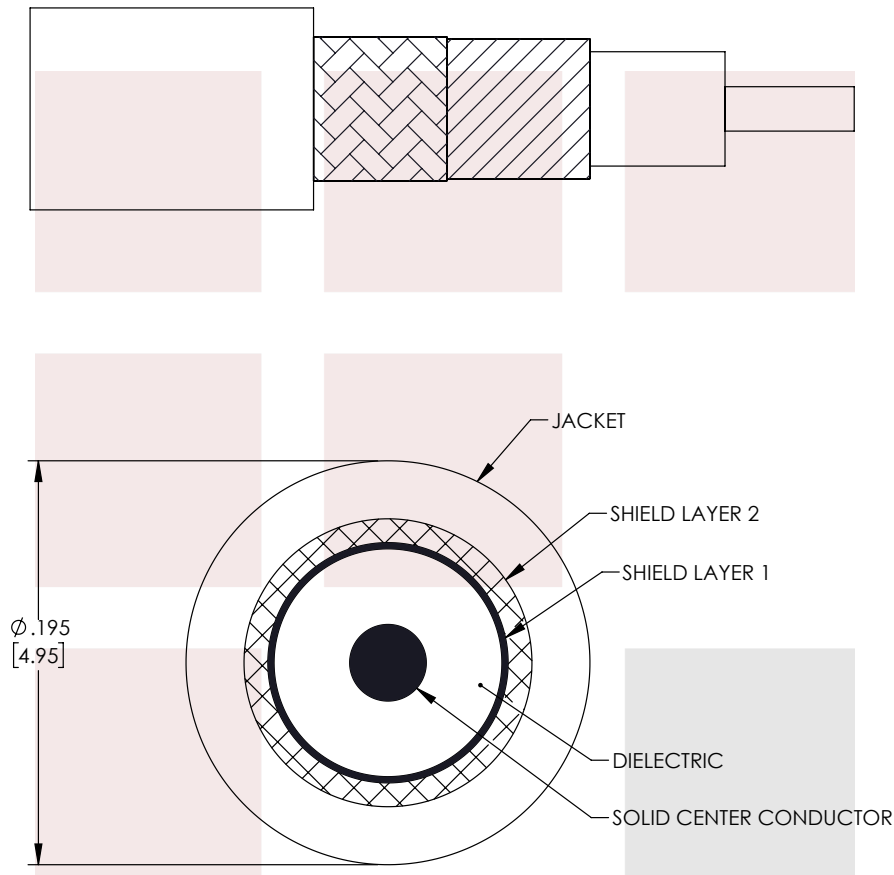
Click the following link to obtain additional part information: [Times Microwave LMR-LW195 Low Loss Flexible Coax Cable Black PE Jacket Light Weight LMR-LW195](https://www.fairviewmicrowave.com/lmr-lw195-low-loss-flexible-coax-cable-pe-jacket-lmr-lw195-p.aspx)

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



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TITLE

Times Microwave LMR-LW195 Low Loss Flexible Coax
Cable Black PE Jacket Light Weight

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
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

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.				
SIZE A	CAGE CODE 3FKR5	DRAWN BY MVEERAPPAN	ITEM NO. LMR-LW195	REV A

T-Rev.D