



## RF Cable Assemblies Technical Data Sheet

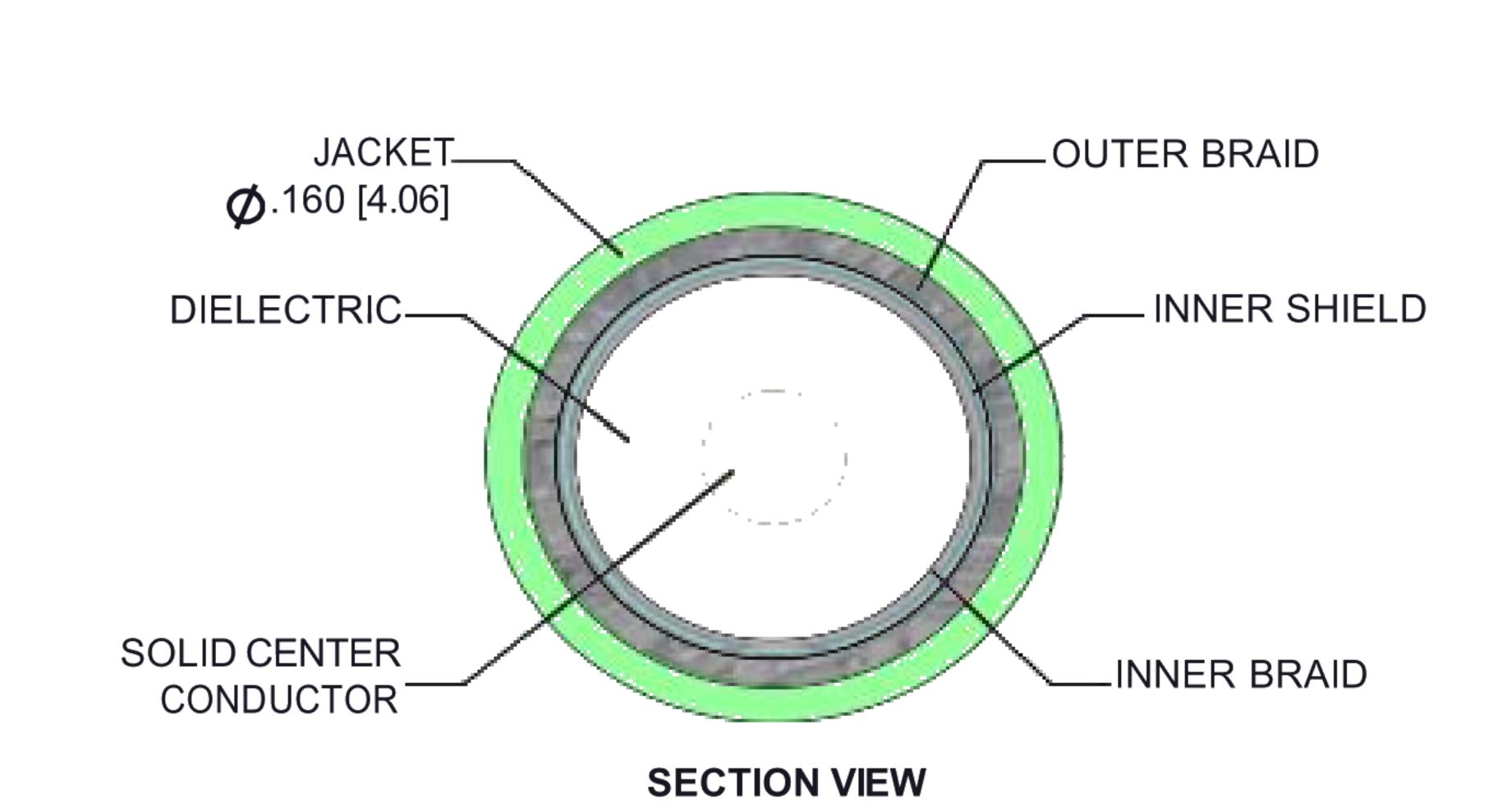
ET28824

## Configuration

Connector 1: N Male
Connector 2: SMA Male
Cable Type: ET-P160LL

#### Features

- Max Frequency 18 GHz
- Shielding Effectivity > 90 dB
- 82.5% Phase Velocity
- Triple Shielded
- FEP Jacket
- 0.8 inch Minimum Bend Radius
- Max VSWR of 1.35:1 to 18 GHz
- Same Day Shipment of Custom Lengths
- RoHS and REACH Compliant



