



RF Cable Assemblies Technical Data Sheet

PE39803-36

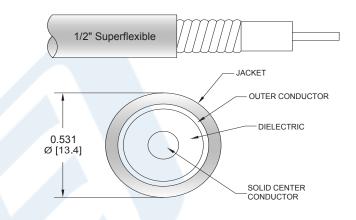
Configuration

Connector 1: 7/16 DIN Male
Connector 2: 7/16 DIN Male

• Cable Type: 1/2" Superflexible

Features

- 1/2" Flexible and 1/2" Superflexible cable
- 100% RF and PIM Tested
- Low Insertion Loss
- Low Return Loss at 2.7 GHz
- -160 dBc PIM Rating
- Velocity of Propagation at 82%



Applications

· General Purpose

Laboratory Use

· Low PIM Applications

Description

Pasternack's corrugated cable assemblies are ideal for applications where durability and high power are needed. These high quality 50 ohm cable assemblies are constructed with a solid copper clad aluminum inner conductor, a foam dielectric, corrugated copper tube, and a tough polyethylene jacket. The solid inner and outer conductors are designed to help minimize intermodulation distortion (IMD) in communications applications. Durability is ensured thanks to the injection molded boot on the connectors for added strain relief. Our carefully selected assemblies provide the highest quality on the market with PIM ratings of -160 dBc and low return loss. Available in 1/2" flexible and 1/2" superflexible cable types in 7/16 DIN and type N connector configurations.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		2.7	GHz
Return Loss			-26	dB
Velocity of Propagation		82		%
Passive Intermodulation			-160	dBc
Capacitance		24.4 [80.05]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		0.92 [3.02]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		1.13 [3.71]		Ω/1000ft [Ω/Km]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 7/16 DIN Male to 7/16 DIN Male Low PIM Cable 36 Inch Length Using 1/2 inch Superflexible Coax with HeatShrink, LF Solder, RoHS PE39803-36

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451





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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2.2	2.7			GHz
Insertion Loss (Typ.)	0.096	0.15	0.168			dB
Return Loss (Max.)	-30	-28	-26			dB

Electrical Specification Notes:

Insertion loss does not include the loss of the connectors.

Insertion loss is estimated as 0.05 x sqrt(fGHz) dB per connector.

Passive intermodulation is measured with two 20W tones.

Mechanical Specifications

Cable Assembly

Length* Diameter

Weight

Cable

Cable Type Impedance

Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type

Outer Conductor Material and Plating

Outer Conductor Diameter

Jacket Material

Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius

Typical Flex Cycles Flat Plate Crush

Tensile Strength

36 in [914.4 mm] 0.535 in [13.59 mm]

0.722 lbs [327.49 g]

1/2" Superflexible

50 Ohms

Solid

Copper Clad Aluminum

PE (F)

Helically Corrugated Copper Tube

0.484 in [12.29 mm]

PE, Black

0.531 in [13.49 mm]

0.59 in [14.99 mm]

1.18 in [29.97 mm]

20

85.6 lbs/in [1.53 Kg/mm] 225 lbs [102.06 Kg]

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Connectors

Description	Connector 1	Connector 2 7/16 DIN Male	
Туре	7/16 DIN Male		
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Silver	Brass, Silver	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	
Hex Size	32 mm	32 mm	
Torque	18.417 ft-lbs [24.97 Nm]	18.417 ft-lbs [24.97 Nm]	

Mechanical Specification Notes:

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.

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^{*}All cable assemblies have a length tolerance of 1.5% or \pm 3/8", whichever is greater.

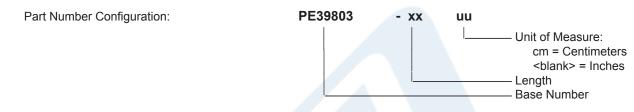




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How to Order



Example: PE39803-12 = 12 inches long cable

PE39803-100cm = 100 cm long cable

7/16 DIN Male to 7/16 DIN Male Low PIM Cable 36 Inch Length Using 1/2 inch Superflexible Coax with HeatShrink, LF Solder, RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/7-16-MALE-7-16-MALE-1-2-Super-Flexible-Cable-PE39803-36-p.aspx

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

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