

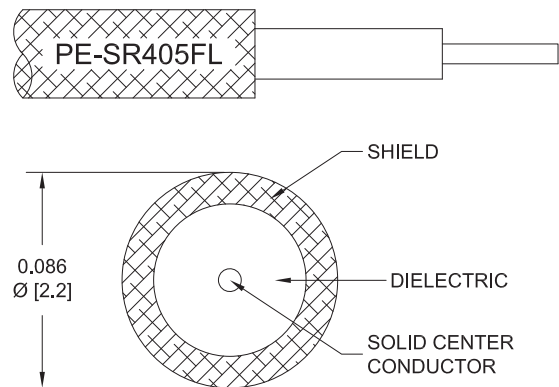
BMA Size 8 D38999 Contact Pin to BMA Size 8 D38999 Contact Pin Cable Using PE- SR405FL Coax with HeatShrink, LF Solder



PE3M0365

Configuration

- Connector 1: Push-on BMA Pin
- Connector 2: Push-on BMA Pin
- Cable Type: PE-SR405FL
- Coax Flex Type: Formable



Features

- Max Frequency: 20 GHz
- Can be installed in all D38999 size 8 inserts
- Lot traceability
- High speed RF cable assembly

Applications

- Military and Aerospace
- Avionics
- Industrial Automation

Description

The PE3M0365 from Pasternack is a D38999 contact cable assembly that is built with a size 8 BMA pin contact connection on one end and a BMA pin connector on the other. Pasternack MIL-DTL-38999 (also known as D38999 or 38999) coaxial cable assembly products are used in applications requiring high quality such as laboratory RF test and measurement, rugged and designed for defense/military, production environments, general use, etc. This high frequency D38999 cable assembly operates at a maximum frequency of 20 GHz.

This radio frequency cable assembly can withstand temperatures ranging from -65 to 165 degrees C. Our BMA pin to BMA pin cable has a maximum VSWR of 1.4:1. This RF cable assembly with a 0.5-inch diameter has copper clad steel as the cable's inner conducting material and PTFE dielectric type. The PE3M0365 between-series RF cable has 0.78 inches of repeated minimum bend radius.

BMA pin to BMA pin cable assembly is built with PE-SR405FL, which is a formable coax type. The Pasternack PE3M0365 formable cable assembly has a 50 Ohm impedance and is double shielded. Additional dimensions, specifications, and CAD drawings for this BMA to BMA RF cable are available on our downloadable PDF datasheet.

BMA pin to BMA pin cable assembly is just one of more than one million in-stock RF products available. Pasternack is where to buy high quality custom RF cable assembly products for rugged and MIL-STD designed military/defense, aerospace, outdoor and harsh environment, microwave and millimeter wave radio transmitter receiver, component inter-connection and more for RF test & measurement labs, telecom, phase stable, phase and delay matching, and other radio frequency applications can be manufactured. Variations of BMA cable assemblies can also be built and will ship on the same day as well, search this website or contact us for assistance. For further information on similar products, our expert technical support and trained sales team can get you the ideal BMA to BMA RF cable assembly as per your requirements.

Referenced Specifications

IPC J-STD-001

Requirements for Soldered Electrical and Electronic Assemblies

BMA Size 8 D38999 Contact Pin to BMA
Size 8 D38999 Contact Pin Cable Using PE-
SR405FL Coax with HeatShrink, LF Solder



PE3M0365

IPC J-STD-006	Requirements for Electronic Grade Solder Alloys and Fluxed and Non-Fluxed Solid Solders for Electronic Soldering Applications
IPC/WHMA-A-620	Requirements and Acceptance for Cable and Wire Harness Assemblies
MIL-DTL-17	Cables, Radio Frequency, Flexible and Semirigid, General Specification for
MIL-PRF-39012	Connectors, Coaxial, Radio Frequency, General Specification for
MIL-STD-348	Radio Frequency Connector Interfaces for MIL-DTL-3643, MIL-DTL-3650, MIL-DTL-3655, MIL-DTL-25516, MIL-PRF-31031, MIL-PRF-39012, MIL-PRF-49142, MIL-PRF-55339, MIL-DTL-83517
SAE AS22520	Crimping Tools, Wire Termination, General Specification For
SAE AS23053	Insulation Sleeving, Electrical, Heat Shrinkable, General Specifications For
SAE AS5942	Marking of Electrical Insulating Materials
IPC J-STD-001	Requirements for Soldered Electrical and Electronic Assemblies

Material Specifications

Component	Specification
Cable	PE-SR405FL in accordance with PE-SR405FL datasheet
Connector 1	in accordance with MIL-DTL-38999
Connector 2	in accordance with MIL-DTL-38999
Heat Shrink 1	M23053/5-105-0 in accordance with SAE AS23053
Heat Shrink 2	M23053/5-105-0 in accordance with SAE AS23053
Solder	SAC305 in accordance with J-STD-006