## Applications

- General Purpose
- Laboratory Use

- Automated Test Systems
- Airborne Systems

- Phased Arrays
- EW and Countermeasures

### Description

The ET28824 N Male to SMA Male Low Loss cable assembly is part of a series of cable assemblies that use our ET-P160LL double shielded coax. The ET-P160LL based cable assemblies are available in a variety of connector configurations operating to a maximum frequency for this cable series of 18 GHz. The ET28824 high performance cable assembly with a 82.5% phase velocity offers very low loss performance in a 0.16 inch coax up to 18 GHz. The shielding effectiveness of the ET-P160LL double shielded coax is greater than 95 dB. The durable stainless steel connectors and FEP cable jacket provide a cost effective design ideal for test environments where a rugged cable assembly is required. A heavy duty heat shrink booting provides improved strain relief and adds to the durability of the cable assembly.

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 SMA Male Low Loss Cable 150 CM Length Using ET-P160LL Coax ET28824





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## Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.35:1	
Velocity of Propagation		82.5		%
RF Shielding	90			dB
Capacitance		25 [82.02]		pF/ft [pF/m]

## Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.57	0.82	1.25	1.79	2.6	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.04\*SQRT(F(GHz))dB maximum per connector.

#### Mechanical Specifications

#### Cable Assembly

∟ength\* 59.06 in [150.01 cm]

Cable

Cable Type ET-P160LL Impedance 50 Ohms Inner Conductor Type Solid Inner Conductor Material and Plating Copper, Silver

Dielectric Type Expanded PTFE Tape Number of Shields

Silver Plated Copper Shield Layer 1 Shield Layer 2 Aluminum Polyester Silver Plated Copper Shield Layer 3 Jacket Material FEP

Jacket Diameter 0.16 in [4.06 mm]

Repeated Minimum Bend Radius 0.8 in [20.32 mm]

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www.ebeestock.com

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





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#### Connectors

Description	Connector 1	Connector 2 SMA Male	
Туре	N Male		
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Contact Plating Specification	ASTM-B488	ASTM-B488	
Dielectric Type	PTFE	PTFE	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	

