



SSMC Jack Right Angle Bulkhead to MMCX Plug Cable Using RG178B/U Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

PE3W09356/HS

Configuration

- Connector 1: SSMC Jack Right Angle Bulkhead
- Connector 2: MMCX Plug
- Cable Type: RG178

Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- FEP Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W09356/HS SSMC jack right angle bulkhead to MMCX plug cable using RG178 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SSMC to MMCX cable assembly has a jack to plug gender configuration with 50 ohm flexible RG178 coax. The PE3W09356/HS SSMC jack to MMCX plug cable assembly operates to 3 GHz. The right angle SSMC interface on the RG178 cable allows for easier connections in tight spaces. Our RF cable assembly with SSMC bulkhead 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 available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMC Jack Right Angle Bulkhead to MMCX Plug Cable Using RG178B/U Coax with Heat-Shrink PE3W09356/HS](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Leakage		-50		dB
DC Resistance Inner Conductor		0 [0]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		0 [0]		Ω /1000ft [Ω /Km]
Operating Voltage (AC)			170	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.138	0.208	0.305	0.444	0.784	dB/ft
	0.45	0.68	1	1.46	2.57	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB for the right angle connector and 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Cable

Cable Type	RG178
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.072 in [1.83 mm]
Repeated Minimum Bend Radius	0.4 in [10.16 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SSMC Jack Right Angle Bulkhead	MMCX Plug
Specification		BS EN 122340
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	MIL-G-45204	30 µin minimum
Dielectric Type	Teflon	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold	
Outer Conductor Plating Specification	MIL-G-45204	
Body Material and Plating	Brass, Gold	Brass, Gold
Body Plating Specification	MIL-G-45204	3 µin minimum
Torque	1.75 in-lbs [0.2 Nm]	

Environmental Specifications

Temperature

Operating Range

-55 to +155 deg C

Shock

Method 213, Condition B, 75G @6ms @1/2 sine

Vibration

Method 204, Condition D (20G)

Salt Fog

Method 101, Condition B, 5% salt solution

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W09356/HS - xx uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3W09356/HS-12 = 12 inches long cable
PE3W09356/HS-100cm = 100 cm long cable

SSMC Jack Right Angle Bulkhead to MMCX Plug Cable Using RG178B/U Coax with HeatShrink from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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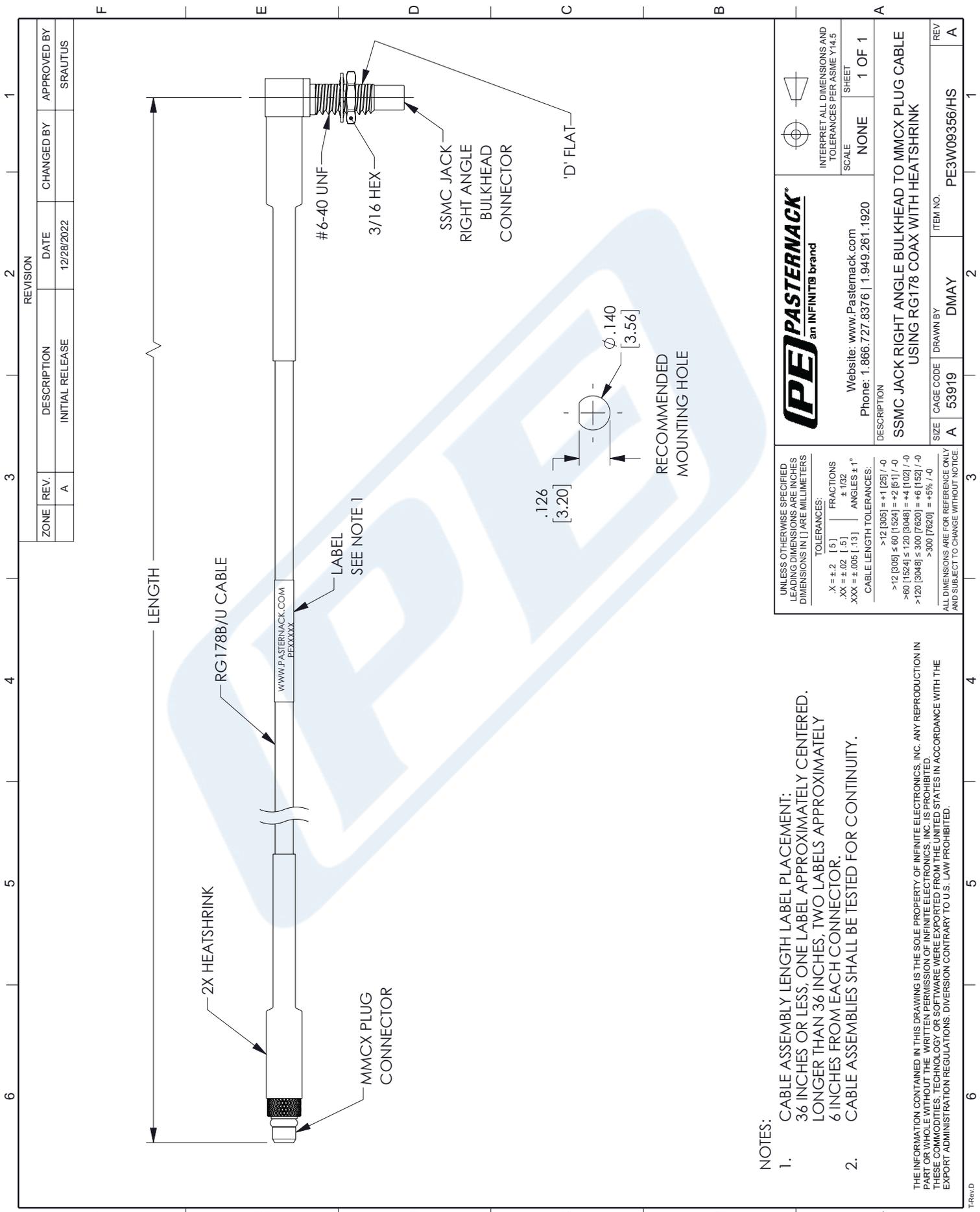
URL:

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PE3W09356/HS CAD Drawing

SSMC Jack Right Angle Bulkhead to MMCX Plug Cable

Using RG178B/U Coax with HeatShrink



NOTES:

- CABLE ASSEMBLY LENGTH LABEL PLACEMENT:
36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED.
LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY
6 INCHES FROM EACH CONNECTOR.
CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
X = ±.2 [5]	FRACTIONS ± 1/32
.XX = ±.02 [-.5]	ANGLES ± 1°
XXX = ±.005 [-.13]	CABLE LENGTH TOLERANCES:
	>12 [305] = +1 [25] / -0
	>60 [1524] = +2 [51] / -0
	>120 [3048] = +4 [102] / -0
	>300 [7620] = +6 [152] / -0
	>900 [22800] = +5% / -0
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.	



Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION
SSMC JACK RIGHT ANGLE BULKHEAD TO MMCX PLUG CABLE USING RG178 COAX WITH HEATSHRINK

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	SHEET
SCALE	1 OF 1
NONE	

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	DMAY	PE3W09356/HS
REV	A		

REVISION			
ZONE	REV.	DESCRIPTION	DATE
	A	INITIAL RELEASE	12/28/2022

CHANGED BY	APPROVED BY
	SRAUTUS