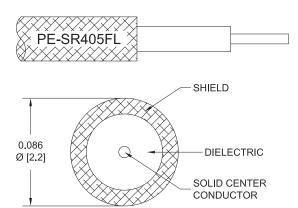


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PE3M0377

Configuration

- Connector 1: Push-on M39029 Pin
- Connector 2: Push-on M39029 Pin
- Cable Type: PE-SR405FL
- · Coax Flex Type: Formable



Features

- Max Frequency: 3 GHz
- · Can be installed in all D38999 size 12 inserts

Applications

- · Military and Aerospace
- Avionics

- Lot traceability
- · High speed RF cable assembly
- · Industrial Automation

Description

The PE3M0377 from Pasternack is a D38999 contact cable assembly that is built with a size 12 M39029 pin contact connection on one end and a M39029 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 3 GHz.

This radio frequency cable assembly can withstand temperatures ranging from -65 to 125 degrees C. Our M39029 pin to M39029 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 PE3M0377 between-series RF cable has 0.78 inches of repeated minimum bend radius.

M39029 pin to M39029 pin cable assembly is built with PE-SR405FL, which is a formable coax type. The Pasternack PE3M0377 formable cable assembly has a 50 Ohm impedance and is double shielded. Additional dimensions, specifications, and CAD drawings for this M39029 to M39029 RF cable are available on our downloadable PDF datasheet.

M39029 pin to M39029 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 M39029 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 M39029 to M39029 RF cable assembly as per your requirements.

Referenced Specifications

IPC J-STD-001

Requirements for Soldered Electrical and Electronic Assemblies





PE3M0377

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		3	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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PE3M0377

Part Number	Length Description		F1	F2	F3	F4	F5	Units	Weight (lbs)
Fait Nullibel	Lengui	Frequency	100	250	500	1000	3000	MHz	weight (ibs)
PE3M0377	Custom Lengths	Insertion Loss (Typ.)	0.03	0.08	0.15	0.23	0.387	dB/ft	
FESIVIUS//	Available	ilisertion Loss (Typ.)	0.1	0.25	0.5	0.74	1.27	dB/m	
PE3M0377-6	6 inch	Insertion Loss (Typ.)	0.22	0.24	0.28	0.32	0.4	dB	0.0255
PE3M0377-12	12 inch	Insertion Loss (Typ.)	0.23	0.28	0.35	0.43	0.59	dB	0.031
PE3M0377-24	24 inch	Insertion Loss (Typ.)	0.26	0.35	0.5	0.65	0.98	dB	0.042
PE3M0377-36	36 inch	Insertion Loss (Typ.)	0.29	0.43	0.65	0.88	1.37	dB	0.053
PE3M0377-48	48 inch	Insertion Loss (Typ.)	0.32	0.5	0.8	1.1	1.75	dB	0.064
PE3M0377-60	60 inch	Insertion Loss (Typ.)	0.35	0.58	0.95	1.33	2.14	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
Туре	M39029 Pin	M39029 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	12	12
Mating Cycles	500	500
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Gold	Brass, Gold
Body Material and Plating	Brass, Gold	Brass, Gold

Mechanical Specification Notes:

Environmental Specifications

Description	Specification
Temperature Operating Range	-65 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

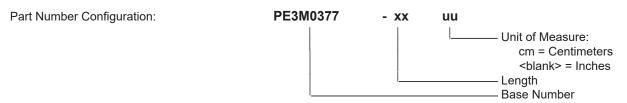
Values at 25°C, sea level.





PE3M0377

How to Order



Example: PE3M0377-12 = 12 inches long cable

PE3M0377-100cm = 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"

MIL Size 12 D38999 Contact Pin to MIL Size 12 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.

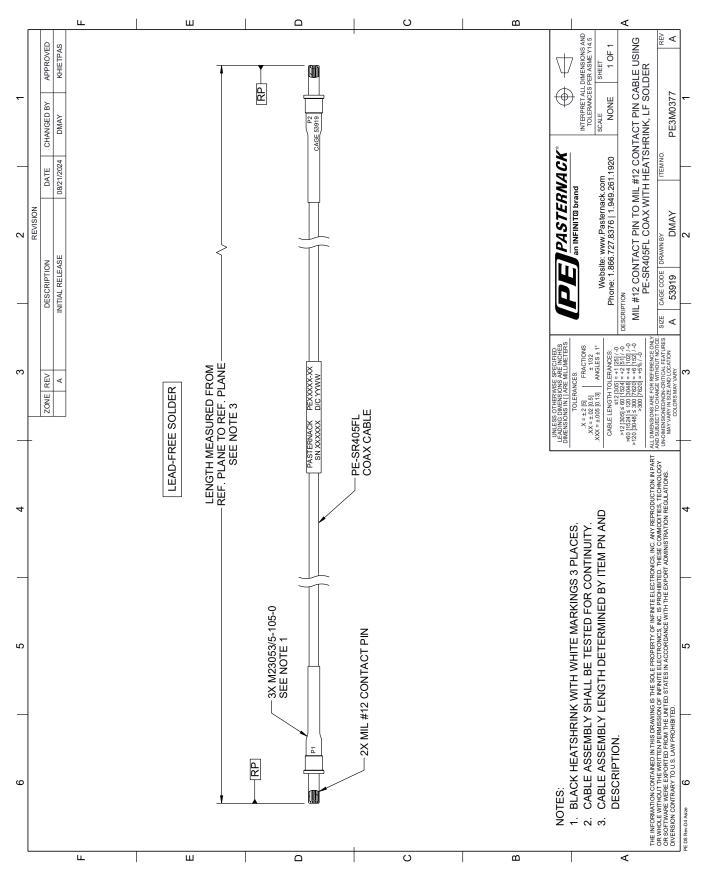
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: MIL Size 12 D38999 Contact Pin to MIL Size 12 D38999 Contact Pin Cable Using PE-SR405FL Coax with HeatShrink, LF Solder PE3M0377

URL: https://www.pasternack.com/mil-12-contact-pin-to-mil-12-contact-pin-cable-using-pe-sr405fl-coax-with-heatshrink-lf-solder-pe3m0377-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.

PE3M0377 CAD Drawing

MIL Size 12 D38999 Contact Pin to MIL Size 12 D38999 Contact Pin Cable Using PE-SR405FL Coax with HeatShrink, LF Solder



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Pasternack:

PE3M0377-48