

FMCA2149-24 DATA SHEET

SMA Female 2 Hole Flange to RA SMP Female Cable FM-SR086TBJ Coax in 24 Inch

The SMA female 2 hole flange to RA SMP female 24 inch cable using FM-SR086TBJ coax, part number FMCA2149-24, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMP cable assembly has a female to female gender configuration with 50 ohm formable FM-SR086TBJ coax. Fairview Microwave's formable RF cable assemblies provide an alternative to costly pre-formed semirigid assemblies since they are hand formable. The FMCA2149-24 SMA female to SMP female cable assembly operates to 10 GHz. The right angle SMP interface on the FM-SR086TBJ cable allows for easier connections in tight spaces. Our RF cable assembly with SMA 2 hole flange interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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 | ι | Jnits |
|-------------------------|---------|--------|---------|-------|-------|------------|
| Frequency Range | DC | | | 10 | | GHz |
| VSWR | | | | 1.4:1 | | |
| Velocity of Propagation | | 6 | 9.5 | | | % |
| RF Shielding | 100 | | | | | dB |
| Group Delay | | 1.43 | [4.69] | | ns/f | t [ns/m] |
| Capacitance | | 29 [9 | 95.14] | | pF/f | t [pF/m] |
| DC Resistance Inner Cor | nductor | 65.7 [| 215.55 | | Ω/100 | 0ft [Ω/Km] |
| DC Resistance Outer Cor | nductor | 10.2 | [33.46] | | Ω/100 | Oft [Ω/Km] |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-----|------|-------|-------|-------|-------|
| Frequency | 0.5 | 1 | 2.5 | 5 | 10 | GHz |
| Insertion Loss (Typ.) | 0.6 | 0.75 | 0.993 | 1.398 | 1.923 | 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 0.2 dB per connector.

Mechanical Specifications

Cable Assembly

Length* 24 in [609.6 mm] Diameter 0.25 in [6.35 mm]

Cable

Cable Type FM-SR086TBJ



Configuration:

- SMA Female 2 Hole Flange
- SMP Female Right Angle
- FM-SR086TBJ

Features:

- Max Frequency 10 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

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Impedance50 OhmsInner Conductor TypeSolid

Inner Conductor Material and Plating Copper Clad Steel, Silver

Dielectric Type PTFE

Outer Conductor Material and Plating Tinned Copper Composite Braid

Jacket Material FEP, Black

Jacket Diameter 0.105 in [2.67 mm]

One Time Minimum Bend Radius 0.5 in [12.7 mm]
Repeated Minimum Bend Radius 0.787 in [19.99 mm]

Connectors

| Description | Connector 1 | Connector 2 |
|----------------------------|---------------------|----------------------------|
| Туре | SMA Female | SMP Female |
| Mount Method | 2 Hole Flange | |
| Specification | MIL-STD-348 | DESC 94008 |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material & Plating | Beryllium Copper, G | old Beryllium Copper, Gold |
| Contact Plating Spec. | MIL-G-45204 | MIL-G-45204 |
| Dielectric Type | PTFE | PTFE |
| Body Material & Plating | Stainless Steel, Go | ld Beryllium Copper, Gold |
| Body Plating Spec. | MIL-G-45204 | MIL-G-45204 |
| | | |

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:

FMCA2149 - xx uu | cm = Centimeters | chlank> = Inches | Length

Example: FMCA2149-12 = 12 inches long cable

FMCA2149-100cm = 100 cm long cable

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





SMA Female 2 Hole Flange to RA SMP Female Cable FM-SR086TBJ Coax in 24 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 Female 2 Hole Flange to RA SMP Female Cable FM-SR086TBJ Coax in 24 Inch FMCA2149-24

URL: https://www.fairviewmicrowave.com/sma-female-ra-smp-female-cable-fm-sr086tbj-coax-fmca2149-24-p.aspx







