



7/16 DIN Female to SMA Male Low Loss
Cable Using LMR-195 Coax

RF Cable Assemblies Technical Data Sheet

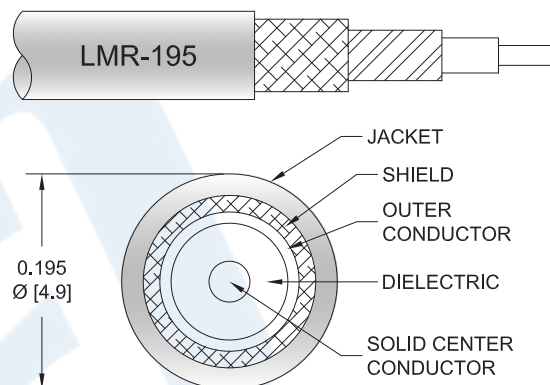
PE3C8363

Configuration

- Connector 1: 7/16 DIN Female
- Connector 2: SMA Male
- Cable Type: LMR-195

Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C8363 7/16 DIN female to SMA male cable using LMR-195 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 SMA cable assembly has a female to male gender configuration with 50 ohm flexible LMR-195 coax. The PE3C8363 7/16 DIN female to SMA male cable assembly operates to 3 GHz. 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 Female to SMA Male Low Loss Cable Using LMR-195 Coax PE3C8363](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		80		%
RF Shielding	90			dB
Group Delay		1.27 [4.17]		ns/ft [ns/m]
Capacitance		25.4 [83.33]		pF/ft [pF/m]
Inductance		0.064 [0.21]		uH/ft [uH/m]
DC Resistance Inner Conductor		7.6 [24.93]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ω/1000ft [Ω/Km]
Jacket Spark			3,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.034	0.057	0.081	0.116	0.206	dB/ft
	0.11	0.19	0.27	0.38	0.68	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.241 lbs [109.32 g]

Cable

Cable Type LMR-195
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper
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 0.195 in [4.95 mm]

One Time Minimum Bend Radius 0.5 in [12.7 mm]

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Repeated Minimum Bend Radius	2 in [50.8 mm]
Bending Moment	0.2 lbs-ft [0.27 N-m]
Flat Plate Crush	15 lbs/in [0.27 Kg/mm]
Tensile Strength	40 lbs [18.14 Kg]

Connectors

Description	Connector 1	Connector 2
Type	7/16 DIN Female	SMA Male
Specification	IEC 61169-4	
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material and Plating	Spring Copper, Silver	Brass, Gold
Contact Plating Specification	5 µm minimum	ASTM B488
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Tri-Metal	Passivated Stainless Steel
Body Plating Specification	2 µm minimum	
Coupling Nut Material and Plating		Passivated Stainless Steel
Hex Size		5/16 Inch

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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 Female to SMA Male Low Loss Cable Using LMR-195 Coax PE3C8363](#)



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RF Cable Assemblies Technical Data Sheet

PE3C8363

How to Order

Part Number Configuration:

PE3C8363

- **xx**

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

Example: PE3C8363-12 = 12 inches long cable
PE3C8363-100cm = 100 cm long cable

7/16 DIN Female to SMA Male Low Loss Cable Using LMR-195 Coax 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.

