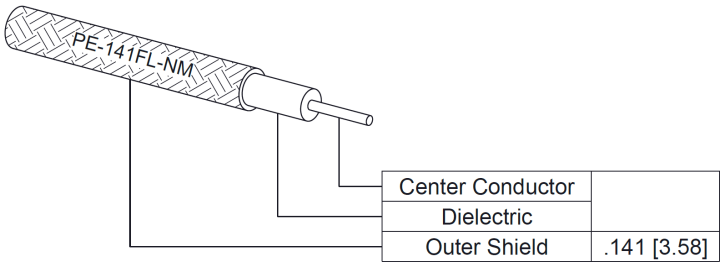
BMB Size 8 D38999 Contact Pin to BMB Size 8 D38999 Contact Pin Cable Using PE-141FL-NM Coax with HeatShrink, LF Solder

PE3M0369

Configuration

- Connector 1: Push-on BMB Pin
- Connector 2: Push-on BMB Pin
- Cable Type: PE-141FL-NM
- Coax Flex Type: Formable



Features

- Max Frequency: 22 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 PE3M0369 from Pasternack is a D38999 contact cable assembly that is built with a size 8 BMB pin contact connection on one end and a BMB 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 22 GHz.

The PE3M0369 RF cable has a copper jacket. This radio frequency cable assembly can withstand temperatures ranging from -65 to 165 degrees C. Our BMB pin to BMB pin cable has a maximum VSWR of 1.4:1. This RF cable assembly with a 0.5-inch diameter has silver plated copper as the cable's inner conducting material and PTFE dielectric type. The PE3M0369 between-series RF cable has 0.375 inches of repeated minimum bend radius along with 90 dB of minimum RF shielding.

BMB pin to BMB pin cable assembly is built with PE-141FL-NM, which is a formable coax type. The Pasternack PE3M0369 formable cable assembly has a 50 Ohm impedance and is double shielded. Additional dimensions, specifications, and CAD drawings for this BMB to BMB RF cable are available on our downloadable PDF datasheet.

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

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Referenced Specifications

IPC J-STD-001	Requirements for Soldered Electrical and Electronic Assemblies
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-141FL-NM in accordance with PE-141FL-NM datasheet
Connector 1	in accordance with MIL-DTL-38999
Connector 2	in accordance with MIL-DTL-38999
Heat Shrink 1	M23053/5-106-0 in accordance with SAE AS23053
Heat Shrink 2	M23053/5-106-0 in accordance with SAE AS23053
Solder	SAC305 in accordance with J-STD-006

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		22	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
RF Shielding	90			dB

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	18000	MHz	
PE3M0369	Custom Lengths Available	Insertion Loss (Typ.)	0.16	0.22	0.36	0.55	0.852	dB/ft	
			0.54	0.72	1.2	1.82	2.8	dB/m	
PE3M0369-6	6 inch	Insertion Loss (Typ.)	0.29	0.31	0.39	0.48	0.63	dB	0.68
PE3M0369-12	12 inch	Insertion Loss (Typ.)	0.37	0.42	0.57	0.76	1.06	dB	1.34
PE3M0369-24	24 inch	Insertion Loss (Typ.)	0.53	0.64	0.93	1.31	1.91	dB	2.66
PE3M0369-36	36 inch	Insertion Loss (Typ.)	0.69	0.86	1.29	1.86	2.76	dB	3.98
PE3M0369-48	48 inch	Insertion Loss (Typ.)	0.85	1.08	1.66	2.42	3.61	dB	5.3
PE3M0369-60	60 inch	Insertion Loss (Typ.)	1.01	1.3	2.02	2.97	4.46	dB	6.62

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:	1.34	pounds
Additional Weight per Foot:	1.32	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		1.34 [607.81]		lbs [g]
Repeated Minimum Bend Radius	0.375			in

Cable Characteristics

Description	Specification
Cable Type	PE-141FL-NM
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Silver Plated Copper
Dielectric Type	PTFE
Number of Shields	1
Outer Conductor 1 Material and Plating	Copper-Tin Composite
Jacket Material	Copper

Connector Characteristics

Description	Connector 1	Connector 2
Type	BMB Pin	BMB Pin

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Connector Characteristics

Description	Connector 1	Connector 2
Specification	MIL-DTL-38999	MIL-DTL-38999
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	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Material and Plating	Stainless Steel, Passivated	Stainless Steel, Passivated

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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How to Order

Part Number Configuration: **PE3M0369 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3M0369 — Base Number

Example: PE3M0369-12 = 12 inches long cable
PE3M0369-100cm = 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"

BMB Size 8 D38999 Contact Pin to BMB Size 8 D38999 Contact Pin Cable Using PE-141FL-NM 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: BMB Size 8 D38999 Contact Pin to BMB Size 8 D38999 Contact Pin Cable Using PE-141FL-NM Coax with HeatShrink, LF Solder PE3M0369

URL: https://www.pasternack.com/bmb-8-contact-pin-to-bmb-8-contact-pin-cable-using-pe-141fl-nm-coax-with-heatshrink-lf-solder-pe3m0369-p.aspx

PE3M0369 CAD Drawing

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