

Smooth Bore Mini SMP Male to Smooth Bore Mini SMP Male VITA 67.3 Cable Using PE-P086HF Coax

PE3C10558

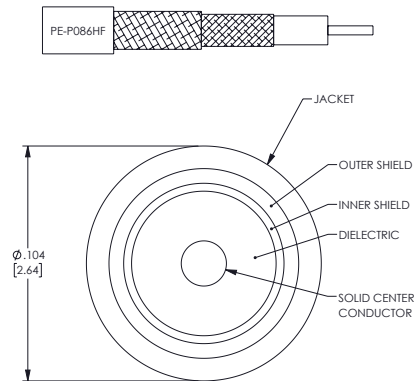


Configuration

- Connector 1: Smooth Bore Mini SMP Male
- Connector 2: Smooth Bore Mini SMP Male
- Cable Type: PE-P086HF
- Coax Flex Type: Flexible

Features

- Max Frequency 40 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C10558 Mini SMP male smooth bore to Mini SMP male smooth bore cable using PE-P086HF 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 Mini SMP to Mini SMP cable assembly has a male to male gender configuration with 50 ohm flexible PE-P086HF coax. The PE3C10558 Mini SMP male to Mini SMP male cable assembly operates to 40 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	2500	5000	10000	20000	40000	MHz	
PE3C10558	Custom Lengths Available	Insertion Loss (Typ.)	0.312	0.457	0.675	1.005	1.54	dB/ft	
			1.03	1.5	2.22	3.3	5.06	dB/m	
PE3C10558-6	6 In	Insertion Loss (Typ.)	0.36	0.43	0.54	0.71	0.97	dB	0.011
PE3C10558-9	9 In	Insertion Loss (Typ.)	0.44	0.55	0.71	0.96	1.36	dB	0.014
PE3C10558-12	12 In	Insertion Loss (Typ.)	0.52	0.66	0.88	1.21	1.74	dB	0.017
PE3C10558-18	18 In	Insertion Loss (Typ.)	0.67	0.89	1.22	1.71	2.51	dB	0.024
PE3C10558-24	24 In	Insertion Loss (Typ.)	0.83	1.12	1.55	2.21	3.28	dB	0.03

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.0168 pounds
Additional Weight per Inch:	0.00109 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.017 lbs [7.71 g]

Cable

Cable Type	PE-P086HF
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Tape
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Blue
Jacket Diameter	0.104 in [2.64 mm]
One Time Minimum Bend Radius	0.52 in [13.21 mm]

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Connectors

Description	Connector 1	Connector 2
Type	Mini SMP Male	Mini SMP Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Connection Method	Smooth Bore	Smooth Bore
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

Environmental Specifications

Operating Range Temperature -55 to +165 deg C

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

Plotted and Other Data

Notes:

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PE3C10558

Typical Performance Data

How to Order

Part Number Configuration:

PE3C10558

- xx

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Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE3C10558-12 = 12 inches long cable
PE3C10558-100cm = 100 cm long cable

Smooth Bore Mini SMP Male to Smooth Bore Mini SMP Male VITA 67.3 Cable Using PE-P086HF Coax 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: [Smooth Bore Mini SMP Male to Smooth Bore Mini SMP Male VITA 67.3 Cable Using PE-P086HF Coax PE3C10558](#)

URL: <https://www.pasternack.com/smooth-bore-mini-smp-male-to-smooth-bore-mini-smp-male-vita-67.3-cable-using-pe-p086hf-pe3c10558-p.aspx>

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