

# FMCA3144-36 DATA SHEET

# SHV Jack to SHV Jack Cable RG-58 Coax in 36 Inch

The SHV jack to SHV jack 36 inch cable using RG-58 coax, part number FMCA3144-36, from Fairview Microwave is in-stock and ships same day. This Fairview SHV to SHV cable assembly has a jack to jack gender configuration with 50 ohm flexible RG58 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA3144-36 SHV jack to SHV jack cable assembly operates to 300 MHz. Safety high voltage connectors are designed to allow signal transmission with high voltage ratings without safety risk for the operators. Both the pin and socket contacts are securely recessed inside the insulation to guard against potential electrical shock when live unmated connectors are handled.

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	Units
Frequency Range	DC			300	MHz
Velocity of Propagation		6.	5.9		%
Capacitance		30.8 [	101.05]		pF/ft [pF/m]
Operating Voltage (AC)				1,900	Vrms

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	50	100	250	300		MHz
Insertion Loss (Typ.)	0.29	0.35	0.43	0.45		dB

### **Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax 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] Weight 0.521 lbs [236.32 g]

#### **Cable**

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields
Shield Layer 1
Jacket Material
lacket Diameter

RG58 50 Ohms Stranded Copper, Tin PE

Tinned Copper Braid PVC (NC), Black 0.195 in [4.95 mm]



# **Configuration:**

- SHV Jack
- SHV Jack
- RG58

# Features:

- Max Frequency 300 MHz
- 65.9% Phase Velocity
- PVC (NC) Jacket
- Dielectric withstanding of 5kV
- Shock, Moisture & Corrosion resistant
- Recessed contacts prevent shock hazards

# **Applications:**

- General Purpose
- Laboratory Use
- Nuclear Instrumentation
- High Voltage Electrical Transmission
- Semiconductor Test

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One Time Minimum Bend Radius Repeated Minimum Bend Radius 0.98 in [24.89 mm] 1.96 in [49.78 mm]

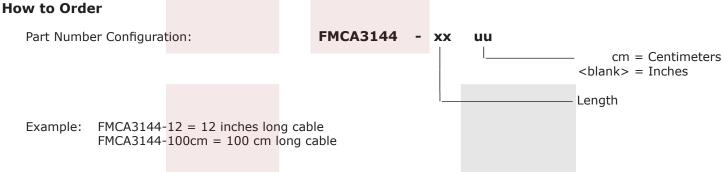
#### **Connectors**

Description	Connector 1	Connecto	Connector 2	
Туре	SHV Jack	SHV Jack		
Specification	MIL-STD-348B	MIL-STD-348B		
Impedance	50 Ohms	50 Ohms		
Contact Material & Plating	Brass, Gold over Nickel ov	er copperBrass, Gold ov	er Nickel o	ver copper
Dielectric Type	Teflon	Teflon		
Body Material & Plating	Brass, Tinned Cop	oer Brass, Tinned (	Copper	
Environmental Specification Temperature Operating Range		) to +80 deg C		

**Compliance Certifications** (see product page for current document)

# **Plotted and Other Data**

Notes:



SHV Jack to SHV Jack Cable RG-58 Coax in 36 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: SHV Jack to SHV Jack Cable RG-58 Coax in 36 Inch FMCA3144-

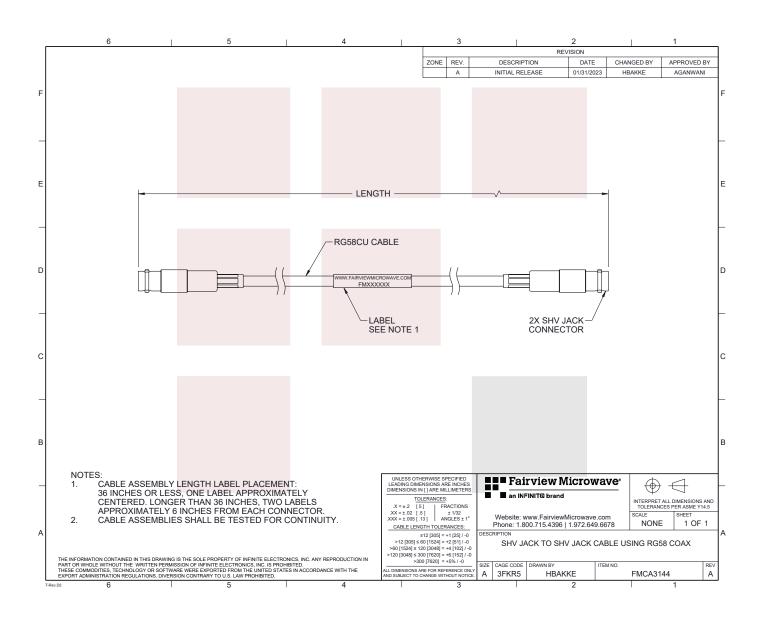
URL: https://www.fairviewmicrowave.com/shv-jack-to-shv-jack-cable-rg58-coax-in-36-inch-fmca3144-36-p.aspx

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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