evissaP
RF Interconnect Solutions

eP5029R-LL.L Data Sheet

Tin-braid .085" eP-Formable cable assembly

DC-10 GHz SMA right angle-SMA female bulkhead

The eP-Formable series offers users the ability to hand form cable assemblies to final shape. evissaP offers its eP-Formable cable assemblies in a wide variety of connector configurations, cable diameters and 2 outer jacket options (tin braid and FEP). eP-Formable cable assemblies are built using lead free solder in combination with state-of-the art induction soldering techniques.

Features

- Hand bend to final shape
- Anti-torque nut on SMA Male Rt/A connector
- 100% VSWR test to 10 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-10 GHz
Cable	.085"; Tin-braid
Cable O.D.	.085" nominal

Configuration

Connector 1	SMA Male
	Brass/Au-plated brass body
	Stainless steel coupling nut
Connector 2	SMA Female
	Brass/Au-plated brass body
	Includes washer, nut & O-ring

Applications

- Test equipment
- Rack systems
- Lab setups and testing

evissaP Standards

When ordering, please specify cable assembly length in inches. Example: eP5029R-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

mini-DIN male straight & Rt/A	BNC male straight & Rt/A
mini-DIN female BH	BNC female straight & BH
SMA male straight & Rt/A	2.92mm male straight & Rt/A
SMA female straight & BH	7/16 male straight & Rt/A
N male straight & Rt/A	7/16 female BH
N female straight & BH	4.3-10 male straight & Rt/A
TNC male straight & BH	4.3-10 female BH
TNC female straight & BH	

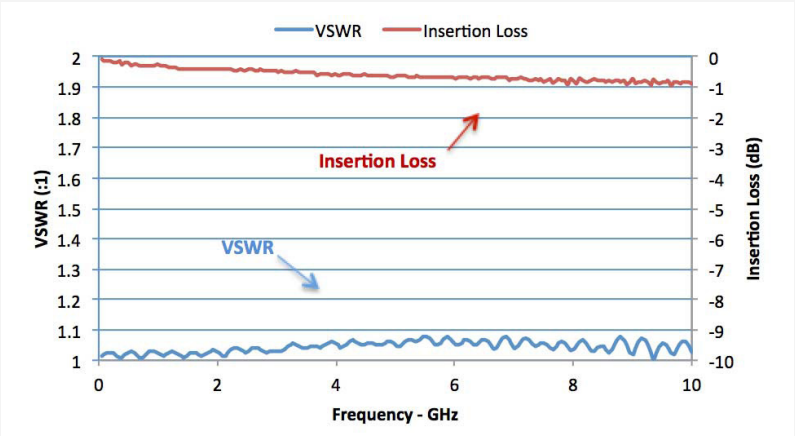
Electrical Specifications @ +25°C		Unit
Frequency range	DC-10	GHz
Maximum VSWR	1.35	:1
Typical velocity of propagation	69.5	%

Typical Performance @+25°C	DC-2 GHz	2-4 GHz	4-6 GHz	6-8 GHz	8-10 GHz
VSWR (S11) (:1) typ. max.@ 12 in.	1.03	1.06	1.08	1.08	1.08
Insertion Loss (S21) (dB) typ. max. @ 12 in.	0.41	0.61	0.70	0.92	0.96
For any length (L in.), estimated insertion loss: C + (S21 value above-C) * (L/12) , Connector loss is C = 2 * .03 √f(GHz)					

Bulk cable specifications	
Temperature range	-65 to +125° C
Cable Type	.085"; eP-Formable Tin braid
Cable outer diameter	.085" nominal
Inner conductor/finish	Silver-plated copper clad steel
Dielectric type	PTFE
Jacket material	N/A

Connector specifications	Connector 1	Connector 2
Configuration	Right Angle	Straight
Connector Type	SMA male	SMA female bulkhead
Anti-Torque hex size	N/A	.430"
Coupling nut hex size	5/16"	N/A
Coupling nut material/finish	Stainless steel/Passivated	N/A
Connector body material/finish	Brass/Au	Brass/Au
Dielectric type	PTFE	PTFE

Typical performance data for 12" cable @+25°



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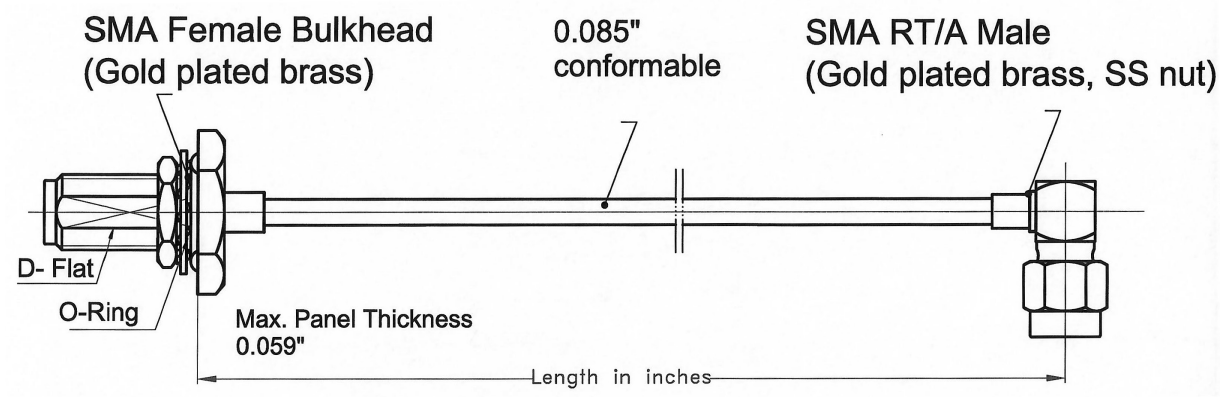
Outline drawing



Standard length tolerances

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-formable cable assemblies in a variety of connector interfaces, connector configurations, cable diameters and outer jacket options. eP-formable 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.

evissaP reserves the right to change specifications, prices and any other information at any time without prior notice.

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