



RF Cable Assemblies Technical Data Sheet

ET13326

Configuration

• Connector 1: 1.85mm Male

 Connector 2: 1.85mm Male Right Angle Cable Type: ET-VNA-HF

Features

- Max Frequency 70 GHz
- Shielding Effectivity > 100 dB
- 78% Phase Velocity
- Triple Shielded
- Designed for use as VNA test port extenders
- Highly flexible armored cable construction 1.40:1 VSWR to 70 GHz
- Excellent amplitude and phase stability with flexure
- Non-conductive protective Nomex outer sleeve
- Each serialized assembly comes with test data
- In-stock and ready to ship same-day

Applications

- General Purpose
- Laboratory Use

- Vector Network analyzer test port extenders
- Semiconductor probe testing
- Precise bench-top testing
- Lab and production testing

Description

Ebeestock high performance high flex VNA test cables are designed to provide customers repeatable and accurate VNA measurements. These Test cables have excellent electrical properties including low Insertion Loss, low VSWR and phase stability of +/- 8° with flexure. The braided stainless steel armoring provides a rugged, but flexible cable with a life exceeding 100,000 flex cycles. The rugged connectors provide up to 5,000 mating cycles when attached with proper care. The flexibility of these cables makes it easier and safer to test your Device Under Test (DUT). When used with the appropriate calibration kit, these test cables effectively extend the test port of the VNA allowing for accurate measurements of devices that cannot be directly connected to a network analyzer test port.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 1.85mm Male to 1.85mm Male Right Angle Precision Cable 24 Inch Length Using High Flex VNA Test Coax ET13326





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		70	GHz
VSWR			1.4:1	
Velocity of Propagation		78		%
RF Shielding	100			dB
Group Delay		1.34 [4.4]		ns/ft [ns/m]
Capacitance		25.9 [84.97]		pF/ft [pF/m]
Input Power (Average)			18	Watts
Phase Stability with Flexure		8		Degrees

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	5	10	20	40	70	GHz
Insertion Loss (Max.)	1.36	1.76	2.4	3.3	4.5	dB
Power Handling (Max.)					18	W

Electrical Specification Notes: Values at 25°C, sea level.

Mechanical Specifications

Cable Assembly

Length* 24 in [609.6 mm] Weight 0.217 lbs [98.43 g]

Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type

ET-VNA-HF
50 Ohms
Solid
Copper, Silver
PTFE

Number of Shields
Shield Layer 1
Shield Layer 2
Shield Layer 3
Silver Plated Copper Braid
Silver Plated Copper Braid

Jacket Diameter 0.27 in [6.86 mm]

One Time Minimum Bend Radius 1 in [25.4 mm]

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Flat Plate Crush

317 lbs/in [5.66 Kg/mm]

Connectors

e 1.85mm Male Right Angle 50 Ohms
50 Ohms
, Gold Beryllium Copper, Gold
ULTEM
Passivated Stainless Steel
ss Steel Passivated Stainless Steel
ss Steel

Mechanical Specification Notes:

Environmental Specifications

Temperature

Operating Range

-65 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.

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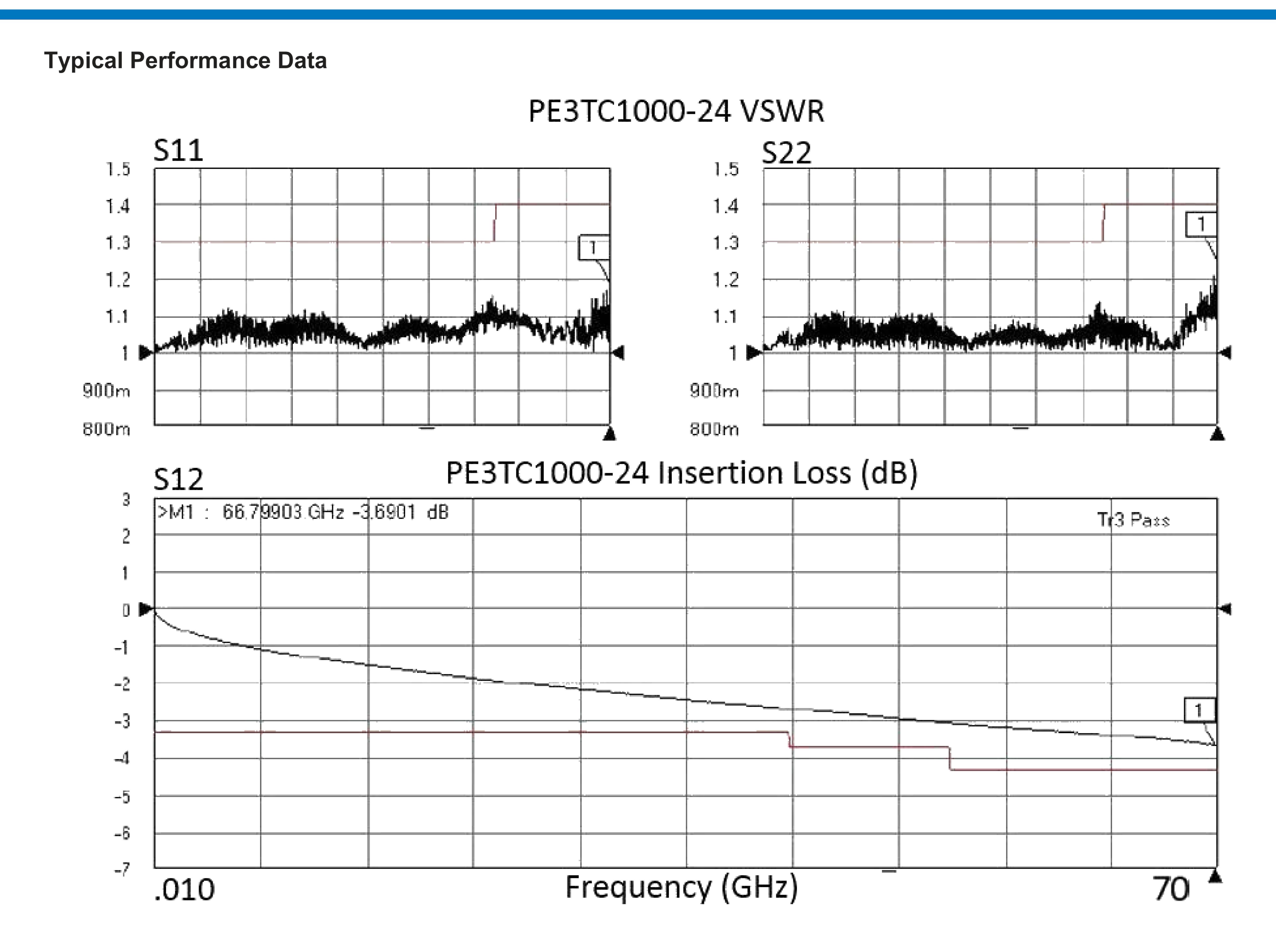
^{*}All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.





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How to Order

ET3TC1000 Part Number Configuration: - XX -Unit of Measure: cm = Centimeters <black> = Inches Length Base Number

ET3TC1000-12 = 12 inches long cable Example: ET3TC1000-100cm = 100 cm long cable

1.85mm Male to 1.85mm Male Right Angle Precision Cable 24 Inch Length Using High Flex VNA Test 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.

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URL: https://www.ebeestock.com/1-85mm-male-to-1-85mm-male-right-angle-precision-cable-24-inch-l ength-using-high-flex-vna-test-coax-0013326

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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