

1.85mm Male Connector Solder Attachment For FM-SR086CU-STR, FM-SR086CU-COIL, FM-SR086ALTN-COIL Cable

1.85mm male connector with solder attachment for FM-SR086CU-STR, FM-SR086CU-COIL and FM-SR086ALTN-COIL, part number FMCN1429, from Fairview Microwave is in-stock and ships same day. This 1.85mm male connector operates up to a maximum frequency of 60 GHz and offers excellent VSWR of 1.18:1.

Fairview's 1.85mm male connector FMCN1429 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		60	GHz
VSWR			1.18:1	
Insertion Loss			0.31	dB
Operating Voltage (AC)			335	Vrms
DWV (AC)			1,000	Vrms
High Potential Voltage 5 to 7.5 MHz			670	Vrms
Corona Discharge at 70,000 ft			250	Vrms
Insulation Resistance	5,000			MOhms
RF Leakage	-90			dB

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Freq. Range	DC to 26.5	26.5 to 40	40 to 50	50 to 60		GHz
VSWR, Max	1.12:1	1.14:1	1.16:1	1.18:1		

Electrical Specification Notes:
Insertion loss: $0.04 \times \sqrt{f(\text{GHz})}$ dB.

Mechanical Specifications

Size	
Length	0.58 in [14.73 mm]
Width/Dia.	0.312 in [7.92 mm]
Height	0.35 in [8.89 mm]
Weight	0.008 lbs [3.63 g]
Mating Cycles	500 Cycles
Mating Torque	8 to 10 in-lbs [0.90 to 1.13 Nm]



Configuration:

- 1.85mm Male Connector
- 50 Ohms
- Straight Body Geometry
- FM-SR086CU-STR, FM-SR-086CU-COIL, FM-SR086ALTN-COIL Interface Type
- Solder Attachment
- 5/16 inch Hex

Features:

- Operating Frequency of 60 GHz Max.
- Excellent VSWR of 1.18:1
- Gold over Nickel Plated Beryllium Copper Contact
- 50 μ m minimum contact plating

Applications:

- General Purpose Test
- Custom Cable Assemblies

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Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel 50 µin minimum
Insulation	PEI	
Body	Beryllium Copper	Gold over Nickel 50 µin minimum
Coupling Nut	Passivated Stainless Steel	ASTM-A582
Retaining Ring	Beryllium Copper	
Gasket	Silicone Rubber	

Environmental Specifications

Temperature

Operating Range

Shock

Vibration

Thermal Shock

Salt Spray

-65 to +150 deg C

MIL-STD-202, Method 213, Condition I

MIL-STD-202, Method 204, Condition D

MIL-STD-202, Method 107, Condition B

MIL-STD-202, Method 101, Condition B, 5% salt solution

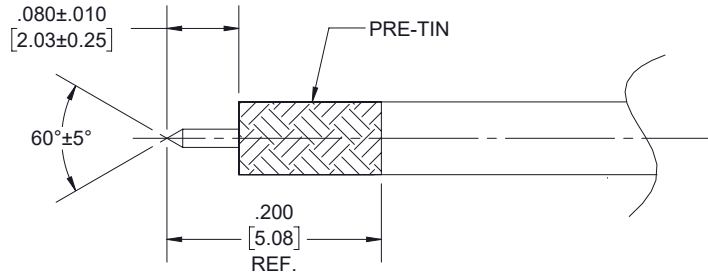
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Assembly Instruction

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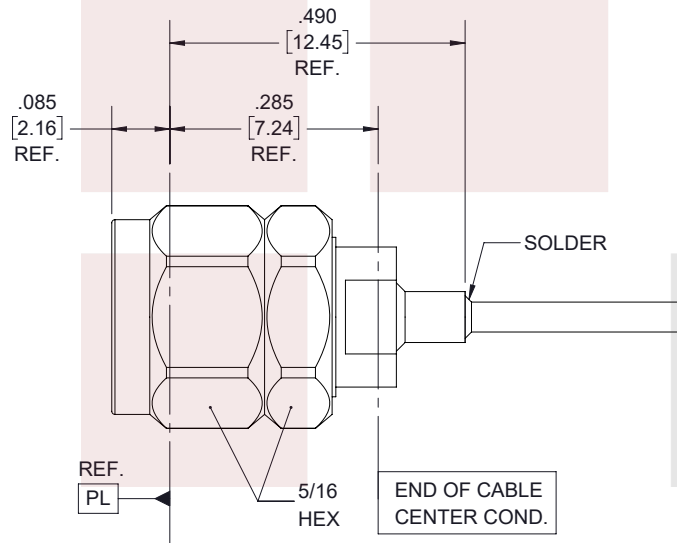


