



MMCX Plug Right Angle to MMCX Plug Cable Using PE-P047 Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

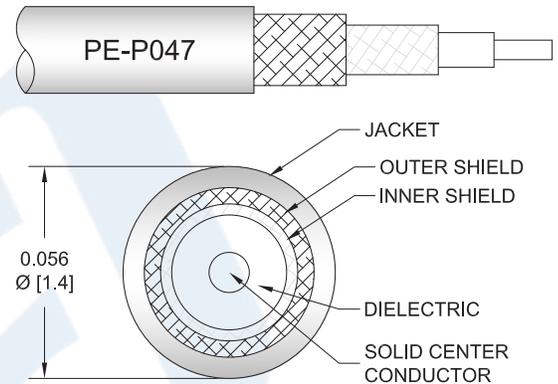
PE3C2231/HS

Configuration

- Connector 1: MMCX Plug Right Angle
- Connector 2: MMCX Plug
- Cable Type: PE-P047

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C2231/HS MMCX plug right angle to MMCX plug cable using PE-P047 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 MMCX to MMCX cable assembly has a plug to plug gender configuration with 50 ohm flexible PE-P047 coax. The PE3C2231/HS MMCX plug to MMCX plug cable assembly operates to 6 GHz. The right angle MMCX interface on the PE-P047 cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

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: [MMCX Plug Right Angle to MMCX Plug Cable Using PE-P047 Coax with HeatShrink PE3C2231/HS](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
Velocity of Propagation		70		%
RF Shielding	90			dB
Capacitance		29 [95.14]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	6	GHz
Insertion Loss (Typ.)	0.223	0.261	0.374	0.539	0.869	dB/ft
	0.73	0.86	1.23	1.77	2.85	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the MMCX Right Angle connector and 0.2 dB for the MMCX Straight connector.

Mechanical Specifications

Cable Assembly

Weight 0.044 lbs [19.96 g]

Cable

Cable Type PE-P047
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper, Silver
 Dielectric Type FEP
 Number of Shields 2
 Shield Layer 1 Silver Plated Copper Tape
 Shield Layer 2 Silver Plated Copper Braid
 Jacket Material FEP, Blue
 Jacket Diameter 0.056 in [1.42 mm]

One Time Minimum Bend Radius 0.2 in [5.08 mm]
 Repeated Minimum Bend Radius 0.4 in [10.16 mm]

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Connectors

Description	Connector 1	Connector 2
Type	MMCX Plug Right Angle	MMCX Plug
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Gold

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

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

Plotted and Other Data

Notes:

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PE3C2231/HS

How to Order

Part Number Configuration:

PE3C2231/HS - xx uu

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

Example: PE3C2231/HS-12 = 12 inches long cable
PE3C2231/HS-100cm = 100 cm long cable

MMCX Plug Right Angle to MMCX Plug Cable Using PE-P047 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.

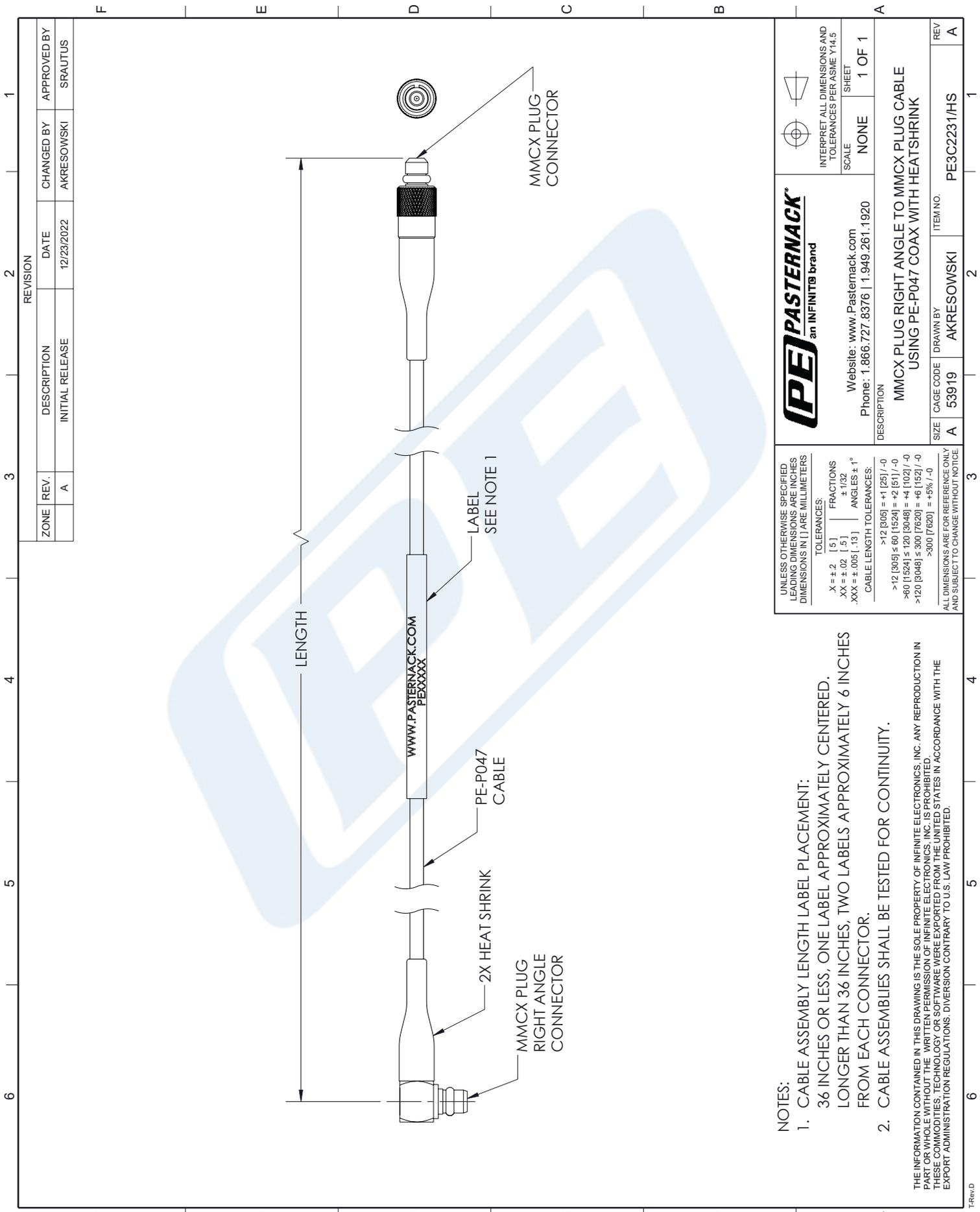
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URL: <https://www.pasternack.com/mmcx-plug-right-angle-to-mmcx-plug-cable-using-pe-p047-with-heatshrink-pe3c2231-hs-p.aspx>

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PE3C2231/HS CAD Drawing

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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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