



## RF Cable Assemblies Technical Data Sheet

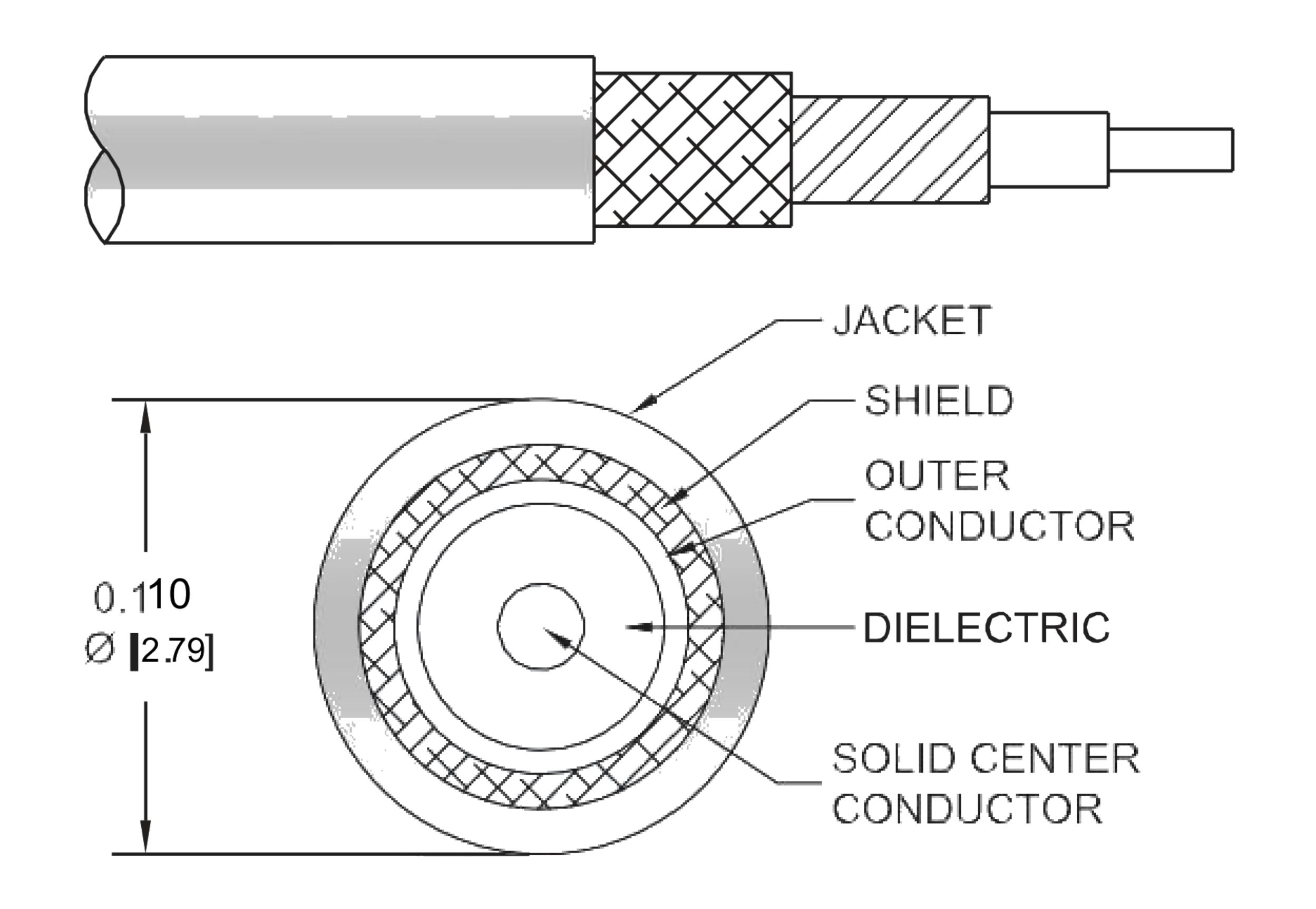
#### ET29725

# Configuration

Connector 1: QMA Male
Connector 2: N Male
Cable Type: ET-LMR-100A

## Features

- Max Frequency 1 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



# Applications

General Purpose

Laboratory Use

#### Description

Ebeestock's ET29725 QMA male to type N male 200 cm 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 QMA to type N cable assembly has a male to male gender configuration with 50 ohm flexible ET-LMR-100A coax. The ET29725 QMA male to type N male cable assembly operates to 1 GHz. 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: QMA Male to N Male Cable 200 cm Length Using ET-LMR-100 Coax with HeatShrink, LF Solder ET29725





#### RF Cable Assemblies Technical Data Sheet

ET29725

## Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
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	50	100	250	500	1,000	MHz
Insertion Loss (Max.)	0.54	0.66	0.94	1.29	1.78	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector Loss

## Mechanical Specifications

#### Cable Assembly

Length\* 78.74 in [200 cm]
Diameter 0.8 in [20.32 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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: QMA Male to N Male Cable 200 cm Length Using ET-LMR-100 Coax with HeatShrink, LF Solder ET29725





## RF Cable Assemblies Technical Data Sheet

ET29725

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 lat Plate Crush

Tensile Strength

0.25 in [6.35 mm]

1 in [25.4 mm]

0.1 lbs-ft [0.14 N-m]

10 lbs/in [0.18 Kg/mm]

15 lbs [6.8 Kg]

#### Connectors

Description	Connector 1	Connector 2	
Type	QMA Male	N Male	
Specification		MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
Mating Cycles	100		
Contact Material and Plating	Brass, Gold	Brass, Gold	
Contact Plating Specification		30 µin minimum	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating	Phosphor Bronze, Tri-Metal		
Body Material and Plating	Brass, Tri-Metal	Brass, Nickel	
Body Plating Specification		100 μin minimum	
Coupling Nut Material and Plating		Brass, Nickel	
Coupling Nut Plating Specification		100 μin minimum	

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:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: QMA Male to N Male Cable 200 cm Length Using ET-LMR-100 Coax with HeatShrink, LF Solder ET29725

<sup>\*</sup>All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.





Base Number

# RF Cable Assemblies Technical Data Sheet

ET29725

#### How to Order

Example: ET3W01151LF/HS-12 = 12 inches long cable

ET3W01151LF/HS-100cm = 100 cm long cable

QMA Male to N Male Cable 200 cm Length Using ET-LMR-100 Coax with HeatShrink, LF Solder 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: QMA Male to N Male Cable 200 cm Length Using ET-LMR-100 Coax with HeatShrink, LF Solder ET29725

**URL:** https://www.ebeestock.com/qma-male-to-n-male-cable-12-inch-length-using-lmr-100-coax-with-heatshrink-lf-solder-0029717

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Ebeestock reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Ebeestock does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Ebeestock does not assume any liability arising out of the use of any part or documentation.

