PASTERNACK
an INFINITe brand

SMA Male to Reverse Polarity SMA Female Cable
Using RG142 Coax with HeatShrink in 50CM

## RF Cable Assemblies Technical Data Sheet

Configuration
- Connector 1: SMA Male
- Connector 2: SMA Female Reverse Polarity
- Cable Type: RG142

Features
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

RG142B/U

JACKET
OUTER SHIELD
INNER SHIELD

0.195
Ø [5.0]

DIELECTRIC

SOLID CENTER
CONDUCTOR
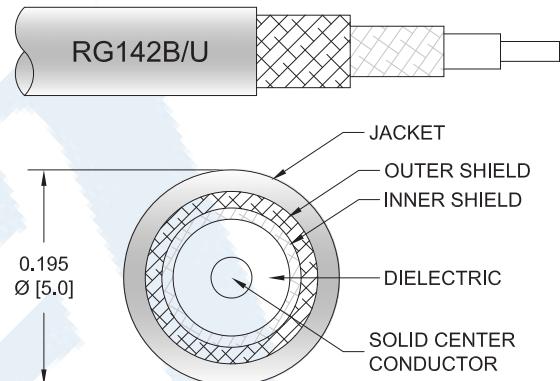
Applications
- General Purpose
- Laboratory Use

Description

Pasternack's PE3C3868/HS-50CM SMA male to reverse polarity SMA female 19.685 inch cable using RG142 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 SMA to reverse polarity SMA cable assembly has a male to female gender configuration with 50 ohm flexible RG142 coax. 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
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]

Mechanical Specifications

Cable Assembly

Length*	19.685 in [500 mm]
Weight	0.054 lbs [24.49 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male to Reverse Polarity SMA Female Cable Using RG142 Coax with HeatShrink in 50CM PE3C3868/HS-50CM

SMA Male to Reverse Polarity SMA Female Cable Using RG142 Coax with HeatShrink in 50CM

RF Cable Assemblies Technical Data Sheet　　　　　PE3C3868/HS-50CM

Cable

Cable Type	RG142
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 Braid
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.195 in [4.95 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female Reverse Polarity
Specification	MIL-STD-348A	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Gold
Contact Plating Specification	50 µin minimum	MIL-G-45204
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	QQ-N-290
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	5/16 inch	
Torque	3 in-lbs [0.34 Nm]	

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: SMA Male to Reverse Polarity SMA Female Cable Using RG142 Coax with HeatShrink in 50CM PE3C3868/HS-50CM

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How to Order

Part Number Configuration: **PE3C3868/HS** - xx   uu

Unit of Measure:
  cm = Centimeters
  <blank> = Inches
Length
Base Number
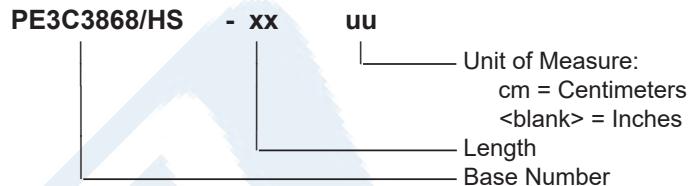
Example: PE3C3868/HS-12 = 12 inches long cable
             PE3C3868/HS-100cm = 100 cm long cable
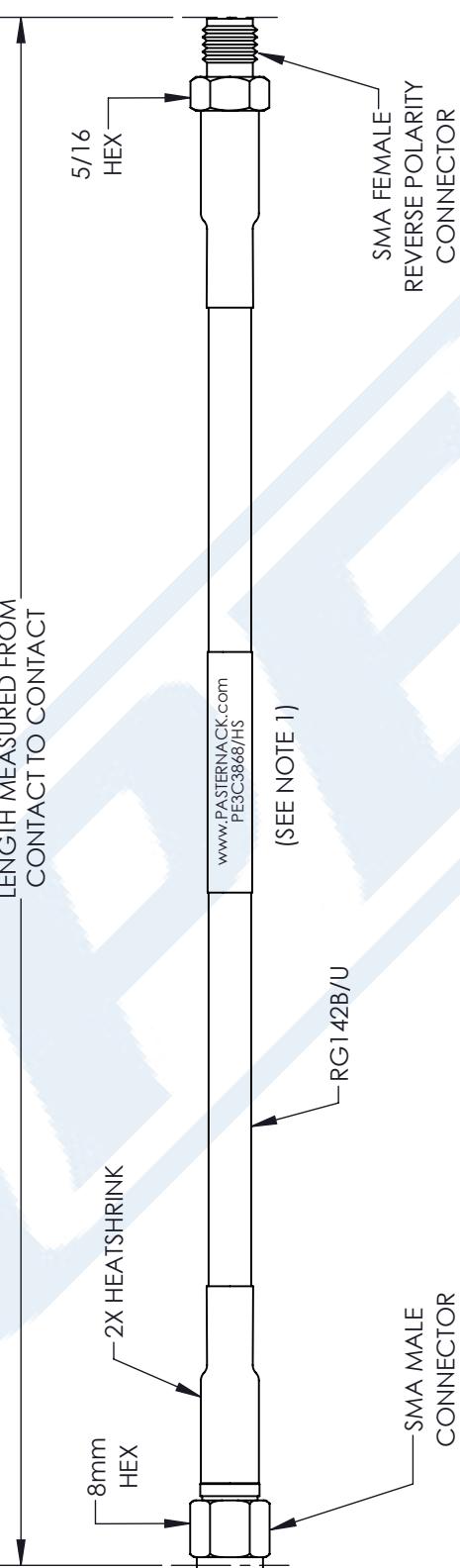
SMA Male to Reverse Polarity SMA Female Cable Using RG142 Coax with HeatShrink in 50CM from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male to Reverse Polarity SMA Female Cable Using RG142 Coax with HeatShrink in 50CM PE3C3868/HS-50CM

URL: https://www.pasternack.com/sma-male-to-reverse-polarity-sma-female-cable-using-rg142-with-heatshrink-pe3c3868-hs-50CM-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.

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PE3C3868/HS-50CM CAD Drawing

SMA Male to Reverse Polarity SMA Female Cable Using RG142 Coax with HeatShrink in 50CM

LENGTH MEASURED FROM CONTACT TO CONTACT

SMA FEMALE REVERSE POLARITY CONNECTOR

5/16 HEX

www.PASTERNACK.com
PE3C3868/HS

(SEE NOTE 1)

RG142B/U

2X HEATSHRINK

8mm HEX

SMA MALE CONNECTOR

NOTES:

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM END OF CONNECTOR

Revisions

REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	08/10/2022	AGANWANI

Title Block

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV A

PE PASTERNACK
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SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	BPUCHASKI	PE3C3868/HS

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

TOLERANCES:

.X = ± .2 [5.08]
.XX = ± .02 [.51]
.XXX = ± .005 [.13]

FRACTIONS ± 1/32
ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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T-Rev.D

PE3C3868/HS-50CM REV 1.0