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		20	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		65.7 [215.55]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		10.2 [33.46]		[Ω /Km]

Specifications by Frequency

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PE3M0365

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		1000	2000	4500	9000	
PE3M0365	Custom Lengths Available	Insertion Loss (Typ.)	0.23	0.31	0.51	0.76	1.2	dB/ft	
			0.74	1.01	1.67	2.5	3.94	dB/m	
PE3M0365-6	6 inch	Insertion Loss (Typ.)	0.32	0.36	0.46	0.58	0.8	dB	0.0255
PE3M0365-12	12 inch	Insertion Loss (Typ.)	0.43	0.51	0.71	0.96	1.4	dB	0.031
PE3M0365-24	24 inch	Insertion Loss (Typ.)	0.65	0.82	1.22	1.72	2.6	dB	0.042
PE3M0365-36	36 inch	Insertion Loss (Typ.)	0.88	1.12	1.73	2.48	3.8	dB	0.053
PE3M0365-48	48 inch	Insertion Loss (Typ.)	1.1	1.43	2.24	3.24	5	dB	0.064
PE3M0365-60	60 inch	Insertion Loss (Typ.)	1.33	1.73	2.74	4	6.2	dB	0.075

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:	0.031 pounds
Additional Weight per Foot:	0.011 pounds

Electrical Specification Notes:
Values at 25°C, sea level.

Mechanical Specifications

Cable Assembly

Description	Minimum	Typical	Maximum	Units
Length*			0 [0]	in [mm]
Weight		0.031 [14.06]		lbs [g]
Repeated Minimum Bend Radius	0.78			in

Cable Characteristics

Description	Specification
Cable Type	PE-SR405FL
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 1 Material and Plating	Copper, Tin

Connector Characteristics

Description	Connector 1	Connector 2
Type	BMA Pin	BMA Pin
Specification	MIL-DTL-38999	MIL-DTL-38999

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Connector Characteristics

Description	Connector 1	Connector 2
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Connection Method	Push-on	Push-on
Contact Size	8	8
Mating Cycles	5,000	5,000
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Stainless Steel, Gold	Stainless Steel, Gold
Body Material and Plating	Stainless Steel, Gold	Stainless Steel, Gold

Mechanical Specification Notes:

Environmental Specifications

Description	Specification
Temperature Operating Range	-65 to +165 deg C

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

Plotted and Other Data

Notes:

Values at 25°C, sea level.

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PE3M0365

How to Order

Part Number Configuration:

PE3M0365

- **xx**

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

Example: PE3M0365-12 = 12 inches long cable
PE3M0365-100cm = 100 cm long cable

Cable Assembly Length Tolerances:

Imperial English		Metric	
"L" ≤ 1 ft	+0.5 in / -0 in	"L" ≤ 0.3 m	+12.5 mm / -0 mm
1 ft < "L" ≤ 5 ft	+1 in / -0 in	0.3 m < "L" ≤ 1.5 m	+25 mm / -0 mm
5 ft < "L" ≤ 10 ft	+2 in / -0 in	1.5 m < "L" ≤ 3 m	+50 mm / -0 mm
10 ft < "L" ≤ 25 ft	+3 in / -0 in	3 m < "L" ≤ 7.5 m	+75 mm / -0 mm
25 ft < "L"	+2%"L" / -0%"L"	7.5 m < "L"	+2%"L" / -0%"L"

* Cable Length = "L"

BMA Size 8 D38999 Contact Pin to BMA Size 8 D38999 Contact Pin Cable Using PE-SR405FL Coax with HeatShrink, 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.

