



The eP-LL100 Flexible cable is a LMR-100 equivalent, and offers users high quality alternatives to RG-174 and RG-316, but have better loss performance as well as better shielding effectiveness (>90 dB). evissap offers its eP-LL100 Flexible cable assemblies in a wide variety of connector configurations, eP-LL100 Flexible cable assemblies are built using lead free solder in combination with state-of-the art induction soldering techniques.

Features

- eP-LL100 Low Loss Flexible
- BNC Male and Female straight connectors
- 100% VSWR test to 3 GHz
- 100% Hi-pot and continuity tests
- Standard delivery <21 days from order
- RoHS compliant per evissap RoHS statement

Overview

Impedance	50 ohms
Frequency Range	DC-3 GHz
Cable	eP-LL100
Cable O.D.	.110" nominal

Configuration

Connector 1	BNC male
	Ni-plated brass body
	Ni plated coupling nut
Connector 2	BNC female
	Ni-plated brass body
	Ni plated coupling nut

Application

- WLL, GPS, WLAN
- Mobil Antennas
- Wireless Communication Sysytem

evissap Standards

When ordering, please specify cable assembly length in inches. Example: eP2060R-12.5 specifies a 12.5" long cable assembly. Label will have evissap P/N and Date Code Shipment will include evissap's standard C of C. evissap web posted warranty and Terms and Conditions applies
FOB is evissap's San Jose, CA US facility

Connector options available for .085" cable

- * BNC ST and RT/A male, female and bulkhead
- * Type N ST and RT male, female and bulkhead
- * TNC ST and RT male, female and bulkhead
- * MCX ST and RT male, female and bulkhead

Electrical Specifications @ +25°C		Unit
Frequency range	DC-3	GHz
Maximum VSWR	1.35	:1
Cable Typical velocity of propagation	66	%

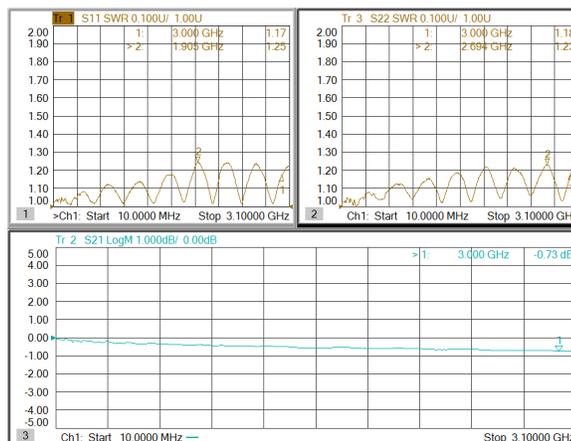
Typical Performance @+25°C	DC-1 GHz	1-2 GHz	2-3 GHz
VSWR (S11) (:1) typ. max.@ 12 in.	1.12	1.25	1.25
Insertion Loss (S21) (dB) typ. max. @12 in.	0.45	0.60	0.73

For any length (L in.), estimated insertion loss: $C + (S21 \text{ value above-C}) * (L/12)$, Connector loss is $C = 2 * .03 \sqrt{f(\text{GHz})}$

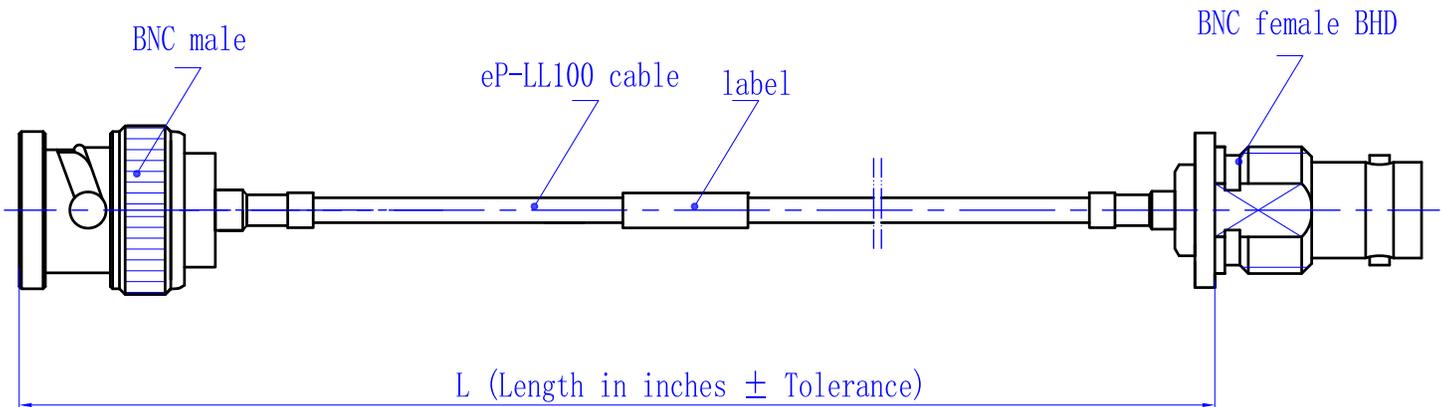
Bulk cable specifications	
Temperature range	-40 to +85° C
Cable Type	eP-LL100
Cable outer diameter	.110" nominal
Inner conductor/finish	Solid Bare Copper clad steel
Dielectric type	Solid PE
Jacket material	Black PE

Connector specifications	Connector 1	Connector 2
Configuration	Straight	Straight
Connector Type	BNC male	BNC female
Body hex size	N/A	N/A
Coupling nut hex size	N/A	N/A
Coupling nut material/finish	Ni plated brass	N/A
Connector body material/finish	Ni plated brass	Ni plated brass
Dielectric type	PTFE	PTFE

Typical performance data for 12" cable @+25°



Outline drawing



Standard length tolerance	
L (inches)	Tolerance (inches)
2.0 - 5.9	+/-0.125
6.0 - 11.9	+/-0.187
12.0 - 23.9	+/-0.250
24.0 - 35.9	+/-0.313
36.0 - 47.9	+/-0.375
48.0 - 59.9	+/-0.500
60.0 - 71.9	+/-0.563
72.0 - 83.9	+/-0.625
>83.9	Please contact evissaP

evissaP offers its eP-LL100 Flexible cable assemblies in a wide variety of connector configurations, eP-LL100 Flexible cable assemblies are built using lead free solder in combination with state-of-the art induction soldering techniques. If you cannot find the exact eP-formable cable assembly you require, please submit a request along with your requirement information.

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