



Smooth Bore SMP Male Bulkhead to SMP Female
Cable 50 cm Using PE-SR405AL Coax

RF Cable Assemblies Technical Data Sheet

PE3W08323-50CM

Configuration

- Connector 1: Smooth Bore SMP Male Bulkhead
- Connector 2: SMP Female
- Cable Type: PE-SR405AL

Features

- Max Frequency 18 GHz

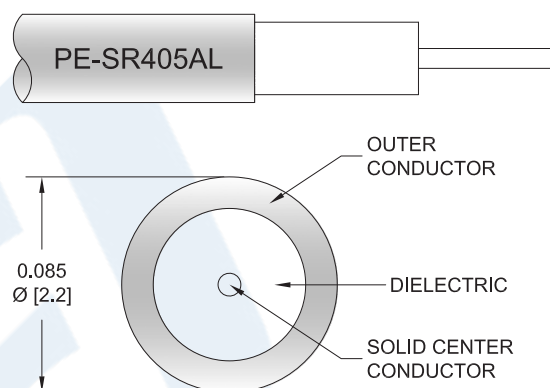
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W08323-50CM SMP male smooth bore bulkhead to SMP female 50 cm cable using PE-SR405AL coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack SMP to SMP cable assembly has a male to female gender configuration with 50 ohm semi-rigid PE-SR405AL coax. The PE3W08323-50CM SMP male to SMP female cable assembly operates to 18 GHz. Our RF cable assembly with SMP bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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: [Smooth Bore SMP Male Bulkhead to SMP Female Cable 50 cm Using PE-SR405AL Coax PE3W08323-50CM](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.4:1	

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.57	0.68	0.93	1.4	2.14	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss is estimated as 0.1 dB per SMP male bulkhead and SMP female connector.

Mechanical Specifications

Cable Assembly

Length*	19.68 in [499.87 mm]
Diameter	0.23 in [5.84 mm]

Cable

Cable Type	PE-SR405AL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Outer Conductor Material and Plating	Tinned Aluminum
One Time Minimum Bend Radius	0.05 in [1.27 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMP Male Bulkhead	SMP Female
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Connection Method	Smooth Bore	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-G-45204	MIL-G-45204
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Outer Conductor Plating Specification	MIL-G-45204	MIL-G-45204
Body Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Plating Specification	MIL-G-45204	MIL-G-45204

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

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

Plotted and Other Data

Notes:

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PE3W08323-50CM

How to Order

Part Number Configuration:

PE3W08323

- **xx**

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

Example: PE3W08323-12 = 12 inches long cable
PE3W08323-100cm = 100 cm long cable

Smooth Bore SMP Male Bulkhead to SMP Female Cable 50 cm Using PE-SR405AL 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.

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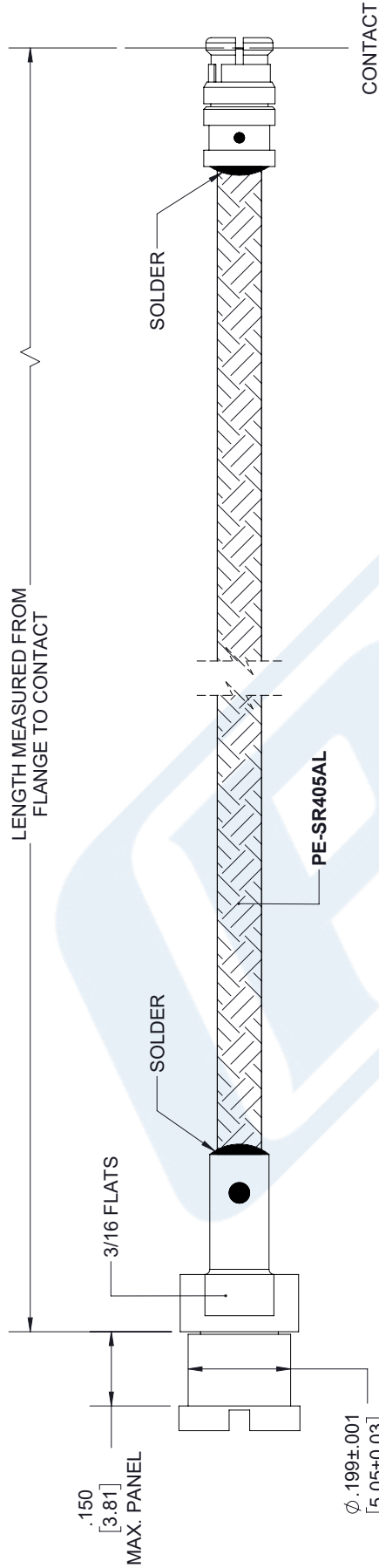
URL: <https://www.pasternack.com/smp-male-smp-female-pe-sr405al-cable-assembly-pe3w08323-50cm-p.aspx>

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.

PE3W08323-50CM CAD Drawing

Smooth Bore SMP Male Bulkhead to SMP Female Cable 50 cm Using PE-SR405AL Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	1/23/2020	S.ELLIS



SMP SMOOTH BORE MALE
BULKHEAD MOUNT

SMP FEMALE

MOUNTING HOLE

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

TOLERANCES:

.X = ± .2 [5.08] FRACTIONS
.XX = ± .02 [.51] ± 1/32
.XXX = ± .005 [.13] 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% / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

PE PASTERNAK
an INFINITI brand

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SIZE CAGE CODE DRAWN BY ITEM NO.

A 53919 K.DANG PE3W08323

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

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