



# **RF Cable Assemblies Technical Data Sheet**

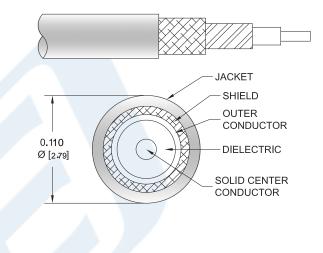
### PE3W05673-36

### Configuration

- Connector 1: Push-OnSMP Female Right Angle
- Connector 2: N Female Bulkhead
- 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 PE3W05673-36 SMP female push-on right angle to type N female bulkhead 36 inch 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 type N cable assembly has a female to female gender configuration with 50 ohm flexible LMR-100A coax. The PE3W05673-36 SMP female to type N female cable assembly operates to 3 GHz. The right angle SMP interface on the LMR-100A cable allows for easier connections in tight spaces. Our RF cable assembly with type N bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

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 N Female Bulkhead Cable 36 Inch Length Using LMR-100 Coax PE3W05673-36

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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## PE3W05673-36

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			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]		Ohms/1000ft [Ohms/
Km]				
DC Resistance Outer Conductor		9.5 [31.17]		Ohms/1000ft [Ohms/
Km]				
Jacket Spark			2,000	Vrms

#### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Insertion Loss (Max.)	0.65	0.8	1.02	1.5	1.61	dB

#### **Electrical Specification Notes:**

The Insertion Loss data above is based on the performace specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.3dB of connector loss.

#### **Mechanical Specifications**

Cable Assembly
Length*
Diameter

#### Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 36 in [914.4 mm] 0.807 in [20.5 mm]

LMR-100A 50 Ohms Solid Copper Clad Steel PE 2 Aluminum Tape Tinned Copper Braid

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Jacket Material Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength PVC, Black 0.11 in [2.79 mm]

0.25 in [6.35 mm] 1 in [25.4 mm] 0.1 lbs-ft [0.14 N-m] 10 lbs/in [0.18 Kg/mm] 15 lbs [6.8 Kg]

#### Connectors

Description	Connector 1	Connector 2	
Туре	SMP Female Right Angle	N Female Bulkhead	
Specification	MIL-STD-348A	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
Connection Method	Push-On		
Mating Cycles		100	
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold	
Contact Plating Specification	30µ in. minimum	30 µin minimum	
Dielectric Type	Teflon	PTFE	
Outer Conductor Material and Plating	Beryllium Copper, Gold		
Outer Conductor Plating Specification	3µ in. minimum		
Body Material and Plating	Brass, Gold Brass, Nicke		
Body Plating Specification	3µ in. minimum	100 µin minimum	

Mechanical Specification Notes:

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

#### **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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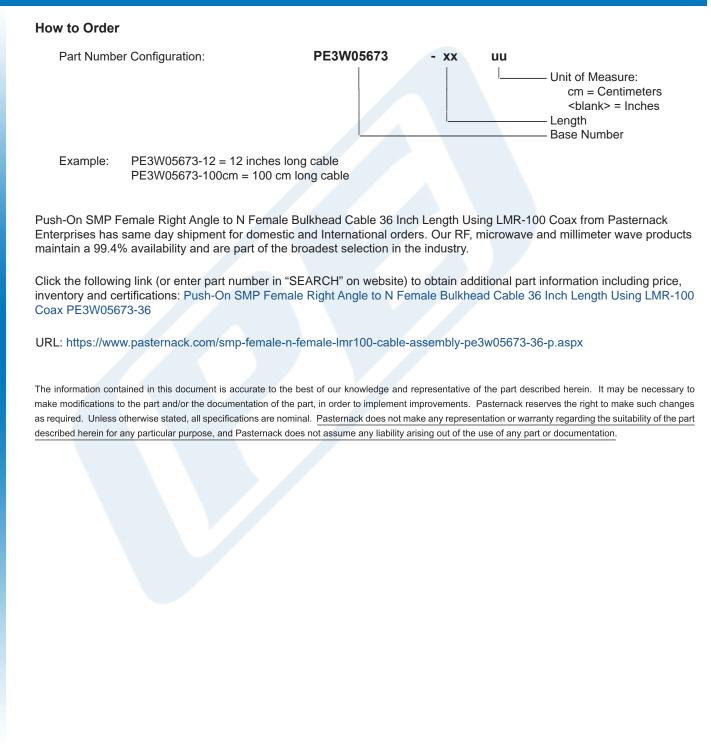
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Cable 36 Inch Length Using LMR-100 Coax

