

2.2-5 Male Low PIM Connector Solder Attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR141CUTN-COIL Cable

2.2-5 male connector with solder/solder attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR and FM-SR141CUTN-COIL, part number FMCN1935, from Fairview Microwave is in-stock and ships same day. This 2.2-5 male connector operates up to a maximum frequency of 6 GHz. The 2.2-5 male connector also has low passive intermodulation (PIM) of -155 dBc.

Fairview's 2.2-5 male connector FMCN1935 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		6	GHz
Passive Intermodulation			-155	dBc
DWV (AC)			750	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Freq. Range	DC to 3	3 to 6				GHz
VSWR, Max	1.15:1	1.25:1				

Mechanical Specifications

Size	
Length	0.79 in [20.07 mm]
Width/Dia.	0.69 in [17.53 mm]
Height	0.69 in [17.53 mm]
Weight	0.041 lbs [18.6 g]

Material Specifications

Description	Material	Plating
Contact	Brass	Silver
Insulation	PTFE	
Body	Brass	Tri-Metal
Coupling Nut	Brass	Tri-Metal
O-Ring	Silicone Rubber	



Configuration:

- 2.2-5 Male Connector
- 50 Ohms
- Straight Body Geometry
- FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR-141CUTN-COIL Interface Type
- Solder/Solder Attachment
- Low PIM Design

Features:

- Operating Frequency of 6 GHz Max.
- PIM levels better than -155 dBc
- Silver Plated Brass Contact

Applications:

- General Purpose Test
- Wireless Communications
- Custom Cable Assemblies
- Low PIM Applications

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Environmental Specifications

Temperature

Operating Range -40 to +155 deg C

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

Plotted and Other Data

Notes:

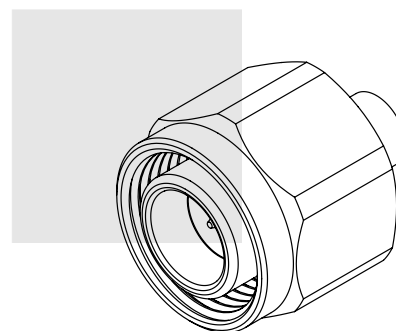
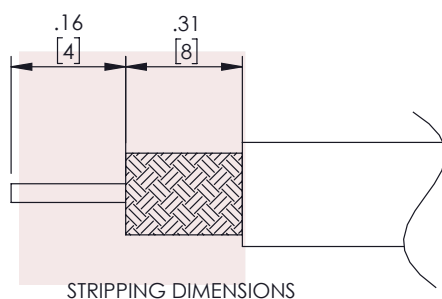
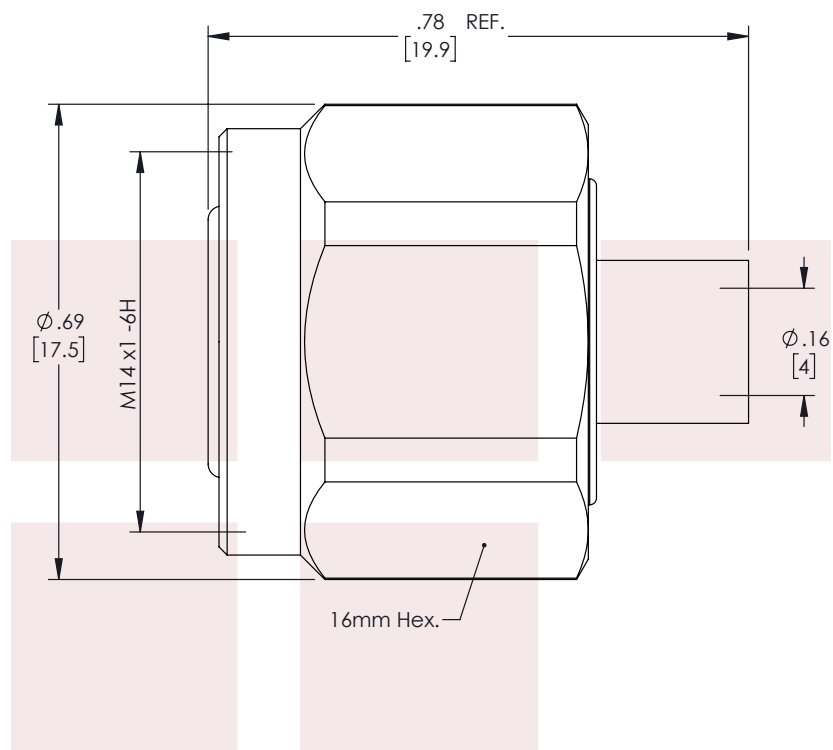
2.2-5 Male Low PIM Connector Solder Attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR141CUTN-COIL Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2.2-5 Male Low PIM Connector Solder Attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR141CUTN-COIL Cable FMCN1935](#)

