



RF Cable Assemblies Technical Data Sheet

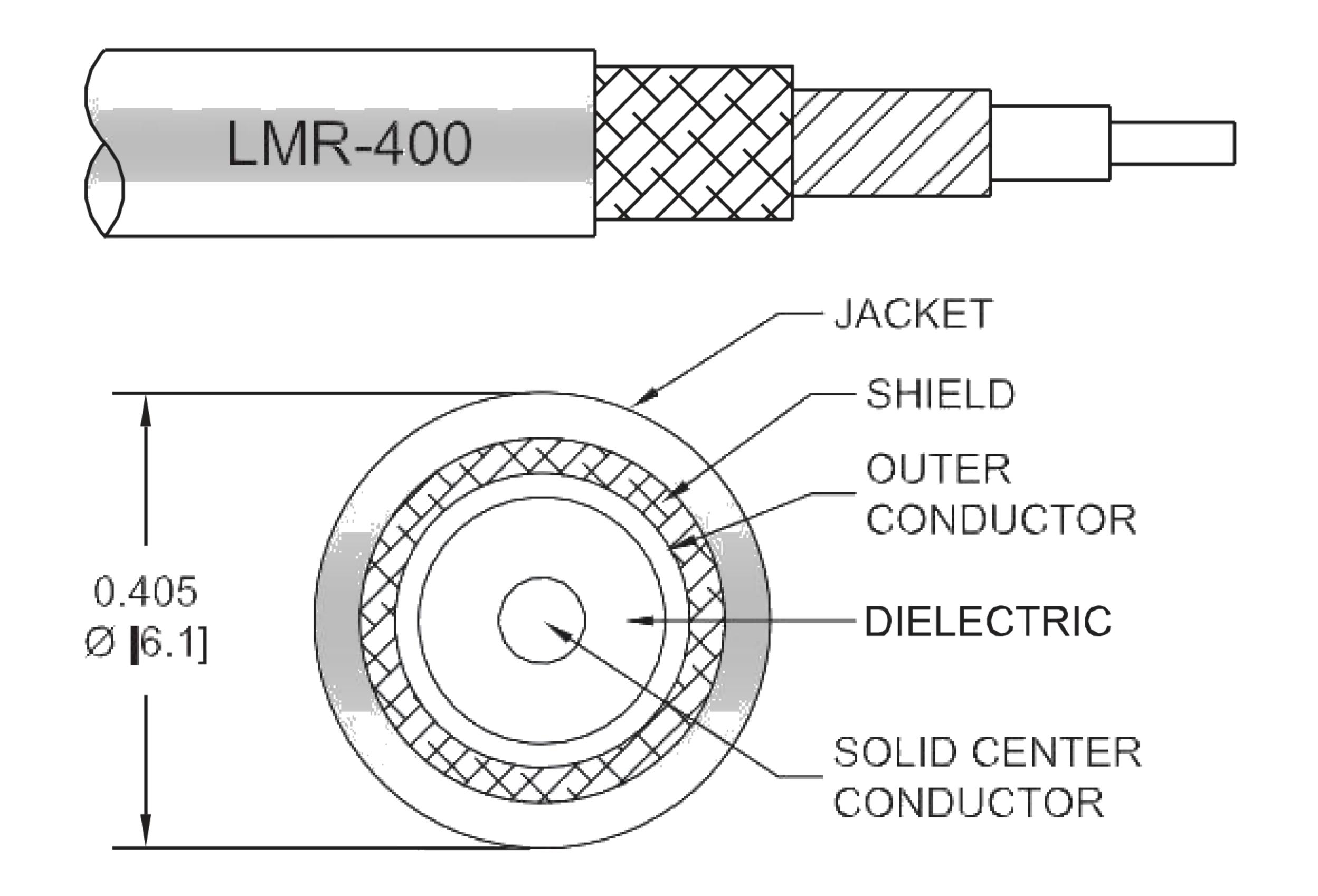
ET28521

Configuration

Connector 1: N Male
Connector 2: TNC Male
Cable Type: ET38378

Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket



Applications

General Purpose

Laboratory Use

Description

Ebeestock's ET28521 type N male to TNC male 50 cm cable using ET38378 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 type N to TNC cable assembly has a male to male gender configuration with 50 ohm flexible ET38378 coax. The ET28521 type N male to TNC male cable assembly operates to 5.8 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: N Male to TNC Male Cable Using ET38378 Coax In 50 CM Length ET28521

