

FMCA2116-36 DATA SHEET

SMA Male to SMA Male Cable FM-SR086TBJ Coax in 36 Inch

The SMA male to SMA male 36 inch cable using FM-SR086TBJ coax, part number FMCA2116-36, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to male gender configuration with 50 ohm formable FM-SR086TBJ coax. Fairview Microwave's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. The FMCA2116-36 SMA male to SMA male cable assembly operates to 18 GHz.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

Description	Min	Т	ур	Max	U	nits
Frequency Range	DC			18	(GHz
VSWR				1.4:1		
Velocity of Propagation		6	9.5			%
RF Shielding	100					dB
Group Delay		1.43	[4.69]		ns/ft	[ns/m]
Capacitance		29 [95.14]		pF/ft	[pF/m]
DC Resistance Inner Cor	nductor	65.7 [215.55		Ω/1000	Oft [Ω/Km]
DC Resistance Outer Cor	nductor	10.2	[33.46]		Ω/1000	Oft [Ω/Km]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.87	1.12	1.73	2.48	3.57	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

 Length*
 36 in [914.4 mm]

 Diameter
 0.315 in [8 mm]

Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type

FM-SR086TBJ 50 Ohms Solid Copper Clad Steel, Silver

PTFE



Configuration:

- SMA Male
- SMA Male
- FM-SR086TBJ

Features:

- Max Frequency 18 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket
- Dimensionally and electrically the same as standard, solid outer conductor semi-rigid coax
- Cable may be formed by hand and does not require special tools to bend
- May be formed more than once without damaging the outer conductor
- High RF Shielding >100 dB
- 100% Hi-pot and continuity tested
- 100% VSWR tested to max frequency of assembly
- Standard and custom lengths ship the same day

Applications:

- General Purpose
- Laboratory Use

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056

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Outer Conductor Material and Plating

Jacket Material Jacket Diameter Tinned Copper Composite Braid

FEP, Black

0.105 in [2.67 mm]

One Time Minimum Bend Radius Repeated Minimum Bend Radius

0.5 in [12.7 mm] 0.787 in [19.99 mm]

Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male	SMA Male	
Impedance	50 Ohms	50 Ohms	
Contact Material & Plating	Brass, Gold over Nickel	Brass, Gold over Nickel	
Dielectric Type	PTFE	PTFE	
Body Material & Plating	Brass, Gold over Nickel	Brass, Gold over Nickel	
Coupling Nut Material & Pla	iting Passivated Stainless Steel	Passivated Stainless Steel	
Hex Size	5/16 inch	5/16 inch	
Torque	8 in-lbs 0.9 Nm	8 in-lbs 0.9 Nm	

Mechanical Specification Notes:

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.

How to Order

Part Number Configuration:

FMCA2116 - xx uu | cm = Centimeters | chank> = Inches | Length

Example: FMCA2116-12 = 12 inches long cable

FMCA2116-100cm = 100 cm long cable

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^{*}All cable assemblies have a length tolerance of 1.5% or \pm 3/8", whichever is greater.





SMA Male to SMA Male Cable FM-SR086TBJ Coax in 36 Inch 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: SMA Male to SMA Male Cable FM-SR086TBJ Coax in 36 Inch FMCA2116-36

URL: https://www.fairviewmicrowave.com/sma-male-sma-male-cable-fm-sr086tbj-coax-fmca2116-36-p.aspx