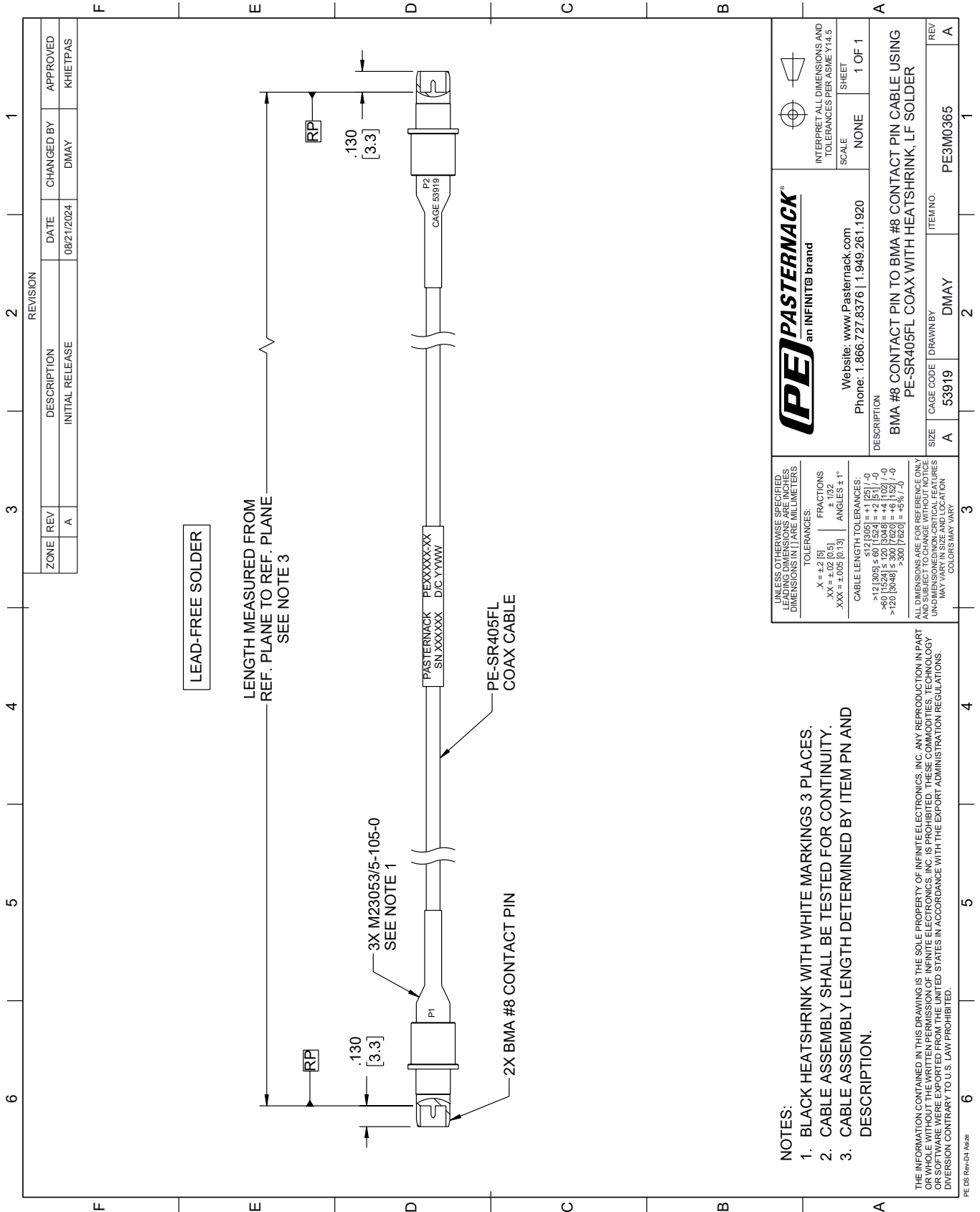
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BMA Size 8 D38999 Contact Pin to BMA Size 8 D38999 Contact Pin Cable Using PE-SR405FL Coax with HeatShrink, LF Solder PE3M0365](#)

URL: <https://www.pasternack.com/bma-8-contact-pin-to-bma-8-contact-pin-cable-using-pe-sr405fl-coax-with-heatshrink-lf-solder-pe3m0365-p.aspx>

The information contained within 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 impliment improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3M0365 CAD Drawing

BMA Size 8 D38999 Contact Pin to BMA Size 8 D38999 Contact Pin Cable
Using PE-SR405FL Coax with HeatShrink, LF Solder



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	A	08/21/2024	DMAY	KHETTPAS
DESCRIPTION				
INITIAL RELEASE				

LEAD-FREE SOLDER

LENGTH MEASURED FROM REF. PLANE TO REF. PLANE SEE NOTE 3

3X M23053/5-105-0 SEE NOTE 1

2X BMA #8 CONTACT PIN

PE-SR405FL COAX CABLE

- NOTES:
1. BLACK HEATSHRINK WITH WHITE MARKINGS 3 PLACES.
 2. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
 3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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<p>PASTERNAK an INFINITe brand</p>	<p>Website: www.Pasternack.com</p> <p>Phone: 1.866.727.8376 1.949.261.1920</p>	<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p>
	<p>DESCRIPTION</p> <p>BMA #8 CONTACT PIN TO BMA #8 CONTACT PIN CABLE USING PE-SR405FL COAX WITH HEATSHRINK, LF SOLDER</p>	<p>SIZE: A</p> <p>CAGE CODE: 53919</p> <p>DRAWN BY: DMAY</p> <p>ITEM NO.: PE3M0365</p>

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

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]

FRACTIONS:
 ± 1/32
 ANGLES ± 1°

CABLE LENGTH TOLERANCES:
 <12 [305] ≤ 60 [1524] = ±.1 [25] / -0
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
 >120 [3048] ≤ 300 [7620] = ±.6 [15] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.