STEP 1:

- PRE-TIN CABLE OUTER JACKET OVER APPROX. LENGTH SHOWN.
- TRIM CABLE TO EXPOSE CENTER CONDUCTOR AS SHOWN.
- POINT CENTER CONDUCTOR AS INDICATED.

STEP 2:

- INSERT CABLE INTO CONNECTOR UNTIL CENTER CONDUCTOR PLUGS IN AND CABLE SEATS IN CONNECTOR BORE.
- SOLDER CABLE JACKET TO BODY WHERE SHOWN APPLYING HEAT TO EXTENDED BODY TAIL.

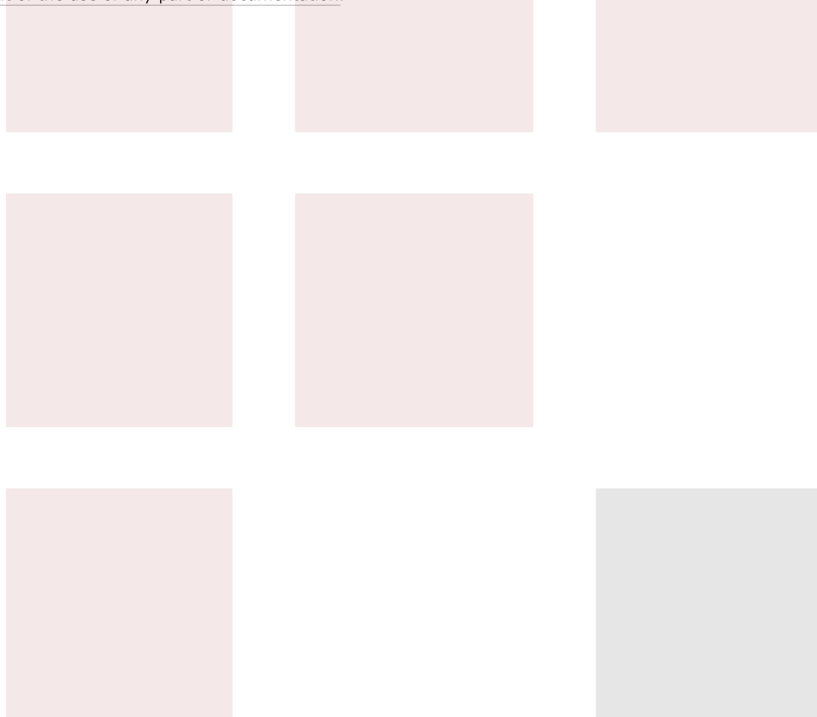


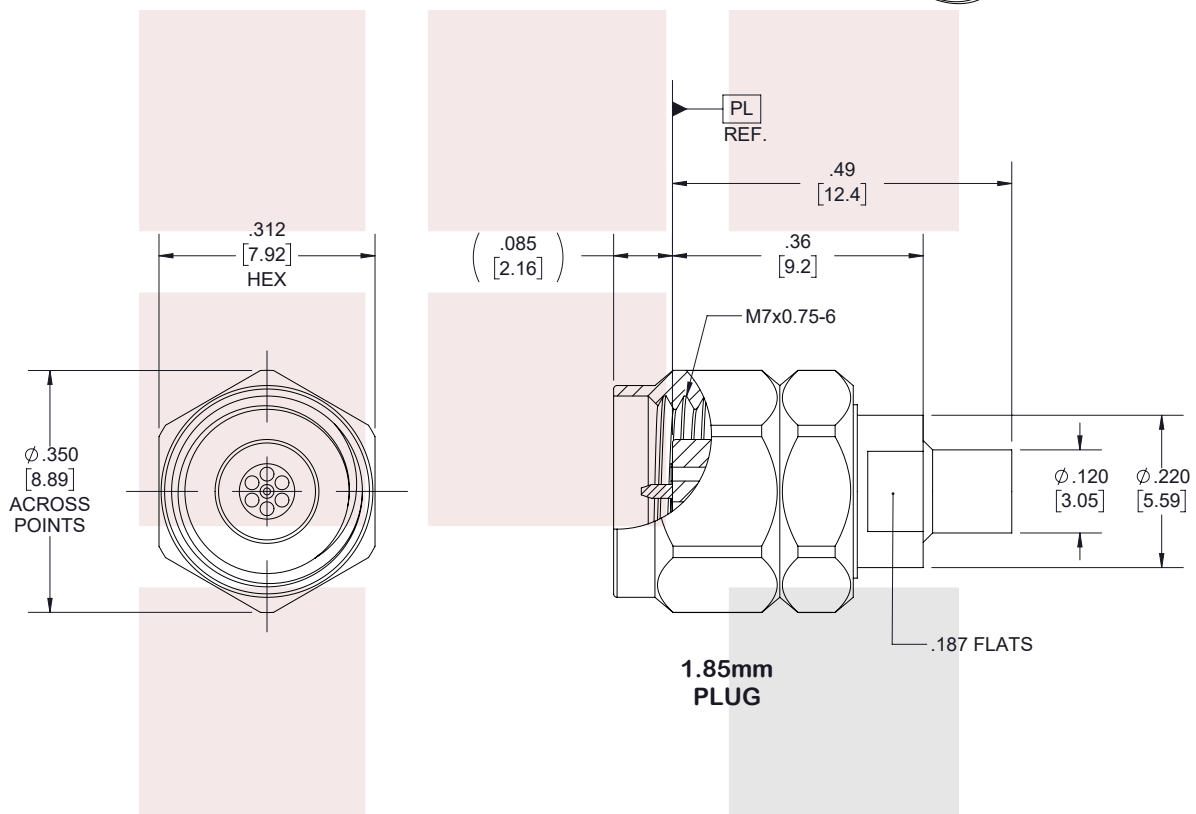
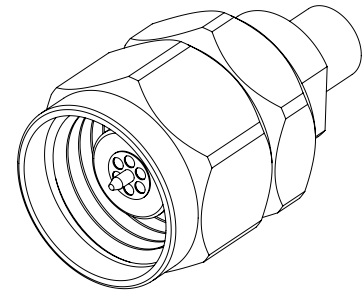
1.85mm Male Connector Solder Attachment For FM-SR086CU-STR, FM-SR086CU-COIL, FM-SR086ALTN-COIL Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [1.85mm Male Connector Solder Attachment For FM-SR086CU-STR, FM-SR086CU-COIL, FM-SR086ALTN-COIL Cable FMCN1429](#)

URL: <https://www.fairviewmicrowave.com/1.85mm-male-fm-sr086cu-str-fm-sr086cu-coil-fm-sr086altn-coil-connector-fmcn1429-p.aspx>

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STANDARD TOLERANCES

.X	±0.2
.XX	±0.02
.XXX	±0.005

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC.

ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM

TITLE

1.85mm Male Connector Solder Attachment For FM-SR086CU-STR, FM-SR086CU-COIL, FM-SR086ALTN-COIL Cable

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].

DWG NO

FMCN1429

CAGE CODE

3FKR5

CAD FILE

110217

SHEET

1 OF 1

SCALE

N/A

SIZE

A

7361

SMA Female Connector Solder/Non-Solder Contact Attachment For RG405, RG405 Tinned, .086 SR Cable

SMA female connector with solder/non-solder contact attachment for RG405, RG405 Tinned and .086 SR, part number SC3519A, from Fairview Microwave is in-stock and ships same day. This SMA female connector operates up to a maximum frequency of 18 GHz and offers excellent VSWR of 1.25:1.

