



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

RF Cables
Technical Data Sheet

PE-C100-LSZH-BULK

Configuration

- Low Loss Flexible Cable
- 2 Shield(s)

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
Cutoff Frequency		41		GHz
Impedance		50		Ohms
Velocity of Propagation		66		%
Time Delay		1.62 [5.31]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
Operating Voltage (DC)			500	Vdc
Jacket Spark			2,000	Vrms
Inner Conductor DC Resistance			81	Ohms/1000ft
Outer Conductor DC Resistance			9.5	Ohms/1000ft
Nominal Capacitance		30.8 [101.05]		pF/ft [pF/m]
Nominal Inductance		0.077 [0.25]		uH/ft [uH/m]
Input Power (Peak)			600	Watts

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-BULK](#)



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Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	150	220	450	750	900	MHz
Attenuation, Max	9	11	15.8	20.8	22.9	dB/100ft
	29.53	36.09	51.84	68.24	75.13	dB/100m
Attenuation, Typ	8.9	10.9	15.8	20.7	22.8	dB/100ft
	29.2	35.76	51.84	67.91	74.8	dB/100m
Input Power (CW), Max	100	80	60	40	40	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	6	GHz
Attenuation, Max	30.5	33.5	35.5	40.5	66	dB/100ft
	100.07	109.91	116.47	132.87	216.54	dB/100m
Attenuation, Typ	30.1	33.2	35.2	39.8	64.1	dB/100ft
	98.75	108.92	115.49	130.58	210.3	dB/100m
Input Power (CW), Max	30	30	30	20	10	Watts

Mechanical Specifications

Diameter	0.109 in [2.77 mm]
Weight	0.01 lbs/ft [0.01 kg/m]
Min. Bend Radius (Installation)	0.25 in [6.35 mm]
Min. Bend Radius (Repeated)	1 in [25.4 mm]
Bending Moment	0.1 lbs-ft [0.14 N-m]
Tensile Strength	15 lbs [6.8 kg]
Flat Plate Crush	10 lbs/in [0.18 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, 1 Strand	0.018 in [0.46 mm]
Conductor Type	Solid	
Dielectric	PE	0.059 in [1.5 mm]

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First Shield	Aluminum Tape	[]
Second Shield	Tinned Copper Braid	0.083 in [2.11 mm]
Jacket	LSZH, Black	0.109 in [2.77 mm]

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
Installation Range	-70 to +85 deg C
Storage Range	-40 to +85 deg C

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

Plotted and Other Data

Notes:

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 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/50-ohm-low-loss-lszh-jacket-aluminum-tape-over-tinned-copper-braid-outer-conductor-double-shielded-pe-c100-lszh-bulk-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.

PE-C100-LSZH-BULK CAD Drawing

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