



7/16 DIN Male Right Angle to 7/16 DIN Male Right Angle Low Loss
Cable Using LMR-400 Coax with HeatShrink and 90 Deg. Clock

RF Cable Assemblies Technical Data Sheet

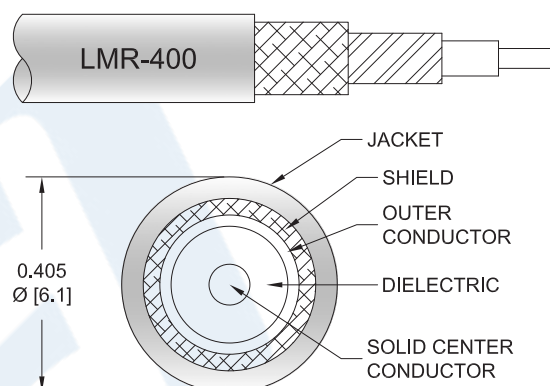
PE3W02697/SP2

Configuration

- Connector 1: 7/16 DIN Male Right Angle
- Connector 2: 7/16 DIN Male Right Angle
- Cable Type: LMR-400

Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W02697/SP2 7/16 DIN male right angle to 7/16 DIN male right angle cable using LMR-400 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 7/16 DIN to 7/16 DIN cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400 coax. The PE3W02697/SP2 7/16 DIN male to 7/16 DIN male cable assembly operates to 3 GHz. The right angle 7/16 DIN interfaces on the LMR-400 cable allow for easier connections in tight spaces. 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: [7/16 DIN Male Right Angle to 7/16 DIN Male Right Angle Low Loss Cable Using LMR-400 Coax with HeatShrink and 90 Deg. Clock PE3W02697/SP2](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		85		%
RF Shielding	90			dB
Group Delay		1.2 [3.94]		ns/ft [ns/m]
Capacitance		23.9 [78.41]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		1.39 [4.56]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ω/1000ft [Ω/Km]
Jacket Spark			8,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.052	0.02	0.028	0.041	0.074	dB/ft
	0.17	0.07	0.09	0.13	0.24	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

Weight 0.804 lbs [364.69 g]

Cable

Cable Type LMR-400
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Aluminum
 Dielectric Type PE (F)
 Number of Shields 2
 Shield Layer 1 Aluminum Tape
 Shield Layer 2 Tinned Copper Braid
 Jacket Material PE, Black
 Jacket Diameter 0.405 in [10.29 mm]

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 Right Angle to 7/16 DIN Male Right Angle Low Loss Cable Using LMR-400 Coax with HeatShrink and 90 Deg. Clock PE3W02697/SP2](#)



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One Time Minimum Bend Radius	1 in [25.4 mm]
Repeated Minimum Bend Radius	4 in [101.6 mm]
Bending Moment	0.5 lbs-ft [0.68 N-m]
Flat Plate Crush	40 lbs/in [0.71 Kg/mm]
Tensile Strength	160 lbs [72.57 Kg]

Connectors

Description	Connector 1	Connector 2
Type	7/16 DIN Male Right Angle	7/16 DIN Male Right Angle
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Spring Copper, Silver	Spring Copper, Silver
Contact Plating Specification	200µ In.	200µ In.
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	150µ In.	150µ In.
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	150µ In.	150µ In.

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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RF Cable Assemblies Technical Data Sheet

PE3W02697/SP2

How to Order

Part Number Configuration:

PE3W02697/SP2

- **xx**

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3W02697/SP2-12 = 12 inches long cable
PE3W02697/SP2-100cm = 100 cm long cable

7/16 DIN Male Right Angle to 7/16 DIN Male Right Angle Low Loss Cable Using LMR-400 Coax with HeatShrink and 90 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.

