

## Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket

### TECHNICAL DATA SHEET

### PE-C100-LSZH

#### Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket

##### Configuration

Cable Design	Low Loss
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE
Shield Materials	Aluminum Tape, Tinned Copper Braid
Jacket Material and Color	LSZH, Black

##### Electrical Specifications

Impedance, Ohms	50
Velocity of Propagation, %	66
Maximum Operating Frequency, GHz	6
Cutoff Frequency, GHz	41
RF Shielding, dB	90
Capacitance, pF/ft [pF/m]	30.8 [101.05]
Inductance, uH/ft [uH/m]	0.077 [0.25]
Maximum Operating Voltage, Volts	500
Jacket Spark, Vrms	2,000

##### Electrical Specifications by Frequency

###### Frequency 1

Frequency, MHz	30
Attenuation, dB/100ft [dB/100m]	3.9 [12.8]
Power Handling, Watts	230

###### Frequency 2

Frequency, MHz	50
Attenuation, dB/100ft [dB/100m]	5.1 [16.73]
Power Handling, Watts	180

###### Frequency 3

Frequency, MHz	150
Attenuation, dB/100ft [dB/100m]	8.9 [29.2]
Power Handling, Watts	100

###### Frequency 4

Frequency, MHz	220
Attenuation, dB/100ft [dB/100m]	10.9 [35.76]
Power Handling, Watts	80

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket PE-C100-LSZH](#)

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.



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#### Frequency 5

Frequency, MHz	450
Attenuation, dB/100ft [dB/100m]	15.8 [51.84]
Power Handling, Watts	60

#### Frequency 6

Frequency, MHz	700
Attenuation, dB/100ft [dB/100m]	19.9 [65.29]
Power Handling, Watts	40

#### Frequency 7

Frequency, MHz	750
Attenuation, dB/100ft [dB/100m]	20.7 [67.91]
Power Handling, Watts	40

#### Frequency 8

Frequency, MHz	800
Attenuation, dB/100ft [dB/100m]	21.4 [70.21]
Power Handling, Watts	40

#### Frequency 9

Frequency, MHz	900
Attenuation, dB/100ft [dB/100m]	22.8 [74.8]
Power Handling, Watts	40

#### Frequency 10

Frequency, GHz	5.8
Attenuation, dB/100ft [dB/100m]	64.1 [210.3]
Power Handling, Watts	10

### Mechanical Specifications

#### Temperature

Operating Range, deg C	-40 to +85
Storage Range, deg C	-40 to +85

#### Inner Conductor

Number of Strands	1
Material	Copper Clad Steel
Diameter, in [mm]	0.018 [0.46]

#### Dielectric:

Type	PE
Diameter, in [mm]	0.059 [1.5]

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**Shield:**

Number of	2
Material 1	Aluminum Tape
Material 2	Tinned Copper Braid
Diameter, in [mm]	0.083 [2.11]

**Jacket:**

Material	LSZH
Diameter, in [mm]	0.109 [2.77]
Color	Black
One Time Minimum Bend Radius, in [mm]	0.25 [6.35]
Repeated Minimum Bend Radius, in [mm]	1 [25.4]
Bending Moment, lbs/ft [Kg/m]	0.1 [0.15]
Flat Plate Crush, lbs/in [Kg/mm]	10 [0.18]
Tensile Strength, lbs [Kg]	15 [6.8]
Weight, lbs/ft [Kg/m]	0.014 [0.02]

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant	Yes
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**Plotted and Other Data**

Notes:	Values at 25 °C, sea level Low Smoke Zero Halogen
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Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% 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: [Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket PE-C100-LSZH](http://www.pasternack.com/50-ohm-low-loss-lszhjacket-aluminomtape-over-tinnedcopperbraid-outerconductor-double-shieldedpe-c100-lszh-p.aspx)

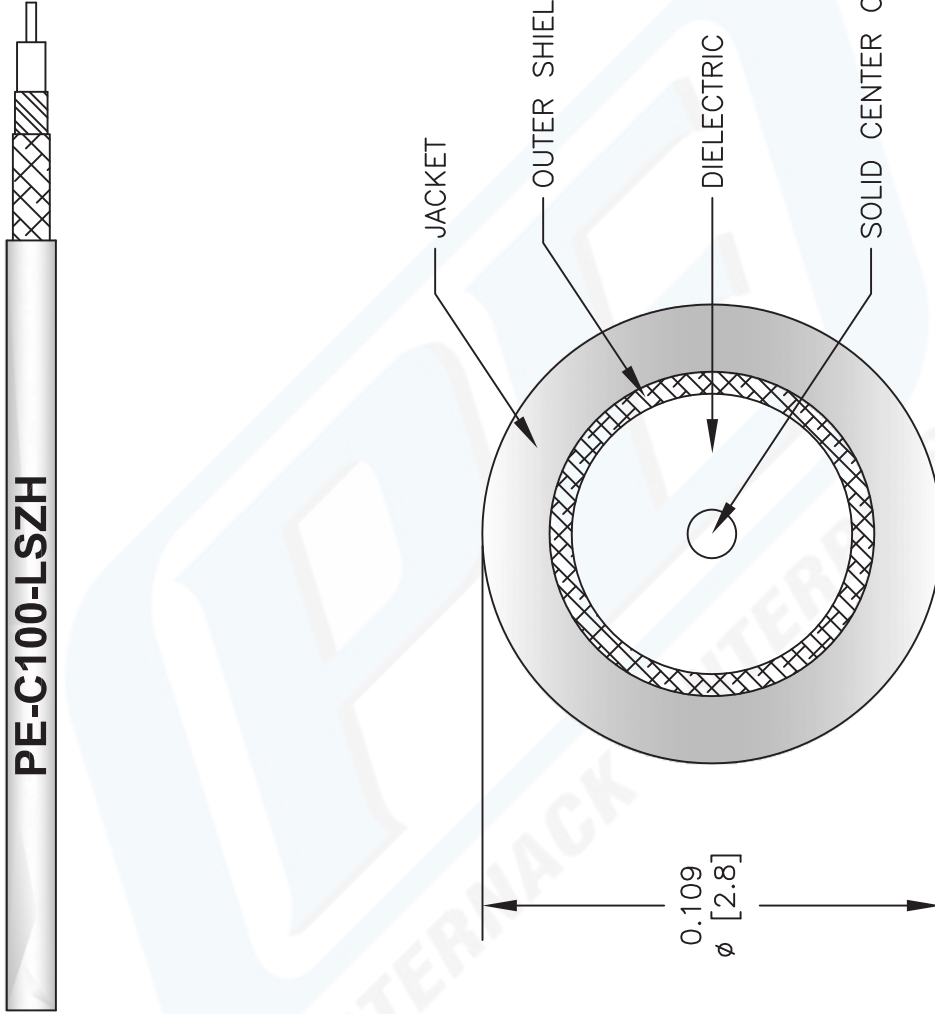
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# PE-C100-LSZH CAD Drawing

Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket



**NOTES:**

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE

**PE-C100-LSZH**

FSCM NO. 53919

CAD FILE 031313

SCALE N/A

SIZE A

2233



**PASTERNAK**<sup>®</sup>  
 Pasternack Enterprises, Inc.  
 P.O. Box 16759 | Irvine | CA | 92623  
**Phone:** (949) 261-1920 | **Fax:** (949) 261-7451  
**Website:** www.pasternack.com | **E-Mail:** sales@pasternack.com