



RF Cable Assemblies Technical Data Sheet

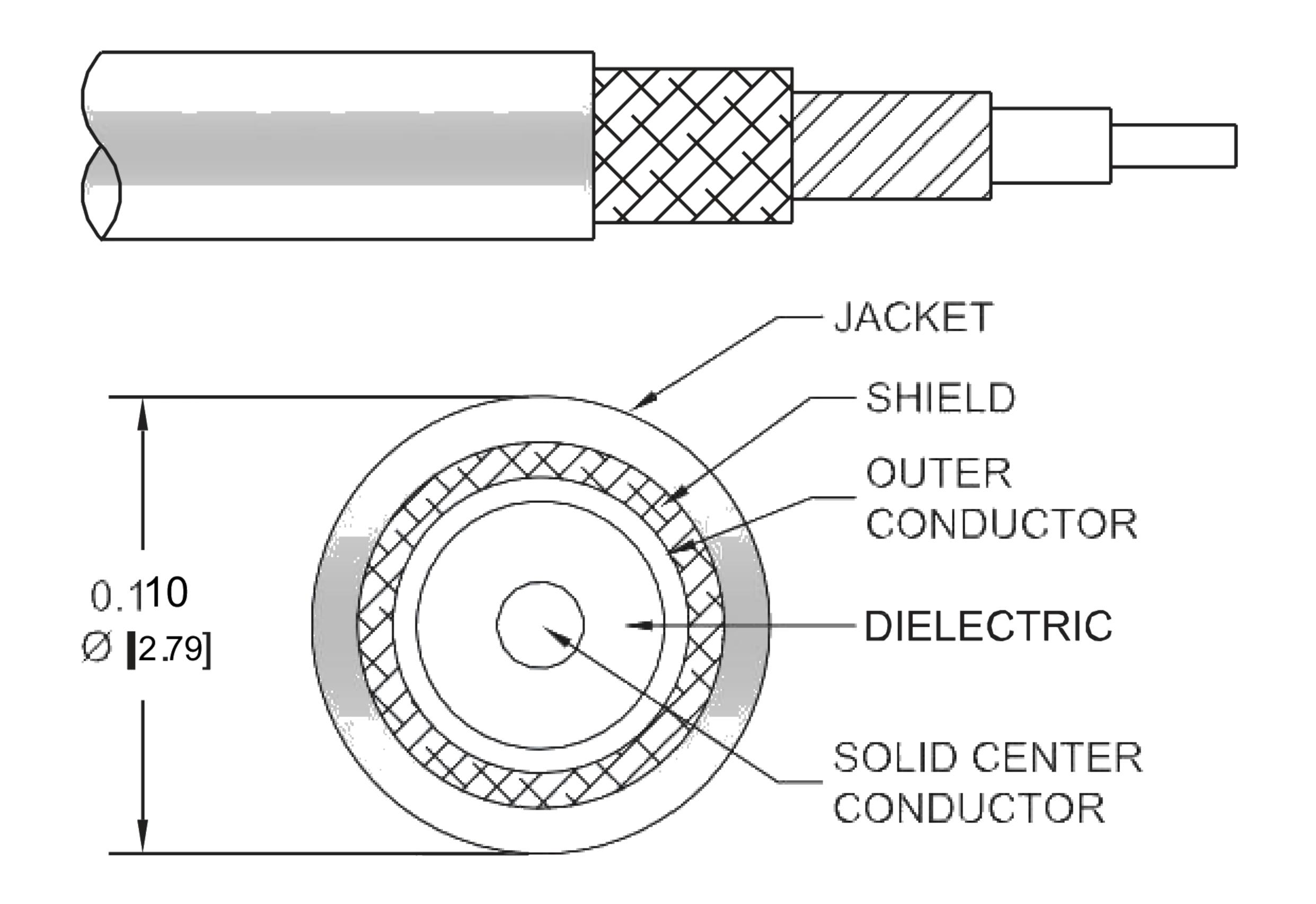
ET32394

Configuration

- Connector 1: Push-OnSMP Female Right Angle
- Connector 2: SMA Male Right Angle
- Cable Type: ET-LMR-100A

Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



Applications

General Purpose

Laboratory Use

Description

Ebeestock's ET32394 SMP female push-on right angle to SMA male right angle 24 inch cable using ET-LMR-100 coax is part of our full line of RF components available for same-day shipping. Ebeestock's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Ebeestock SMP to SMA cable assembly has a female to male gender configuration with 50 ohm flexible ET-LMR-100A coax. The ET32394 SMP female to SMA male cable assembly operates to 3 GHz. The right angle SMP and right angle SMA interfaces on the ET-LMR-100A cable allow for easier connections in tight spaces. The double shielding of this Ebeestock cable assembly provides excellent shielding effectiveness of better than 90 dB.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Push-On SMP Female Right Angle to SMA Male Right Angle Cable 24 Inch Length Using ET-LMR-100 Coax with HeatShrink ET32394





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Group Delay		1.54 [5.05]		ns/ft [ns/m]
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Inductance		0.077 [0.25]		uH/ft [uH/m]
DC Resistance Inner Conductor		81 [265.75]		Ohms/1000ft [Ohms/
Km]				
DC Resistance Outer Conductor		9.5 [31.17]		Ohms/1000ft [Ohms/
Km]				
Jacket Spark			2,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	3	GHz
Insertion Loss (Max.)	0.63	0.73	0.88	1.2	1.27	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performace specifications of the coax used in this assembly. The Insertion Loss includes an estimated loss of 0.4dB of connector loss.

Mechanical Specifications

Cable Assembly

Length*

24 in [609.6 mm]

Diameter

0.315 in [8 mm]

Cable

Cable Type
Impedance
Inner Conductor Type

ET-LMR-100A
50 Ohms
Solid

Inner Conductor Material and Plating Copper Clad Steel

Dielectric Type

Number of Shields

2

Shield Layer 1
Shield Layer 2
Aluminum Tape
Tinned Copper Braid

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Jacket Material
PVC, Black
Jacket Diameter
0.11 in [2.79 mm]

One Time Minimum Bend Radius

Repeated Minimum Bend Radius

1 in [25.4 mm]

Bending Moment

7 In [25.4 mm]

10 Ibs-ft [0.14 N-m]

Tensile Strength

15 Ibs [6.8 Kg]

Connectors

Description	Connector 1	Connector 2 SMA Male Right Angle	
Туре	SMP Female Right Angle		
Specification	MIL-STD-348A	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
Connection Method	Push-On		
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold	
Contact Plating Specification	30μ in. minimum	50 μin minimum	
Dielectric Type	Teflon	PTFE	
Outer Conductor Material and Plating	Beryllium Copper, Gold		
Outer Conductor Plating Specification	3μ in. minimum		
Body Material and Plating	Brass, Gold	Brass, Nickel	
Body Plating Specification	3μ in. minimum	100 μin minimum	
Coupling Nut Material and Plating		Brass, Nickel	
Coupling Nut Plating Specification		100 μin minimum	
Hex Size		5/16 inch	
Torque		3 in-lbs [0.34 Nm]	

Mechanical Specification Notes:

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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^{*}All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.





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Length

Base Number

How to Order

Part Number Configuration:

ET3W05693/HS - xx uu

Unit of Measure:

cm = Centimeters

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Example: ET3W05693/HS-12 = 12 inches long cable

ET3W05693/HS-100cm = 100 cm long cable

Push-On SMP Female Right Angle to SMA Male Right Angle Cable 24 Inch Length Using ET-LMR-100 Coax with HeatShrink from Ebeestock 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Push-On SMP Female Right Angle to SMA Male Right Angle Cable 24 Inch Length Using LMR-100 Coax with HeatShrink ET32394

URL: https://www.ebeestock.com/push-on-smp-female-right-angle-to-sma-male-right-angle-cable-12-inch-length-using-lmr-100-coax-with-heatshrink-0032393

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