# **Environmental Specifications**

Temperature

Operating Range

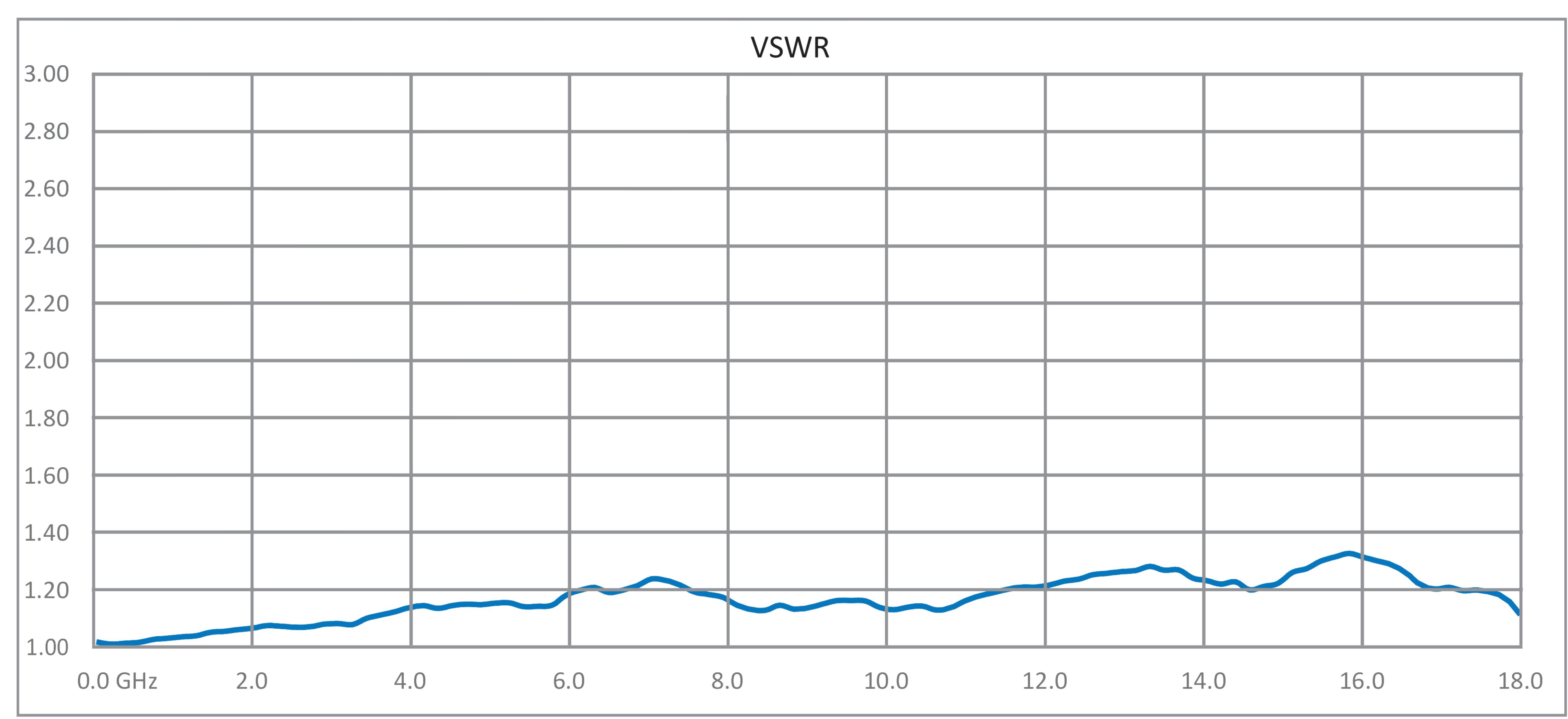
-55 to +165 deg C

Compliance Certifications (see product page for current document)

## Plotted and Other Data

Notes:

