

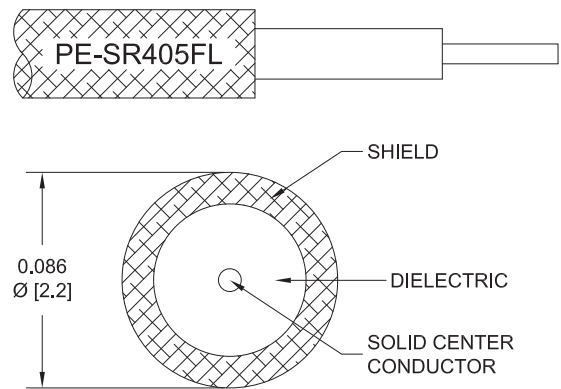
BMZ Size 8 D38999 Contact Pin to BMZ Size 8 D38999 Contact Pin (18 GHz) Cable Using PE-SR405FL Coax with HeatShrink, LF Solder



PE3M0371

Configuration

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



Features

- Max Frequency: 18 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 PE3M0371 from Pasternack is a D38999 contact cable assembly that is built with a size 8 BMZ pin contact connection on one end and a BMZ 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 18 GHz.

This radio frequency cable assembly can withstand temperatures ranging from -65 to 165 degrees C. Our BMZ pin to BMZ 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 PE3M0371 between-series RF cable has 0.78 inches of repeated minimum bend radius.

BMZ pin to BMZ pin cable assembly is built with PE-SR405FL, which is a formable coax type. The Pasternack PE3M0371 formable cable assembly has a 50 Ohm impedance and is double shielded. Additional dimensions, specifications, and CAD drawings for this BMZ to BMZ RF cable are available on our downloadable PDF datasheet.

BMZ pin to BMZ 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 BMZ 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 BMZ to BMZ RF cable assembly as per your requirements.

Referenced Specifications

IPC J-STD-001 Requirements for Soldered Electrical and Electronic Assemblies

BMZ Size 8 D38999 Contact Pin to BMZ Size 8 D38999 Contact Pin (18 GHz) Cable Using PE-SR405FL Coax with HeatShrink, LF Solder



PE3M0371

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		18	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

BMZ Size 8 D38999 Contact Pin to BMZ Size 8 D38999 Contact Pin (18 GHz) Cable Using PE-SR405FL Coax with HeatShrink, LF Solder



PE3M0371

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		1000	2000	4500	9000	
PE3M0371	Custom Lengths Available	Insertion Loss (Typ.)	0.23	0.31	0.51	0.76	1.122	dB/ft	
			0.74	1.01	1.67	2.5	3.69	dB/m	
PE3M0371-6	6 inch	Insertion Loss (Typ.)	0.32	0.36	0.46	0.58	0.77	dB	0.0255
PE3M0371-12	12 inch	Insertion Loss (Typ.)	0.43	0.51	0.71	0.96	1.33	dB	0.031
PE3M0371-24	24 inch	Insertion Loss (Typ.)	0.65	0.82	1.22	1.72	2.45	dB	0.042
PE3M0371-36	36 inch	Insertion Loss (Typ.)	0.88	1.12	1.73	2.48	3.57	dB	0.053
PE3M0371-48	48 inch	Insertion Loss (Typ.)	1.1	1.43	2.24	3.24	4.69	dB	0.064
PE3M0371-60	60 inch	Insertion Loss (Typ.)	1.33	1.73	2.74	4	5.81	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	BMZ Pin	BMZ Pin
Specification	MIL-DTL-38999	MIL-DTL-38999

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PE3M0371

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	1,000	1,000
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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PE3M0371

How to Order

Part Number Configuration:

PE3M0371 - xx uu



Example: PE3M0371-12 = 12 inches long cable
PE3M0371-100cm = 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"

BMZ Size 8 D38999 Contact Pin to BMZ Size 8 D38999 Contact Pin (18 GHz) 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: [BMZ Size 8 D38999 Contact Pin to BMZ Size 8 D38999 Contact Pin \(18 GHz\) Cable Using PE-SR405FL Coax with HeatShrink, LF Solder PE3M0371](https://www.pasternack.com/bmz-8-contact-pin-to-bmz-8-contact-pin-18-ghz-cable-using-pe-sr405fl-coax-with-heatshrink-lf-solder-pe3m0371-p.aspx)

