



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
- MMCX Male straight and MMCX Female straight
- 100% VSWR test to 6 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-6 GHz |
| Cable | eP-LL100 |
| Cable O.D. | .110" nominal |

Configuration

| | |
|-------------|--|
| Connector 1 | MMCX male straight Gold plated brass body |
| Connector 2 | MMCX female straight Gold plated brass body |

Application

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

evissap Standards

When ordering, please specify cable assembly length in inches. Example: eP2018R-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-6 | GHz |
| Maximum VSWR | 1.35 | :1 |
| Cable Typical velocity of propagation | 66 | % |

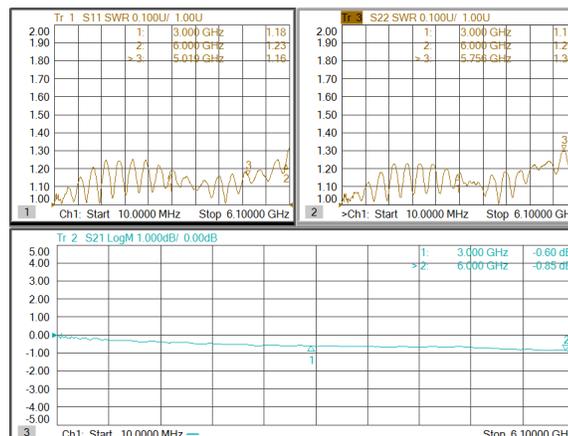
| Typical Performance @+25°C | DC-2 GHz | 2-4 GHz | 4-6 GHz |
|---|----------|---------|---------|
| VSWR (S11) (:1) typ. max.@ 12 in. | 1.24 | 1.24 | 1.24 |
| Insertion Loss (S21) (dB) typ. max. @12 in. | 0.50 | 0.70 | 0.85 |

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

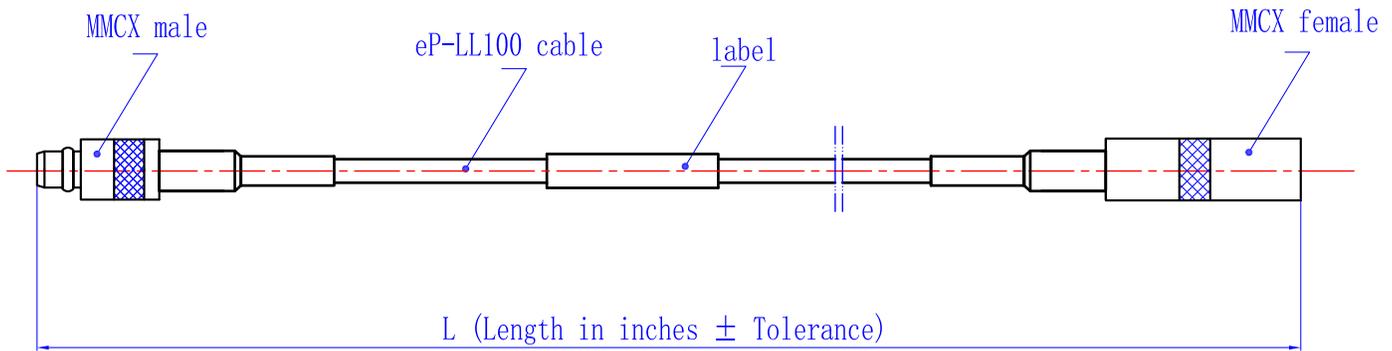
| Bulk cable specifications | |
|---------------------------|------------------------------|
| Temperature range | -40 to +85° C |
| Cable Type | eP-LL100 |
| Cable outer diameter | .110" nominal |
| Inner conductor/finish | Solid Bare Copper clad steel |
| Dielectric type | Solid PE |
| Jacket material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

| Connector specifications | Connector 1 | Connector 2 |
|--------------------------------|-------------------|-------------------|
| Connector Type | MMCX male | MMCX female |
| Configuration | Straight | Straight |
| Body hex size | N/A | N/A |
| Coupling nut hex size | N/A | N/A |
| Coupling nut material/finish | N/A | N/A |
| Connector body material/finish | Gold plated brass | Gold 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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