



RF Cable Assemblies Technical Data Sheet

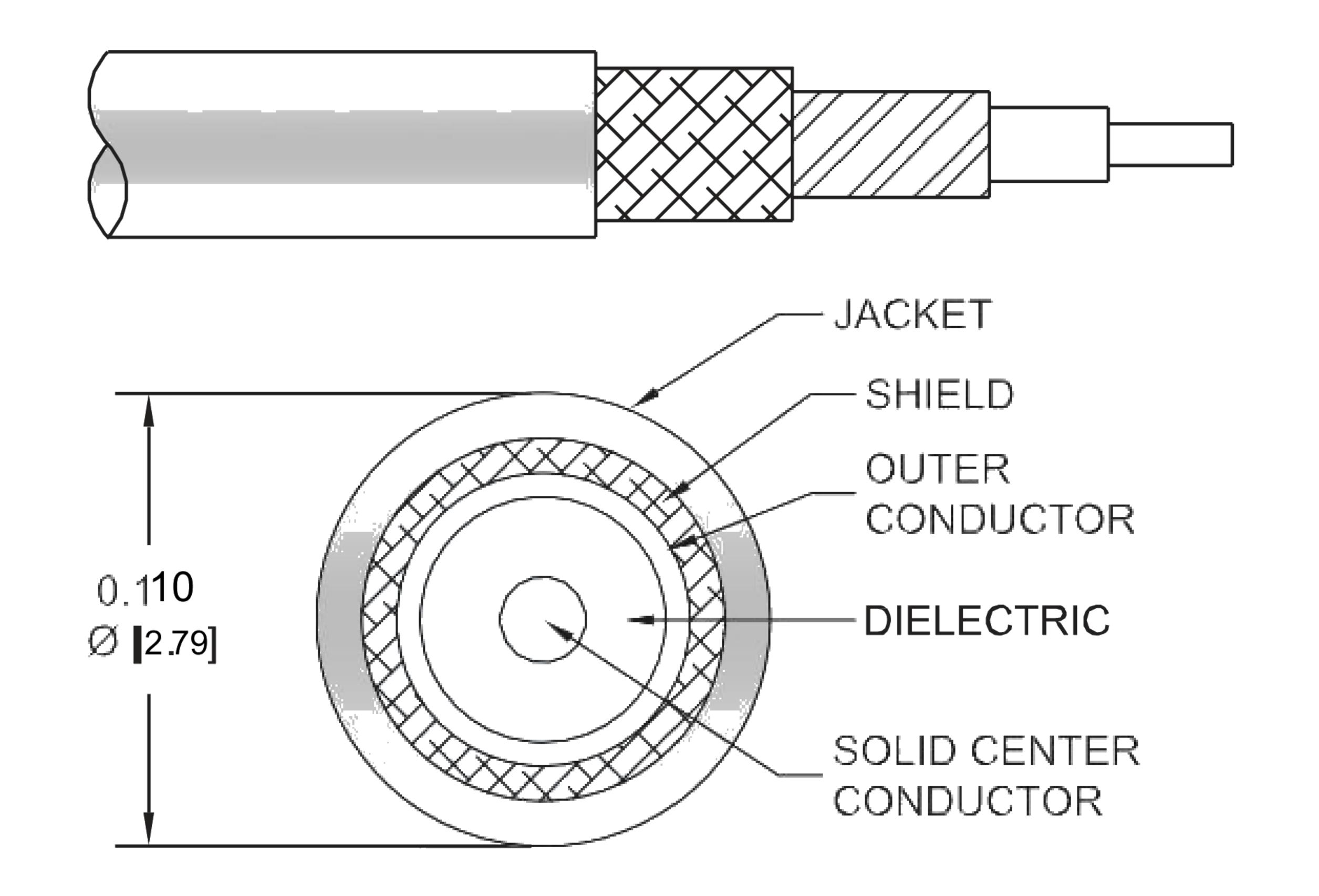
ET22738

Configuration

Connector 1: MCX Plug
Connector 2: FAKRA Jack
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 ET22738 MCX plug to black FAKRA jack 60 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 MCX to FAKRA cable assembly has a plug to jack gender configuration with 50 ohm flexible ET-LMR-100A coax. The ET22738 MCX plug to FAKRA jack cable assembly operates to 3 GHz. The double shielding of this Ebeestock cable assembly provides excellent shielding effectiveness of better than 90dB.

