



The eP-Sprial Strip Flexible series offers users the flexible Phase and Amplitude stable with the unique shielding configuration test grade cable. evissaP offers its eP-Sprial Strip Flexible cable assemblies in a wide variety of connector configurations, cable diameters and oil and chemicals resistant FEP jacket. eP-Sprial Strip Flexible cable assemblies are built using lead free solder in combination with state-of-the-art induction soldering techniques.

Features

- eP-Sprial Strip Flexible
- SMA Male straight connectors
- 100% VSWR test to 18 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-18 GHz
Cable	RG-405 eP-Sprial Strip Flex
Cable O.D.	.158" nominal

Configuration

Connector 1	SMA male
	Au-plated brass body Stainless steel coupling nut
Connector 2	SMA male
	Au-plated brass body Stainless steel coupling nut

Application

- Test equipment
- Rack systems
- Lab setups and testing

evissaP Standards

When ordering, please specify cable assembly length in inches. Example: eP7090R-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
- * 2.92 mm male

Electrical Specifications @ +25°C		Unit
Frequency range	DC-26.5	GHz
Maximum VSWR	1.35	:1
Cable Typical velocity of propagation	69.5	%

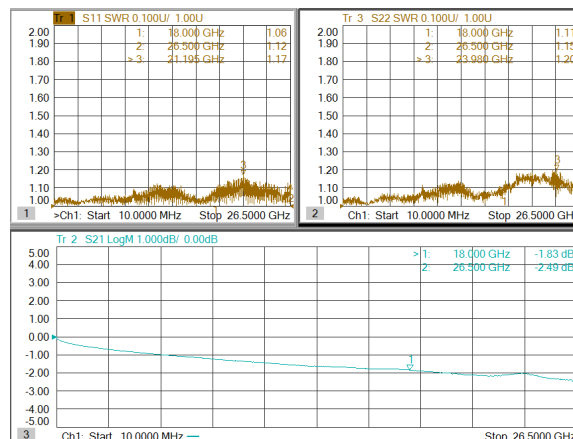
Typical Performance @+25°C	DC-4 GHz	4-6 GHz	6-10 GHz	10-18 GHz	18-26.5 GHz
VSWR (S11) (:1) typ. max.@ 36 in.	1.05	1.06	1.08	1.21	1.21
Insertion Loss (S21) (dB) typ. max. @36 in.	0.90	1.08	1.30	1.80	2.49

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

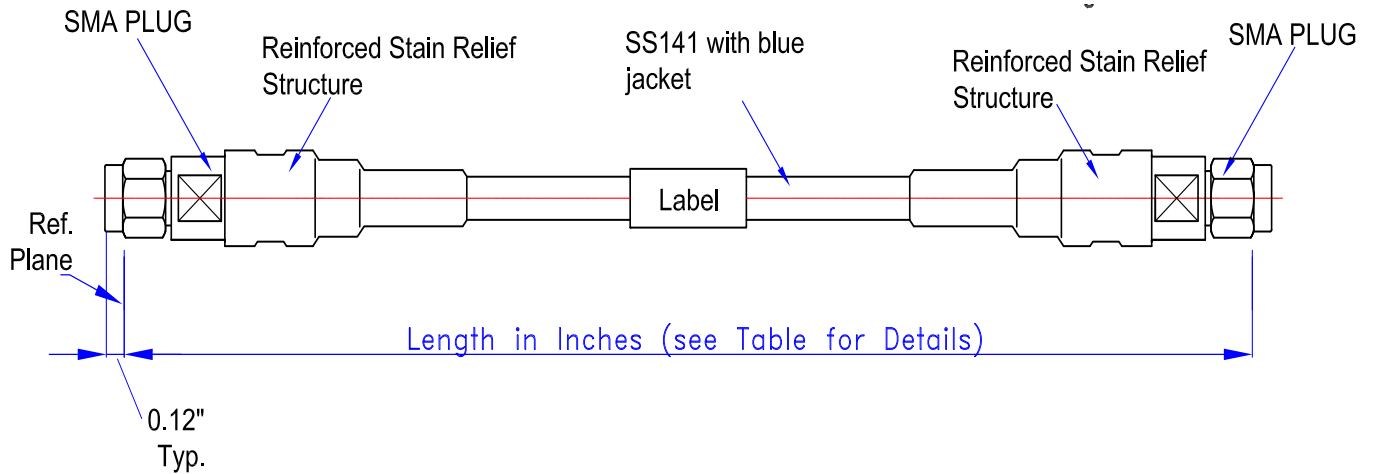
Bulk cable specifications	
Temperature range	-65 to +125° C
Cable Type	141 eP-Sprial Strip Flexible
Cable outer diameter	.158" nominal
Inner conductor/finish	Silver-plated copper clad steel
Dielectric type	PTFE
Jacket material	FEP

Connector specifications	Connector 1	Connector 2
Configuration	Straight	Straight
Connector Type	SMA male	SMA male
Body hex size	N/A	N/A
Coupling nut hex size	5/16"	5/16"
Coupling nut material/finish	Stainless steel/Passivated	Stainless steel/Passivated
Connector body material/finish	Brass/Au-plated	Brass/Au-plated
Dielectric type	PTFE	PTFE

Typical performance data for 36" 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

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