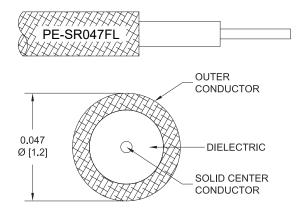


R. C.

PE3M0445

Configuration

- Connector 1: Push-on SMPS PinConnector 2: Push-on SMPS Socket
- Cable Type: PE-SR047FL
 Coax Flex Type: Formable



Features

- · Max Frequency: 20 GHz
- · Can be installed in all D38999 size 16 inserts

Applications

- · Military and Aerospace
- Avionics

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

Description

The PE3M0445 from Pasternack is a D38999 contact cable assembly that is built with a size 16 SMPS pin contact connection on one end and a SMPS socket 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 SMPS to SMPS cable assembly is a part of one of the largest selections of same-day ship coaxial cables for RF, microwave, and millimeter wave interconnect solutions. 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 100 degrees C. Our SMPS pin to SMPS socket 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.

SMPS pin to SMPS socket cable assembly is built with PE-SR047FL, which is a formable coax type. The Pasternack PE3M0445 formable cable assembly has a 50 Ohm impedance and is single shielded. Additional dimensions, specifications, and CAD drawings for this SMPS to SMPS RF cable are available on our downloadable PDF datasheet.

SMPS pin to SMPS socket 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 SMPS 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 SMPS to SMPS RF cable assembly as per your requirements.





PE3M0445

Referenced Specifications

IPC J-STD-001 Requirements for Soldered Electroical 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-3655, MIL-DTL-25516, MIL-DTL-25516, MIL-DTL-3650, MIL-DTL-3655, 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-SR047FL in accordance with PE-SR047FL datasheet		
Connector 1	in accordance with MIL-DTL-38999		
Connector 2	in accordance with MIL-DTL-38999		
Heat Shrink 1	M23053/5-103-0 in accordance with SAE AS23053		
Heat Shrink 2	M23053/5-103-0 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		32 [104.99] pF/ft [pF/r			
DC Resistance Inner Conductor	207 [679.13]			Ω/1000ft [Ω/Km]	
DC Resistance Outer Conductor		8 [26.25]		[Ω/Km]	

Specifications by Frequency



PE3M0445

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Fait Nullibel	Lengui	Frequency	1000	2000	4500	9000	20000	MHz	weight (ms)
PE3M0445	Custom Lengths	Insertion Loss (Typ.)	0.36	0.51	0.81	1.2	1.92	dB/ft	
F ESIVIO443	Available	insertion Loss (Typ.)	1.19	1.66	2.65	3.93	6.3	dB/m	
PE3M0445-6	6 inch	Insertion Loss (Typ.)	0.38	0.46	0.61	0.8	1.16	dB	0.0215
PE3M0445-12	12 inch	Insertion Loss (Typ.)	0.56	0.71	1.01	1.4	2.12	dB	0.023
PE3M0445-24	24 inch	Insertion Loss (Typ.)	0.92	1.21	1.82	2.6	4.04	dB	0.026
PE3M0445-36	36 inch	Insertion Loss (Typ.)	1.28	1.72	2.63	3.79	5.96	dB	0.029
PE3M0445-48	48 inch	Insertion Loss (Typ.)	1.64	2.22	3.43	4.99	7.88	dB	0.032
PE3M0445-60	60 inch	Insertion Loss (Typ.)	2	2.73	4.24	6.18	9.8	dB	0.035

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:

0.023 pounds

Additional Weight per Foot:

0.003 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			0.023 [10.43]		lbs [g]

Cable Characteristics

Description	Specification	
Cable Type	PE-SR047FL	
Impedance	50 Ohms	
Inner Conductor Type	Solid	
Inner Conductor Material and Plating	Copper Clad Steel	
Dielectric Type	PTFE	
Number of Shields	1	
Outer Conductor 1 Material and Plating	Tinned Copper Braid	

Connector Characteristics

Description	Connector 1	Connector 2
Туре	SMPS Pin	SMPS Socket
Specification	MIL-DTL-38999	MIL-DTL-38999
Impedance	50 Ohms	50 Ohms





PE3M0445

Connector Characteristics

Description	Connector 1	Connector 2
Configuration	Straight	Straight
Connection Method	Push-on	Push-on
Contact Size	16	16
Mating Cycles	500	500
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	Brass	Stainless Steel, Passivated

Mechanical Specification Notes:

Environmental Specifications

Description	Specification	
Temperature Operating Range	-65 to +100 deg C	

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

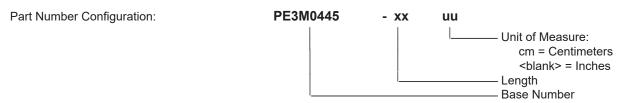
Values at 25°C, sea level.





PE3M0445

How to Order



Example: PE3M0445-12 = 12 inches long cable

PE3M0445-100cm = 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"

SMPS Size 16 D38999 Contact Pin to SMPS Size 16 D38999 Contact Socket Cable Using PE-SR047FL Coax with Heat Shrink, 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: SMPS Size 16 D38999 Contact Pin to SMPS Size 16 D38999 Contact Socket Cable Using PE-SR047FL Coax with Heat Shrink, LF Solder PE3M0445

URL: https://www.pasternack.com/smps-16-contact-pin-to-smps-16-contact-socket-cable-using-pe-sr047fl-coax-with-heatshrink-lf-solder-pe3m0445-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.

PE3M0445 CAD Drawing

SMPS Size 16 D38999 Contact Pin to SMPS Size 16 D38999 Contact Socket Cable Using PE-SR047FL Coax with Heat Shrink, LF Solder