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: MCX Plug to Black FAKRA Jack Low Loss Cable 60 Inch Length Using ET-LMR-100 Coax with HeatShrink ET22738





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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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		9.5 [31.17]		Ω/1000ft [Ω/Km]
Operating Voltage (DC)			250	Vdc
Dielectric Withstanding Voltage (AC)			800	Vrms
Dielectric Withstanding Voltage (DC)			500	Vdc
Jacket Spark			2,000	Vrms
Input Power (Peak)			600	Watts

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.52	0.78	1.03	1.4	2.38	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector loss.

Mechanical Specifications

Cable Assembly

Length* 60 in [152.4 cm] Diameter 0.37 in [9.4 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

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Shield Layer 1
Shield Layer 2
Tinned Copper Braid
PVC, Black
Jacket Diameter

Aluminum Tape
Tinned Copper Braid
PVC, Black
0.11 in [2.79 mm]

One Time Minimum Bend Radius

Repeated Minimum Bend Radius

1 in [25.4 mm]

Bending Moment

7 lbs-ft [0.14 N-m]

Flat Plate Crush

Tensile Strength

15 lbs [6.8 Kg]

Connectors

Description	Connector 1	Connector 2	
Type	MCX Plug	FAKRA Jack	
Specification	CECC 22220		
Impedance	50 Ohms	50 Ohms	
Configuration	Straight	Straight	
Contact Material and Plating	Brass, Gold	Phosphor Bronze, Gold	
Contact Plating Specification	30 µin minimum		
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating		Brass, Nickel	
Body Material and Plating	Brass, Nickel	Plastic	
Body Plating Specification	100 μin minimum		

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C
Storage Range -70 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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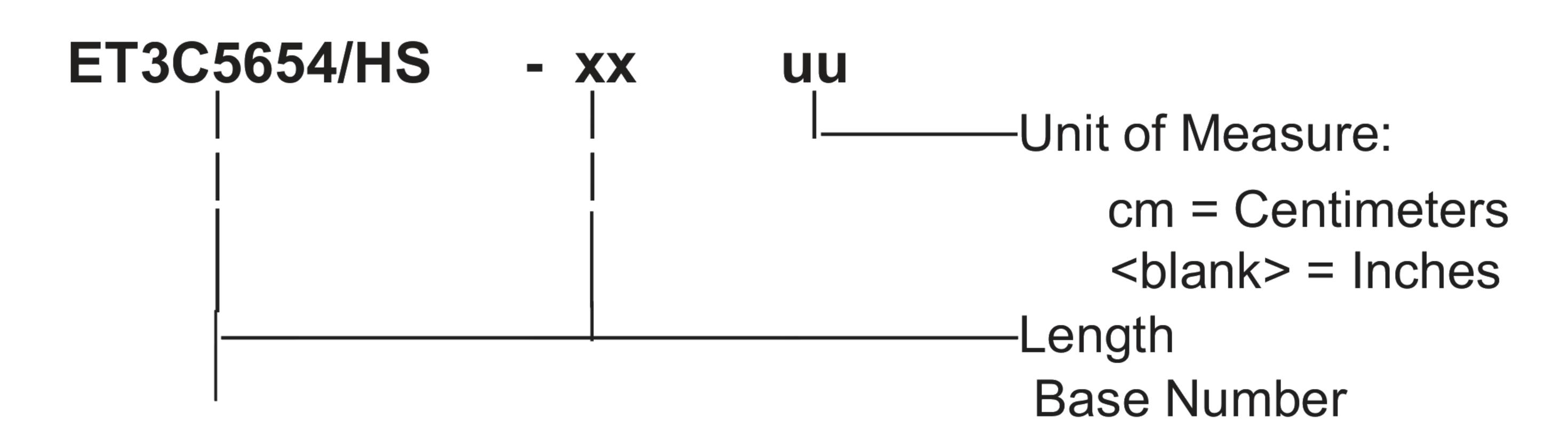


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How to Order

Part Number Configuration:



Example: ET3C5654/HS-12 = 12 inches long cable

ET3C5654/HS-100cm = 100 cm long cable

MCX Plug to Black FAKRA Jack Low Loss Cable 60 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.

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URL: https://www.ebeestock.com/mcx-plug-to-black-fakra-jack-low-loss-cable-12-inch-length-using -lmr-100-coax-with-heatshrink-0022734

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.