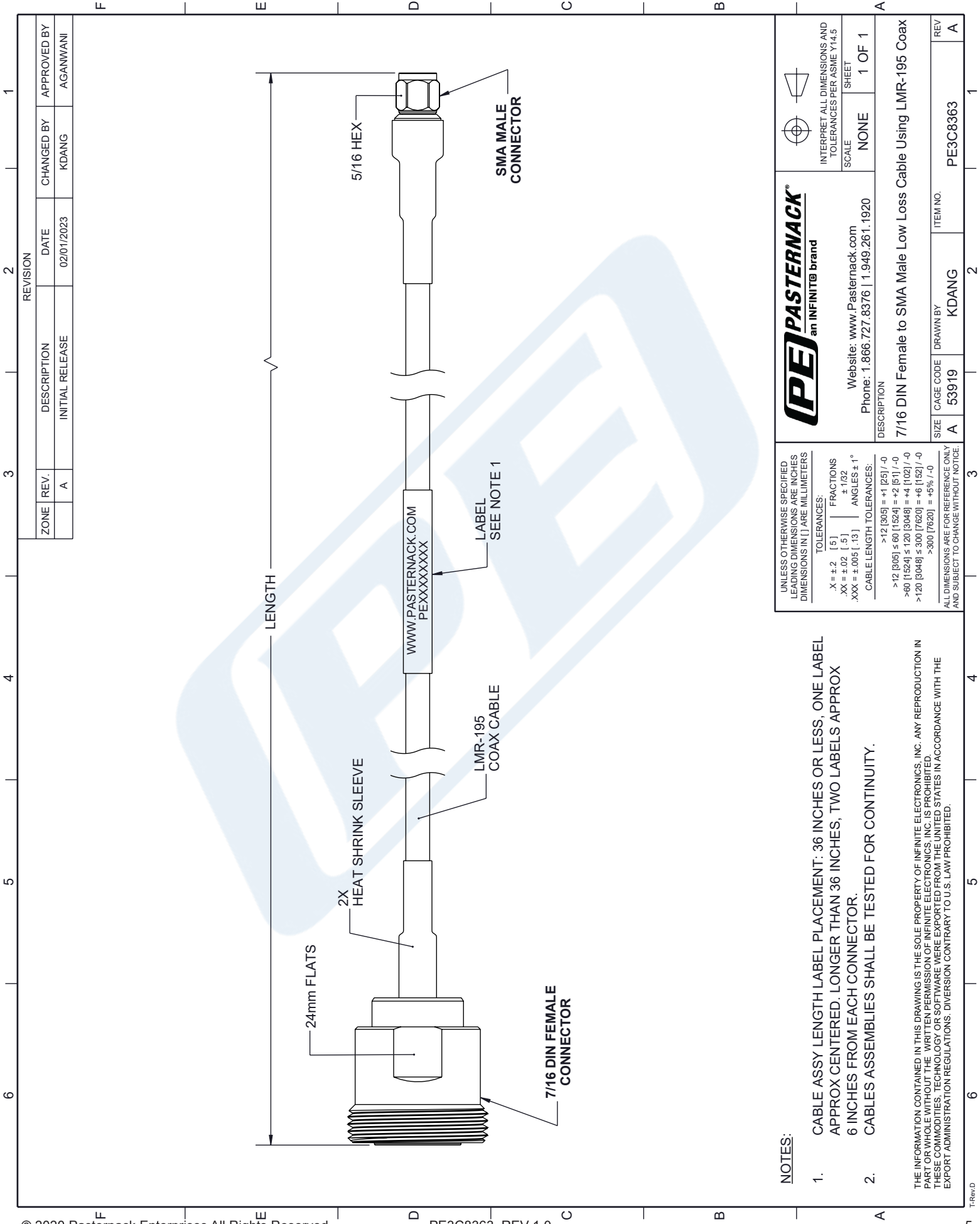
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7/16 DIN Female to SMA Male Low Loss Cable Using LMR-195 Coax PE3C8363](https://www.pasternack.com/7-16-din-female-sma-male-lmr195-cable-assembly-pe3c8363-p.aspx)

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PE3C8363 CAD Drawing

7/16 DIN Female to SMA Male Low Loss Cable Using LMR-195 Coax



NOTES:

- CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
- CABLES 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
.XX = ±.02	[.5]	±.1/32
.XXX = ±.005	[.13]	ANGLES ± 1°

CABLE LENGTH TOLERANCES:

>12 [305]	= +1 [25] / -0	
>12 [305]	≤ 60 [1524]	= +2 [61] / -0
>60 [1524]	≤ 120 [3048]	= +4 [102] / -0
>120 [3048]	≤ 300 [7620]	= +6 [152] / -0
>300 [7620]		= +5% / -0

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE

SHEET: 1 OF 1

DESCRIPTION

7/16 DIN Female to SMA Male Low Loss Cable Using LMR-195 Coax

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	KDANG	PE3C8363	A