



SMC Plug to SMB Plug Right Angle Cable Using RG178 Coax with Double HeatShrink

RF Cable Assemblies Technical Data Sheet

PE3W12598/HS2

Configuration

- Connector 1: SMC Plug
- Connector 2: SMB Plug Right Angle
- Cable Type: RG178

Features

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

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W12598/HS2 SMC plug to SMB plug right angle 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 SMC to SMB cable assembly has a plug to plug gender configuration with 50 ohm flexible RG178 coax. The PE3W12598/HS2 SMC plug to SMB plug cable assembly operates to 3 GHz. The right angle SMB interface on the RG178 cable allows for easier connections in tight spaces.

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: [SMC Plug to SMB Plug Right Angle Cable Using RG178 Coax with Double HeatShrink PE3W12598/HS2](#)



SMC Plug to SMB Plug Right Angle Cable Using RG178 Coax with Double HeatShrink

RF Cable Assemblies Technical Data Sheet

PE3W12598/HS2

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]
Operating Voltage (AC)			250	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.13	0.2	0.3	0.44	0.78	dB/ft
	0.43	0.66	0.98	1.44	2.56	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

Weight 0.022 lbs [9.98 g]

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]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMC Plug to SMB Plug Right Angle Cable Using RG178 Coax with Double HeatShrink PE3W12598/HS2](#)



SMC Plug to SMB Plug Right Angle Cable Using RG178 Coax with Double HeatShrink

RF Cable Assemblies Technical Data Sheet

PE3W12598/HS2

Connectors

Description	Connector 1	Connector 2
Type	SMC Plug	SMB Plug Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	1/4 inch	

Environmental Specifications

Temperature

Operating Range -55 to +165 deg C

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

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMC Plug to SMB Plug Right Angle Cable Using RG178 Coax with Double HeatShrink PE3W12598/HS2](#)



SMC Plug to SMB Plug Right Angle Cable Using RG178 Coax with Double HeatShrink

RF Cable Assemblies Technical Data Sheet

PE3W12598/HS2

How to Order

Part Number Configuration:

PE3W12598/HS2

- **xx**

uu

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

Example: PE3W12598/HS2-12 = 12 inches long cable
PE3W12598/HS2-100cm = 100 cm long cable

SMC Plug to SMB Plug Right Angle Cable Using RG178 Coax with Double 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: [SMC Plug to SMB Plug Right Angle Cable Using RG178 Coax with Double HeatShrink PE3W12598/HS2](https://www.pasternack.com/smc-plug-to-smb-plug-right-angle-cable-using-rg178-with-double-heatshrink-pe3w12598-hs2-p.aspx)

URL: <https://www.pasternack.com/smc-plug-to-smb-plug-cable-using-rg178-with-double-heatshrink-pe3w12598-hs2-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.

PE3W12598/HS2 CAD Drawing

SMC Plug to SMB Plug Right Angle Cable Using RG178 Coax with Double HeatShrink