#### Typical Performance Data



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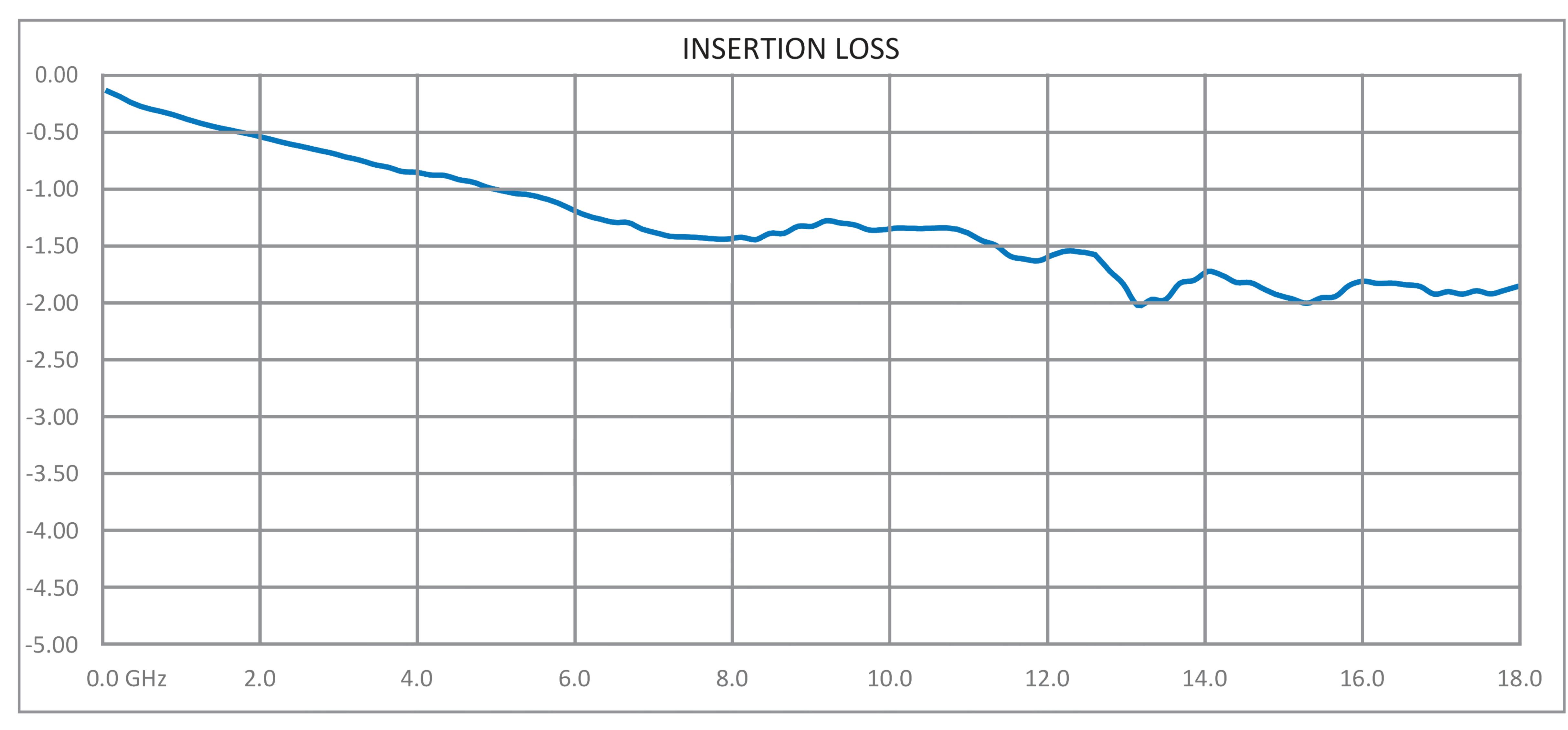
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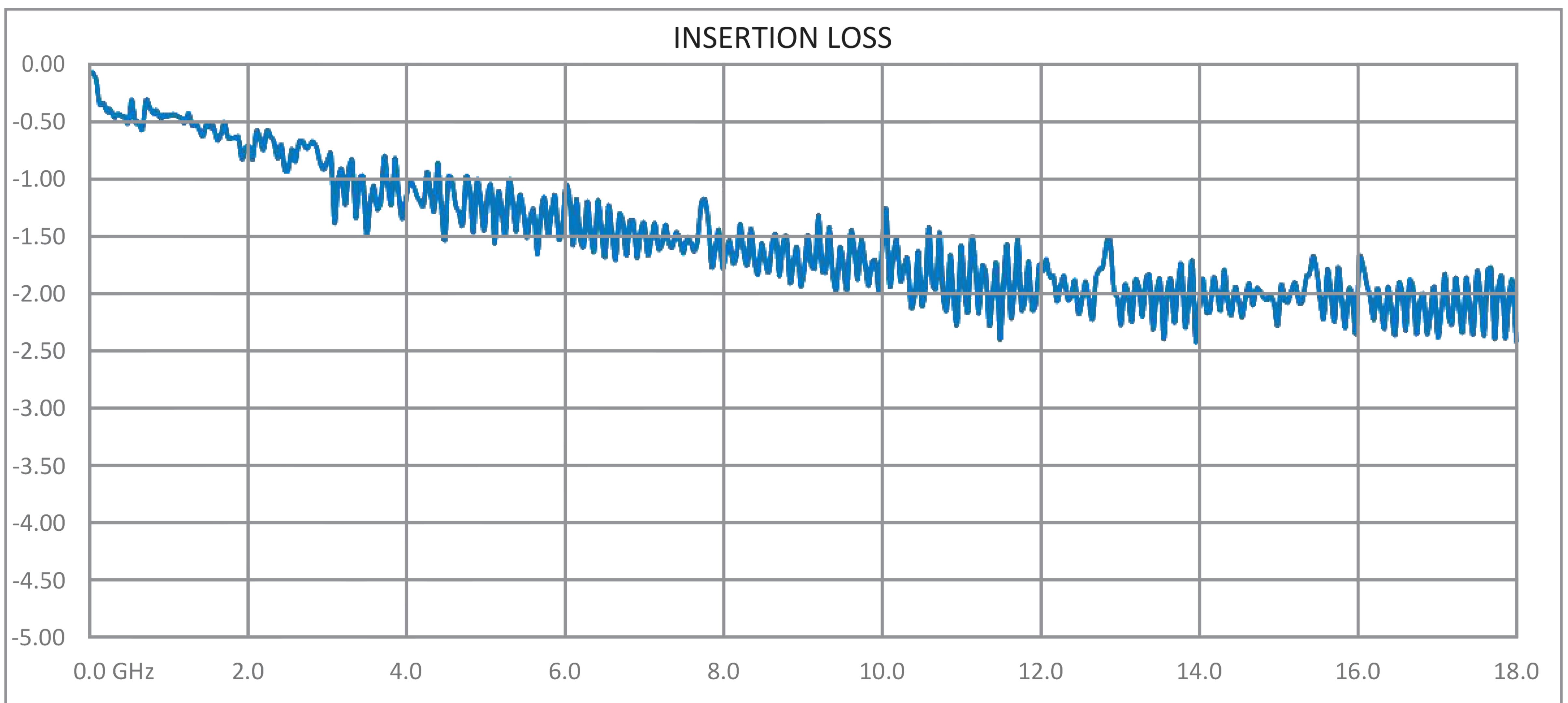




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#### How to Order

Example: ET3C5273-12 = 12 inches long cable ET3C5273-100cm = 100 cm long cable

N Male to SMA Male Low Loss Cable 150 CM Length Using ET-P160LL Coax 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: N Male to SMA Male Low Loss Cable 150 CM Length Using ET-P160LL Coax ET3C5273-150CM

**URL:** https://www.ebeestock.com/n-male-to-sma-male-low-loss-cable-12-inch-length-using-pe-p160ll -coax-0028817

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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