URL: <https://www.fairviewmicrowave.com/2.2-5-male-fm-sr141tb-fm-sr141tbj-fm-sr141cu-str-fm-sr141cutn-coil-connector-fmcn1935-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	8/17/2022	AGANWANI



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TITLE

2.2-5 Male Low PIM Connector Solder Attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR141CUTN-COIL Cable

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

TOLERANCES:

CABLE LENGTH (L) TOLERANCES:

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

$$\begin{aligned} L \leq 12 \text{ [305]} &= +1 \text{ [25]} / -0 \\ 12 \text{ [305]} < L \leq 60 \text{ [1524]} &= +2 \text{ [51]} / -0 \\ 60 \text{ [1524]} < L \leq 120 \text{ [3048]} &= +4 \text{ [102]} / -0 \\ 120 \text{ [3048]} < L \leq 300 \text{ [7620]} &= +6 \text{ [152]} / -0 \\ 300 \text{ [7620]} < L &= +5\%L / -0 \end{aligned}$$

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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THIRD-ANGLE PROJECTION



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RA QMA Male Low PIM Connector Solder Attachment for FM-SR141ALTN-COIL, FM-SR141CU-COIL, FM- SR141CUTN-COIL, FM-SR141TB, FM-SR141TBJ Cable

FMCN45988



Configuration

- QMA Male Connector
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: FM-SR141ALTN-COIL, FM-SR141CU-COIL, FM-SR141CUTN-COIL, FM-SR141TB, FM-SR141TBJ
- Low PIM Design

Features

- Operating Frequency of 6 GHz Max.
- Silver Plated Brass Contact
- Max of VSWR 1.15:1 at 3GHz, Max of VSWR 1.25:1 at 6GHz
- PIM is less than -150dBc at 1.8GHz typical

Applications

- General Purpose Test
- Wireless Communications
- Custom Cable Assemblies
- Low PIM Applications

Description

RA QMA Male Low PIM Connector Solder/Solder Attachment for FM-SR141ALTN-COIL, FM-SR141CU-COIL, FM-SR141CUTN-COIL, FM-SR141TB and FM-SR141TBJ Cable, part number FMCN45988, from Fairview Microwave is in-stock and ships same day. This QMA male connector operates up to a maximum frequency of 6 GHz. Its right angle body geometry facilitates connections in tight spaces.

Fairview's RA QMA male connector FMCN45988 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		6	GHz
Dielectric Withstanding Voltage (AC)			750	Vrms
Impedance		50		Ohms

Mechanical Specifications

Size

Length	0.716535 in [18.2 mm]
Width	0.385827 in [9.80 mm]
Height	0.413386 in [10.5 mm]
Weight	0.01298 lbs [5.89 g]

Material Specifications

Description	Material	Plating
Contact	Brass	Silver
Insulation	PTFE	
Body	Brass	Tri-Metal
Coupling Nut	Brass	Tri-Metal

RA QMA Male Low PIM Connector Solder Attachment for FM-SR141ALTN-COIL, FM-SR141CU-COIL, FM- SR141CUTN-COIL, FM-SR141TB, FM-SR141TBJ Cable

FMCN45988



Environmental Specifications

Temperature

Operating Range

-40 to +155 deg C

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

Plotted and Other Data

Notes:

RA QMA Male Low PIM Connector Solder Attachment for FM-SR141ALTN-COIL, FM-SR141CU-COIL, FM-SR141CUTN-COIL, FM-SR141TB, FM-SR141TBJ 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 QMA Male Low PIM Connector Solder Attachment for FM-SR141ALTN-COIL, FM-SR141CU-COIL, FM-SR141CUTN-COIL, FM-SR141TB, FM-SR141TBJ Cable FMCN45988](#)

URL: <https://www.fairviewmicrowave.com/qma-male-fm-sr141altn-coil-fm-sr141cu-coil-fm-sr141cutn-coil-fm-sr141tb-fm-sr141tbj-connector-fmcn45988-p.aspx>

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RA QMA Male Low PIM Connector Solder Attachment for FM-SR141ALTN-COIL, FM-SR141CU-COIL, FM-SR141CUTN-COIL, FM-SR141TB, FM-SR141TBJ Cable