Fairview's SMA female connector SC3519A 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		18	GHz
VSWR			1.25:1	
Operating Voltage (AC)			335	Vrms

Mechanical Specifications

Size	
Length	0.5 in [12.7 mm]
Width/Dia.	0.276 in [7.01 mm]
Weight	0.007 lbs [3.18 g]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 50 µin minimum
Insulation	PTFE	
Outer Conductor	Stainless Steel	Gold 3 µin minimum
Body	Stainless Steel	Gold 3 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:

- SMA Female Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- RG405, RG405 Tinned, .086 SR Interface Type
- Solder/Non-Solder Contact Attachment

Features:

- Operating Frequency of 18 GHz Max.
- Excellent VSWR of 1.25:1
- Gold Plated Beryllium Copper Contact
- 50 µin minimum contact plating

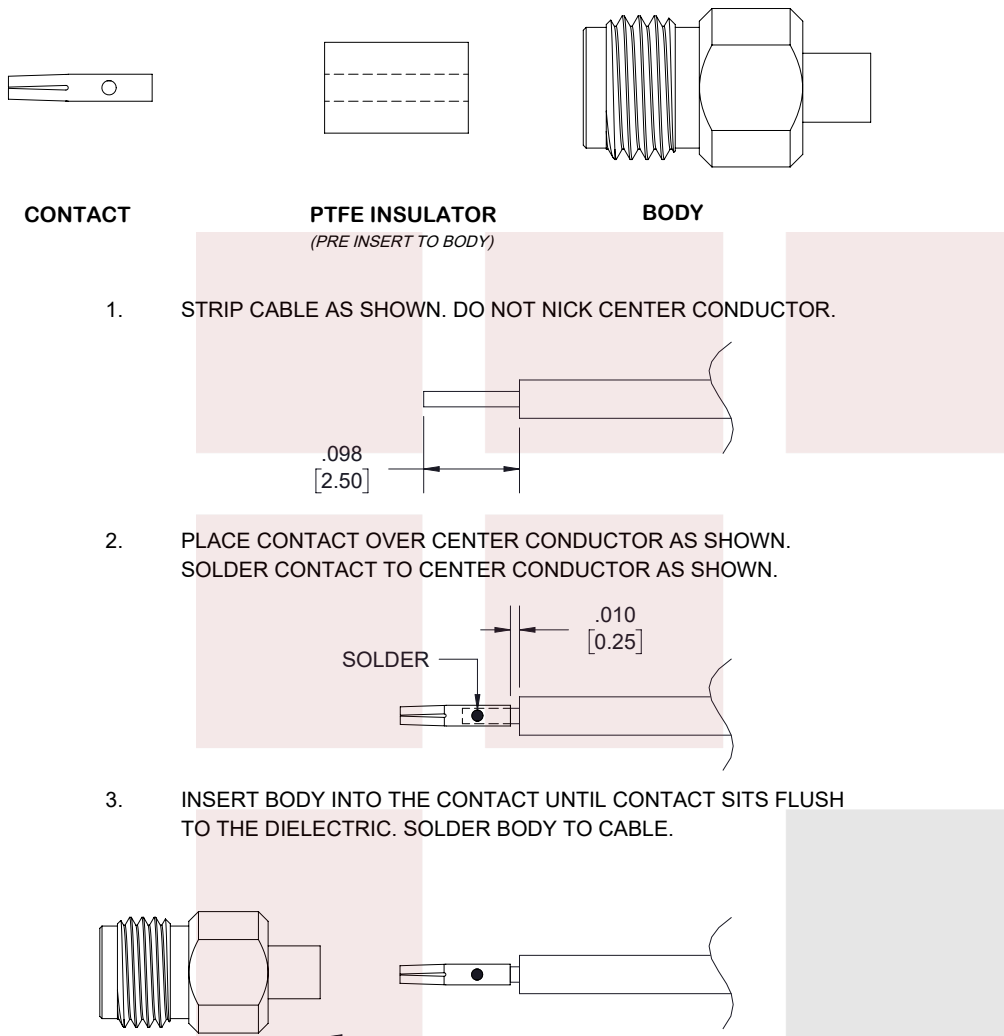
Applications:

