



RF Cable Assemblies Technical Data Sheet

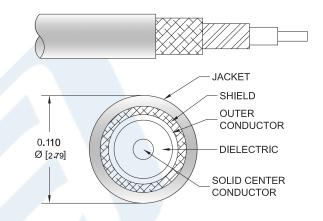
PE3C3749/PH180

Configuration

- Connector 1: Push-OnSMP Female Right Angle
- Connector 2: Push-OnSMP Female Right Angle
- · Cable Type: LMR-100A

Features

- · Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- · 66% Phase Velocity
- · Double Shielded
- PVC Jacket



Applications

· General Purpose

· Laboratory Use

Description

Pasternack's PE3C3749/PH180 SMP female push-on right angle to SMP female push-on right angle cable using LMR-100 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SMP to SMP cable assembly has a female to female gender configuration with 50 ohm flexible LMR-100A coax. The PE3C3749/PH180 SMP female to SMP female cable assembly operates to 3 GHz. The right angle SMP interfaces on the LMR-100A cable allow for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Push-On SMP Female Right Angle to Push-On SMP Female Right Angle Low Loss Cable Using LMR-100 Coax with 180 Deg. Clock PE3C3749/PH180

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

Sales@Pasternack.com • Techsupport@Pasternack.com





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR		/ J.	1.4:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Group Delay		1.54 [5.05]		ns/ft [ns/m]
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Inductance		0.077 [0.25]		uH/ft [uH/m]
DC Resistance Inner Conductor		81 [265.75]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		9.5 [31.17]		Ω/1000ft [Ω/Km]
Operating Voltage (AC)			350	Vrms
Jacket Spark			2,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.07	0.115	0.165	0.24	0.434	dB/ft
	0.23	0.38	0.54	0.79	1.42	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.05xSQRT(fGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.025 lbs [11.34 g]

Cable

Cable TypeLMR-100AImpedance50 OhmsInner Conductor TypeSolid

Inner Conductor Material and Plating Copper Clad Steel

Dielectric Type PE Number of Shields 2

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid

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Jacket MaterialPVC, BlackJacket Diameter0.11 in [2.79 mm]

One Time Minimum Bend Radius
Repeated Minimum Bend Radius
1 in [25.4 mm]
Bending Moment
0.1 lbs-ft [0.14 N-m]
Flat Plate Crush
10 lbs/in [0.18 Kg/mm]
Tensile Strength
15 lbs [6.8 Kg]

Connectors

Description	Connector 1	Connector 2 SMP Female Right Angle MIL-STD-348A	
Туре	SMP Female Right Angle		
Specification	MIL-STD-348A		
Impedance	50 Ohms	50 Ohms	
Connection Method	Push-On	Push-On	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Contact Plating Specification	30μ in. minimum	30μ in. minimum	
Dielectric Type	Teflon	Teflon	
Outer Conductor Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Outer Conductor Plating Specification	3μ in. minimum	3μ in. minimum	
Body Material and Plating	Brass, Gold	Brass, Gold	
Body Plating Specification	3μ in. minimum	3μ in. minimum	

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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How to Order



Example: PE3C3749/PH180-12 = 12 inches long cable PE3C3749/PH180-100cm = 100 cm long cable

Push-On SMP Female Right Angle to Push-On SMP Female Right Angle Low Loss Cable Using LMR-100 Coax with 180 Deg. Clock 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.

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URL: https://www.pasternack.com/push-on-smp-female-right-angle-to-push-on-smp-female-low-loss-cable-using-lmr-100-with-180-deg.-clock-pe3c3749-ph180-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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PE3C3749/PH180 CAD Drawing

Push-On SMP Female Right Angle to Push-On SMP Female Right Angle Low Loss Cable Using LMR-100 Coax with 180 Deg. Clock

