MMCX Plug to SMC Plug Cable Using RG188-DS Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet   PE3W08449/HS
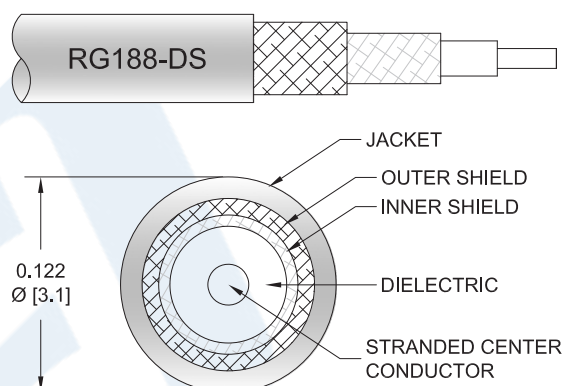
Configuration

- Connector 1: MMCX Plug
- Connector 2: SMC Plug
- Cable Type: RG188-DS

Features

- Max Frequency 6 GHz
- Double Shielded
- PTFE Jacket

RG188-DS

JACKET
OUTER SHIELD
INNER SHIELD

0.122
Ø [3.1]

DIELECTRIC

STRANDED CENTER CONDUCTOR

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W08449/HS MMCX plug to SMC plug cable using RG188-DS 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 SMC cable assembly has a plug to plug gender configuration with 50 ohm flexible RG188-DS coax. The PE3W08449/HS MMCX plug to SMC plug cable assembly operates to 6 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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 to SMC Plug Cable Using RG188-DS Coax with HeatShrink PE3W08449/HS

RF Cable Assemblies Technical Data Sheet

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Capacitance		32 [104.99]		pF/ft [pF/m]
Dielectric Withstanding Voltage (AC)			500	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	6	GHz
Insertion Loss (Typ.)	0.14	0.19	0.3	0.48	0.89	dB/ft
	0.46	0.62	0.98	1.57	2.92	dB/m

Electrical Specification Notes:
Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight   0.027 lbs [12.25 g]

Cable

Cable Type   RG188-DS
Impedance   50 Ohms
Inner Conductor Type   Stranded
Inner Conductor Material and Plating   Copper Clad Steel, Silver
Dielectric Type   PTFE
Number of Shields   2
Shield Layer 1   Silver Plated Copper Braid
Shield Layer 2   Silver Plated Copper Braid
Jacket Material   PTFE, White
Jacket Diameter   0.118 in [3 mm]

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Connectors

Description	Connector 1	Connector 2
Type	MMCX Plug	SMC Plug
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	30µ in. minimum	30µ in. minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Gold	Brass, Nickel
Body Plating Specification	3µ in. minimum	100µ in. minimum
Hex Size		1/4 in

Environmental Specifications
Temperature
Operating Range   -55 to +155 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data
Notes:

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PE3W08449/HS REV 1.0

MMCX Plug to SMC Plug Cable Using RG188-DS Coax with HeatShrink

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How to Order

Part Number Configuration: **PE3W08449/HS** - **xx** **uu**

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

Example: PE3W08449/HS-12 = 12 inches long cable
PE3W08449/HS-100cm = 100 cm long cable

MMCX Plug to SMC Plug Cable Using RG188-DS 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: MMCX Plug to SMC Plug Cable Using RG188-DS Coax with HeatShrink PE3W08449/HS

URL: https://www.pasternack.com/mmcx-plug-to-smc-plug-cable-using-rg188-ds-with-heatshrink-pe3w08449-hs-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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com

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PE3W08449/HS CAD Drawing
MMCX Plug to SMC Plug Cable Using RG188-DS Coax with HeatShrink

1/4 HEX

SMC PLUG CONNECTOR

LENGTH

RG188-DS CABLE

WWW.PASTERNACK.COM
PEXXXXXX

LABEL SEE NOTE 1

2X HEAT SHRINK

MMCX PLUG CONNECTOR

NOTES:
1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCH OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCH, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

REVISION					
ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	02/06/2023	SREITER	AGANWANI

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:
		FRACTIONS
.X = ±.2	[.5]	± 1/32
.XX = ±.02	[.5]	ANGLES ±1°
.XXX = ±.005	[.13]	

CABLE LENGTH TOLERANCES:
≤12 [305] = +1 [25] / -0
>12 [305] ≤ 60 [1524] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE NONE
SHEET 1 OF 1

PE3W08449/HS
REV A

PASTERNACK®
an INFINITE brand

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

DESCRIPTION
MMCX PLUG TO SMC PLUG CABLE USING RG188-DS COAX WITH HEATSHRINK

SIZE A	CAGE CODE 53919	DRAWN BY SREITER	ITEM NO. PE3W08449/HS	REV A

T-Rev.D2

PE3W08449/HS REV 1.0