- General Purpose Test
- Custom Cable Assemblies

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Assembly Instruction

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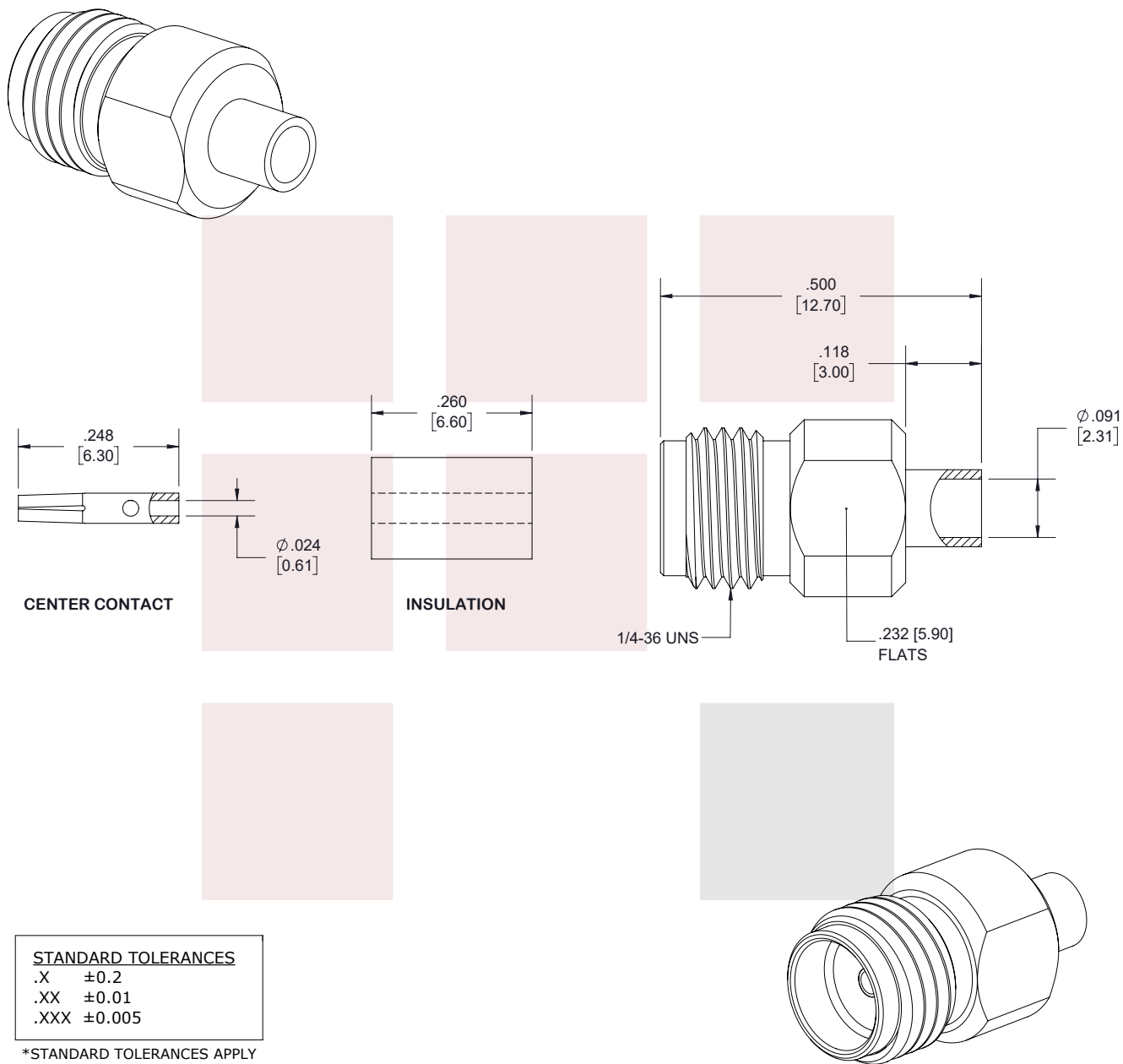


SMA Female Connector Solder/Non-Solder Contact Attachment For RG405, RG405 Tinned, .086 SR Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA Female Connector Solder/Non-Solder Contact Attachment For RG405, RG405 Tinned, .086 SR Cable SC3519A](https://www.fairviewmicrowave.com/sma-female-rg-405-connector-sc3519a-p.aspx)

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TITLE SMA Female Connector Solder/Non-Solder Contact Attachment For RG405, RG405 Tinned, .086 SR Cable	DWG NO SC3519A		CAGE CODE 3FKR5		
	CAD FILE 120517	SHEET 1 OF 2	SCALE N/A	SIZE A	7361