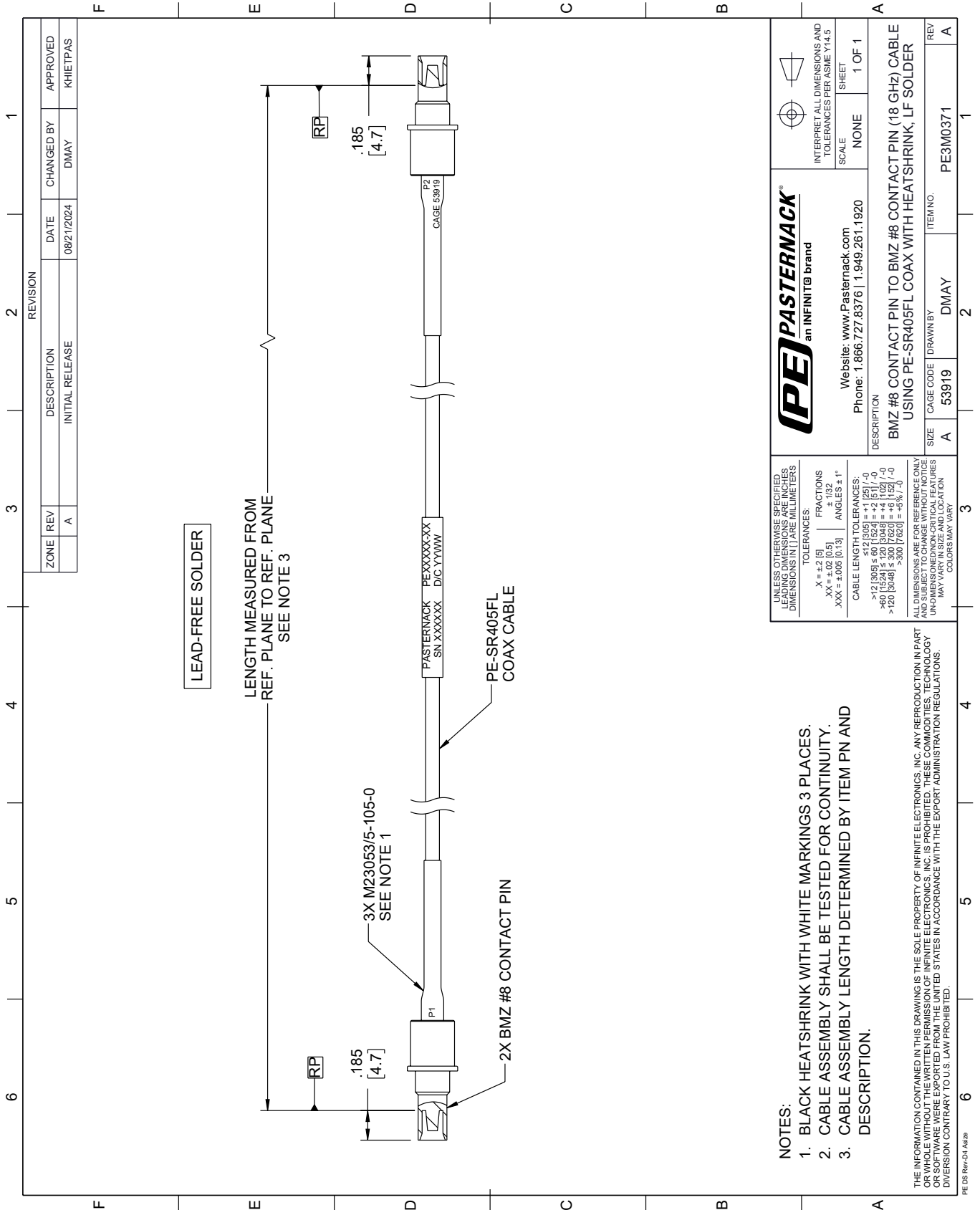
URL: <https://www.pasternack.com/bmz-8-contact-pin-to-bmz-8-contact-pin-18-ghz-cable-using-pe-sr405fl-coax-with-heatshrink-lf-solder-pe3m0371-p.aspx>

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PE3M0371 CAD Drawing

BMZ Size 8 D38999 Contact Pin to BMZ Size 8 D38999 Contact Pin (18 GHz)

Cable Using PE-SR405FL Coax with HeatShrink, LF Solder



- 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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PE DS Rev-D4 Asst

		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1	
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		DESCRIPTION: BMZ #8 CONTACT PIN TO BMZ #8 CONTACT PIN (18 GHz) CABLE USING PE-SR405FL COAX WITH HEATSHRINK, LF SOLDER	
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: $+12 [305] \le 60 [1524] \le +1 [25] / -0$ $+6 [1524] \le 120 [3048] \le +4 [102] / -0$ $+300 [7620] \le 300 [7620] \le +5 [127] / -0$
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		SIZE: A CAGE CODE: 53919 DRAWN BY: DMAY	ITEM NO.: PE3M0371 REV: A