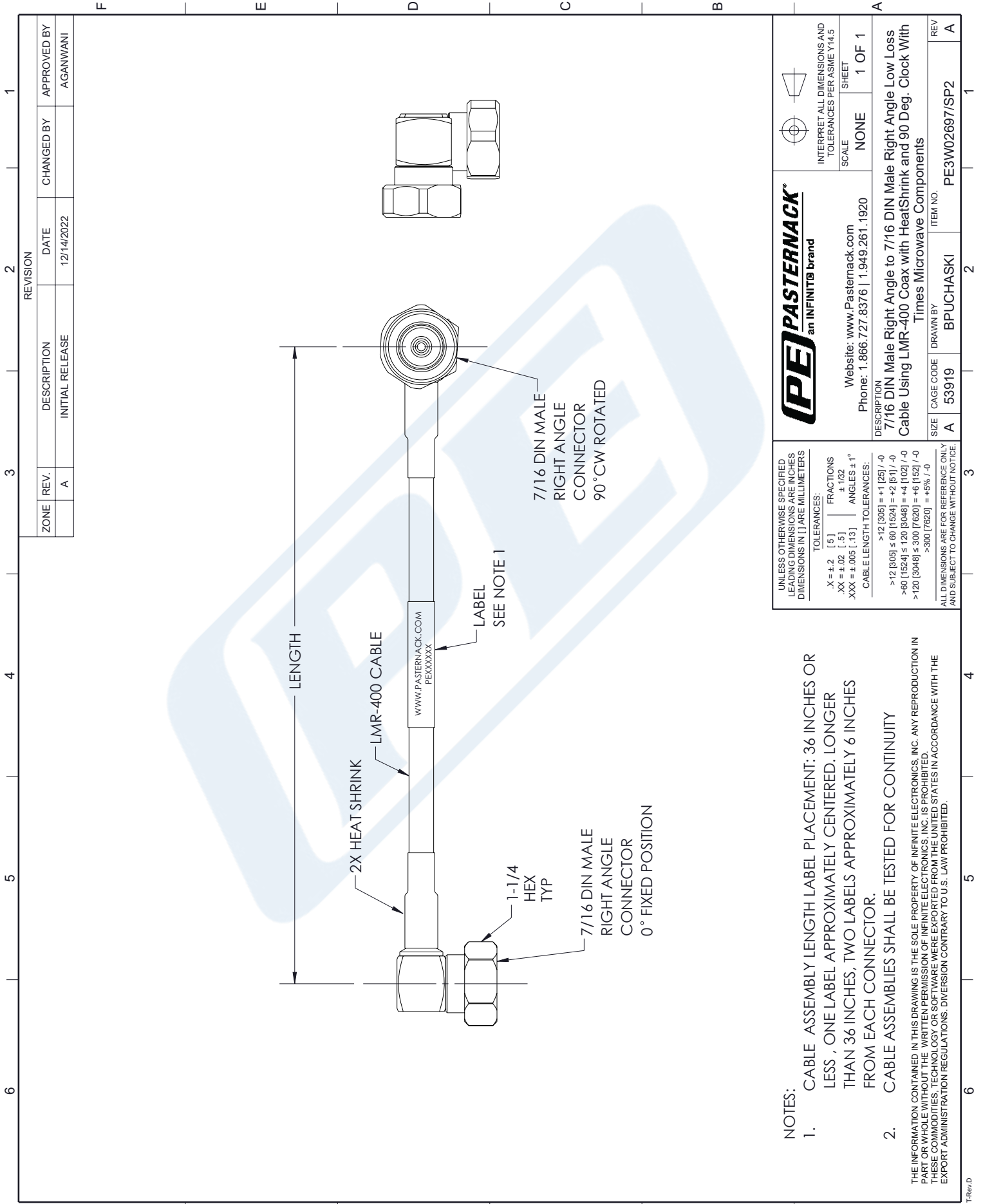
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7/16 DIN Male Right Angle to 7/16 DIN Male Right Angle Low Loss Cable Using LMR-400 Coax with HeatShrink and 90 Deg. Clock PE3W02697/SP2](https://www.pasternack.com/7-16-din-male-right-angle-to-7-16-din-male-low-loss-cable-using-lmr-400-with-heatshrink-and-90-deg.-clock-pe3w02697-sp2-p.aspx)

URL: <https://www.pasternack.com/7-16-din-male-right-angle-to-7-16-din-male-low-loss-cable-using-lmr-400-with-heatshrink-and-90-deg.-clock-pe3w02697-sp2-p.aspx>

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PE3W02697/SP2 CAD Drawing

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NOTES:

- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS , ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
- CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	
X = ±.2 [.5]	FRACTIONS ± 1/32
.XX = ±.02 [.3]	ANGLES ± 1°
XXX = ±.005 [.13]	CABLE LENGTH TOLERANCES:
	>12 [305] = +1 [25] / -0
	>12 [305] ≤ 60 [1524] = +2 [51] / -0
	>60 [1524] ≤ 120 [3048] = +4 [102] / -0
	>120 [3048] ≤ 300 [7620] = +6 [152] / -0
	>300 [7620] = +5% / -0
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.	

PE PASTERNAK an INFINITO brand	
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920	
DESCRIPTION	7/16 DIN Male Right Angle to 7/16 DIN Male Right Angle Low Loss Cable Using LMR-400 Coax with HeatShrink and 90 Deg. Clock With Times Microwave Components
SCALE	NONE
SHEET	1 OF 1
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
SIZE	A
CAGE CODE	53919
DRAWN BY	BPUCHASKI
ITEM NO.	PE3W02697/SP2
REV	A