Formable .086 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		61	GHz
Impedance		50		Ohms
Velocity of Propagation		69.5		%
Time Delay		1.43 [4.69]		ns/ft [ns/m]
Shielding Effectiveness	100			dB
Operating Voltage (AC)			1,500	Vrms
Inner Conductor DC Resist.			65.7	Ohms/1000ft
Outer Conductor DC Resist.			10.2	Ohms/1000ft
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	15 49.21	22.5 73.82	54.9 180.12	81.2 266.4	120 393.7	dB/100ft dB/100m
Power In (CW), Max	173.5	121.5	52.2	35.8	24.3	Watts

Mechanical Specifications

Diameter	0.105 in [2.67 mm]
Weight	0.026 lbs/ft [0.04 Kg/m]
Min. Bend Radius (Installation)	0.5 in [12.7 mm]
Min. Bend Radius (Repeated)	0.787 in [19.99 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 1 Strands	0.02 in [0.51 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.062 in [1.57 mm]
Outer Conductor	Tinned Copper Composite Braid	0.085 in [2.16 mm]
Jacket	FEP, Black	0.105 in [2.67 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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sales@fairviewmicrowave.com

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

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

Plotted and Other Data

Notes:

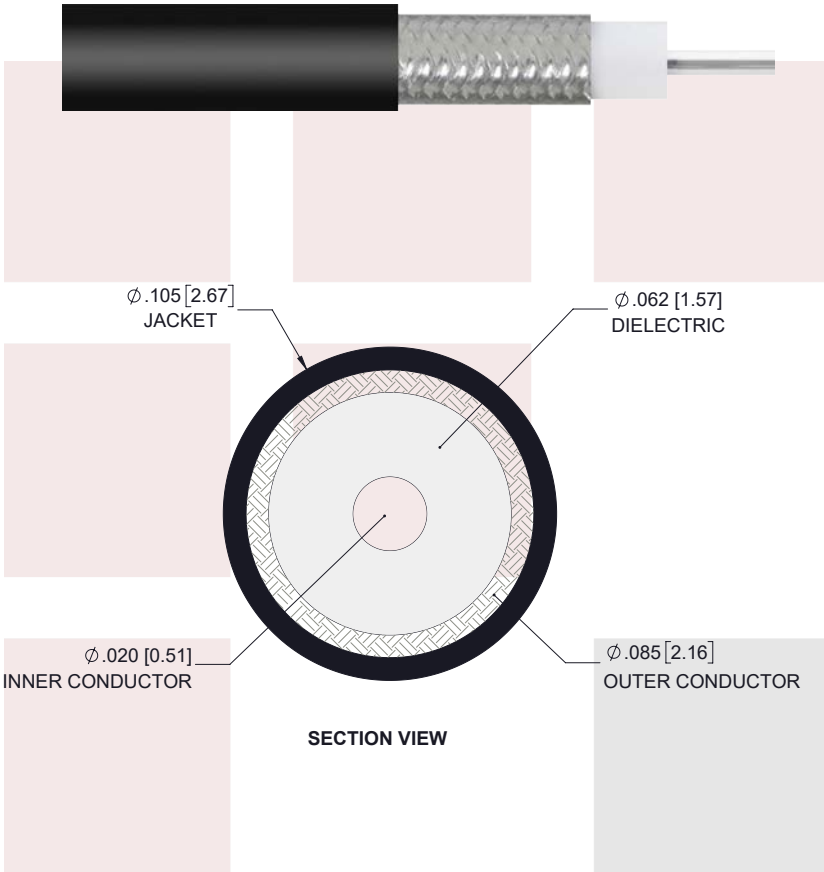
Formable .086 Formable Coax Cable Black FEP Jacket from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Formable .086 Formable Coax Cable Black FEP Jacket FM-SR086TBJ](#)


URL: <https://www.fairviewmicrowave.com/invalid-alias-formable-coax-cable-fep-jacket-fm-sr086tbj-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/22/19	S.ELLIS



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TITLE Formable .086 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	
		ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.	
		SIZE A		SHEET 1 OF 1	
		CAGE CODE 3FKR5		SCALE N/A	
		DRAWN BY K.DANG		PART NUMBER FM-SR086TBJ	
				REV A	

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