8th Floor, Building 1, Yongfu Science and Technology Center Industrial Park, Nanzha District 5, Humen,523900, Dongguan, Guangdong, China.





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		85		%
RF Shielding	90			dB
Group Delay		1.2 [3.94]		ns/ft[ns/m]
Capacitance		23.9 [78.41]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		1.39 [4.56]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ω/1000ft [Ω/Km]
Jacket Spark			8,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.14	0.19	0.27	0.43	0.66	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*SQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Length* 19.68 in [499.87 mm]
Weight 0.31 lbs [140.61 g]

Cable

Cable Type
Impedance
Inner Conductor Type

ET38378

50 Ohms
Solid

Inner Conductor Material and Plating Copper Clad Aluminum

Dielectric Type

Number of Shields

PE (F)

Shield Layer 1
Shield Layer 2
Aluminum Tape
Tinned Copper Braid

Jacket Material PE, Black

Jacket Diameter 0.405 in [10.29 mm]

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One Time Minimum Bend Radius Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength

1 in [25.4 mm] 4 in [101.6 mm] 0.5 lbs-ft [0.68 N-m] 40 lbs/in [0.71 Kg/mm] 160 lbs [72.57 Kg]

Connectors

Description	Connector 1	Connector 2	
Туре	N Male	TNC Male	
Impedance	50 Ohms	50 Ohms	
Mating Cycles		500	
Contact Material and Plating	Brass, Gold	Brass, Gold	
Contact Plating Specification	50μ in. minimum		
Dielectric Type	PTFE	PTFE	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	
Body Plating Specification	100μ in. minimum		
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	
Coupling Nut Plating Specification	100μ in. minimum		
Torque	18.417 ft-lbs [24.97 Nm]		

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.

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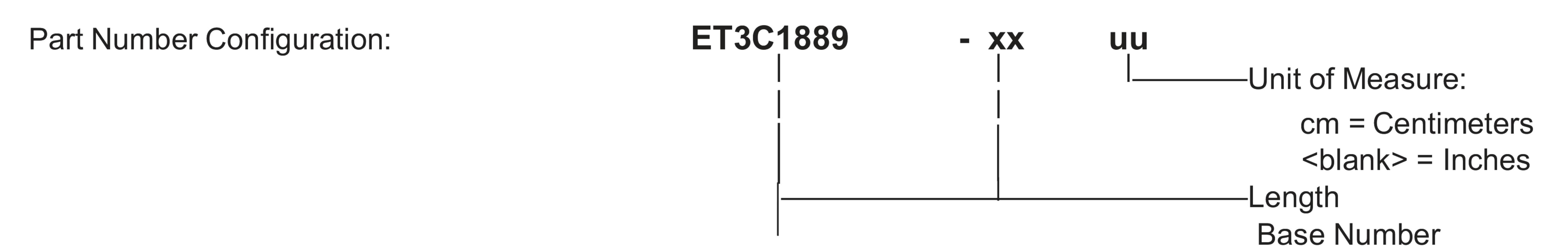




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How to Order



Example: ET3C1889-12 = 12 inches long cable ET3C1889-100cm = 100 cm long cable

N Male to TNC Male Cable Using ET38378 Coax In 50 CM Length 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/n-male-to-tnc-male-cable-using-lmr-400-coax-in-12-inch-length-00 28516

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.

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