SMA Male to SMA Female Cable 100 cm Using RG405 Coax , LF Solder

RF Cable Assemblies Technical Data Sheet

PE3W08650LF-100CM

Configuration
- Connector 1: SMA Male
- Connector 2: SMA Female
- Cable Type: RG405

Features
- Max Frequency 18 GHz
- Shielding Effectivity > -110 dB
- 69.5% Phase Velocity

Applications
- General Purpose
- Laboratory Use

Description

Pasternack's PE3W08650LF-100CM SMA male to SMA female 100 cm cable using RG405 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 SMA to SMA cable assembly has a male to female gender configuration with 50 ohm semi-rigid RG405 coax. The PE3W08650LF-100CM SMA male to SMA female cable assembly operates to 18 GHz.

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		18	GHz
VSWR			1.5:1	
Velocity of Propagation		69.5		%
RF Shielding	-110			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.93	1.14	1.67	2.62	3.88	dB

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 SMA Female Cable 100 cm Using RG405 Coax , LF Solder PE3W08650LF-100CM

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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 SMA male and SMA female connector.

Mechanical Specifications

Cable Assembly
Length*   39.37 in [100 cm]
Diameter   0.315 in [8 mm]

Cable
Cable Type   RG405
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   Copper

Repeated Minimum Bend Radius   0.05 in [1.27 mm]

Connectors

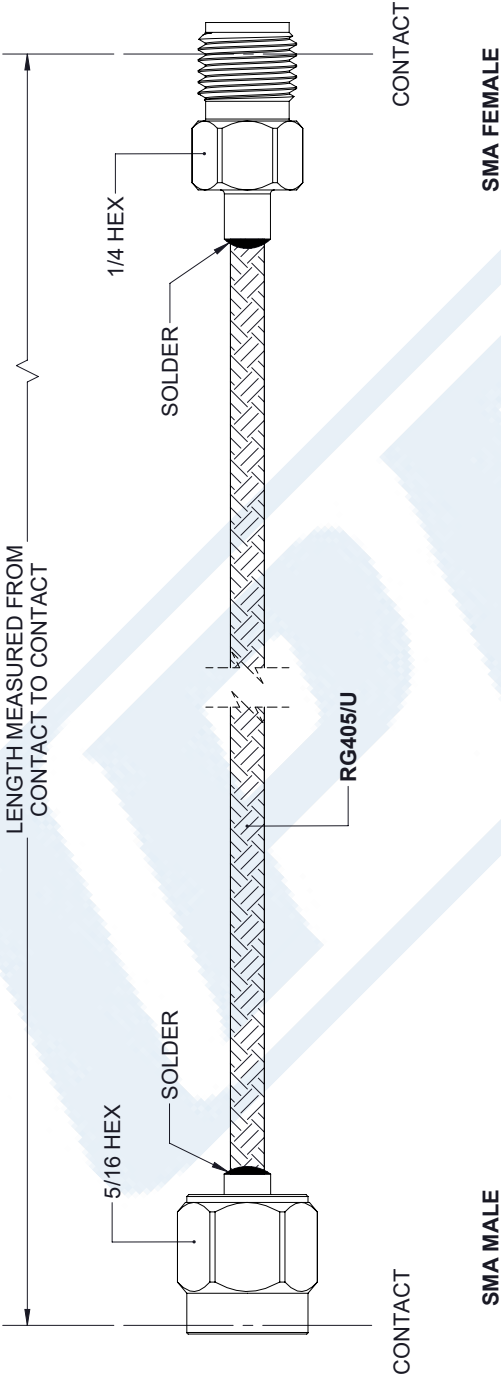| Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Specification	MIL-STD-348A	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Gold
Contact Plating Specification	50µ in. minimum	MIL-G-45204
Dielectric Type	Teflon	PTFE
Outer Conductor Material and Plating	Brass, Gold	Stainless Steel, Gold
Outer Conductor Plating Specification	3µ in. minimum	MIL-G-45204
Body Material and Plating	Brass, Gold	Stainless Steel, Gold
Body Plating Specification	3µ in. minimum	MIL-G-45204
Coupling Nut Material and Plating	Brass, Gold	
Coupling Nut Plating Specification	3µ in. minimum	
Hex Size	5/16 Inch	
Torque	3 in-lbs [0.34 Nm]	
Seal Gasket Material	Silicone	

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Environmental Specifications
Temperature
Operating Range   -55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data
Notes:

How to Order

Part Number Configuration: **PE3W08650LF   - xx   uu**

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

Example: PE3W08650LF-12 = 12 inches long cable
             PE3W08650LF-100cm = 100 cm long cable

SMA Male to SMA Female Cable 100 cm Using RG405 Coax , LF Solder 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 SMA Female Cable 100 cm Using RG405 Coax , LF Solder PE3W08650LF-100CM

URL: https://www.pasternack.com/sma-male-sma-female-rg405u-cable-assembly-pe3w08650lf-100cm-p.aspx

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PE3W08650LF-100CM CAD Drawing
SMA Male to SMA Female Cable 100 cm Using RG405 Coax , LF Solder

CONTACT

SMA FEMALE

1/4 HEX

SOLDER

LENGTH MEASURED FROM CONTACT TO CONTACT

RG405/U

SOLDER

5/16 HEX

SMA MALE

CONTACT

THIRD-ANGLE PROJECTION

SHEET 1 OF 1

SCALE N/A

REV A

ITEM NO. PE3W08650LF

PE **PASTERNACK**®
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SIZE	CAGE CODE	DRAWN BY
A	53919	K.DANG

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	1/29/2020	S.ELLIS

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