.141 Semi-rigid Formable Coax Cable Black FEP Jacket

Formable semi-rigid coax is a hand formable version of standard semi-rigid that does not require complicated and costly preformed cable assemblies. Because the dimensions and electrical characteristics are so closely matched to semi-rigid coax, standard semi-rigid connectors can be used. The tin soaked copper braid outer shield provides excellent RF shielding. FEP Jacket reduces the chance of shorting exposed contacts or circuit conductors.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		20	GHz
Cutoff Frequency		34		GHz
Impedance		50		Ohms
Velocity of Propagation		70		%
Time Delay		1.43 [4.69]		ns/ft [ns/m]
Shielding Effectiveness	110			dB
Operating Voltage (AC)			1,900	Vrms
Nominal Capacitance		29 [95.14]		pF/ft [pF/m]

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	5	10	20	GHz
Attenuation, Typ	8 26.25	12 39.37	29 95.14	45 147.64	70 229.66	dB/100ft dB/100m

Mechanical Specifications

Diameter	0.161 in [4.09 mm]
Weight	0.032 lbs/ft [0.05 Kg/m]
Min. Bend Radius (Installation)	0.315 in [8 mm]
Min. Bend Radius (Repeated)	1.575 in [40.01 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 1 Strands	0.036 in [0.91 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.117 in [2.97 mm]
First Shield	Tinned Copper Braid	
Jacket	FEP, Black	0.161 in [4.09 mm]



Configuration:

- Formable Cable
- 1 Shield(s)

Features:

- Dimensionally the same as standard solid outer conductor semi-rigid coax
- Standard semi-rigid connectors can be used
- Cable is hand formable and does not require special tools to bend
- Connectors are easily soldered to Tin soaked outer conductor
- Cable can be formed more than once without damage to outer conductor
- High RF Shielding >100 dB

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Environmental Specifications

Temperature

Operating Range -65 to 150 deg C

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

Plotted and Other Data

Notes:

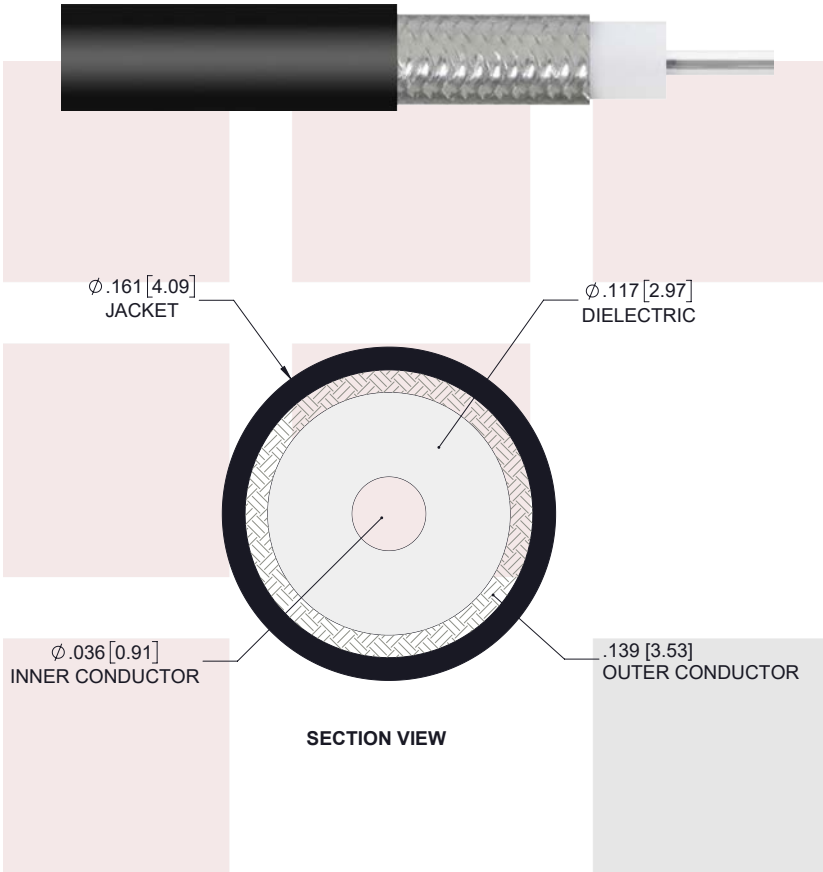
.141 Semi-rigid Formable Coax Cable Black FEP Jacket from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [.141 Semi-rigid Formable Coax Cable Black FEP Jacket FM-SR141TBJ](#)

URL: <https://www.fairviewmicrowave.com/fm-sr141tbj-formable-coax-cable-fep-jacket-fm-sr141tbj-p.aspx>

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A	INITIAL RELEASE	11/22/19	S.ELLIS



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TITLE .141 Semi-rigid Formable Coax Cable Black FEP Jacket		TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
		.X = ±.2 [.51] FRACTIONS ± 1/32 .XX = ±.02 [.51] ANGLES ± 1° .XXX = ±.005 [.13]		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	
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