



RF Cable Assemblies Technical Data Sheet

ET13323

Configuration

Connector 1: 1.85mm Male
Connector 2: 1.85mm Female
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
- Excellent amplitude and phase stability with flexure
- Non-conductive protective Nomex outersleeve
- 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 Female Precision Cable 48 Inch Length Using High Flex VNA Test Coax ET13323





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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		Degrees		

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	5	10	20	40	50	GHz
Insertion Loss (Max.)	2.32	3.12	4.4	6.2	7.04	dB
Power Handling (Max.)					18	W

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

Mechanical Specifications

Cable Assembly

Length* 48 in [121.92 cm] Weight 0.321 lbs [145.6 g]

Cable

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

PTFE Dielectric Type Number of Shields

Silver Plated Copper Tape Shield Layer 1 Silver Plated Copper Braid Shield Layer 2 Silver Plated Copper Braid Shield Layer 3

Jacket Diameter 0.27 in [6.86 mm]

One Time Minimum Bend Radius 1 in [25.4 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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Flat Plate Crush

317 lbs/in [5.66 Kg/mm]

Connectors

Connector 1	Connector 2		
1.85mm Male	1.85mm Female		
50 Ohms	50 Ohms		
Beryllium Copper, Gold	Beryllium Copper, Gold		
ULTEM	ULTEM		
	Passivated Stainless Steel		
Passivated Stainless Steel	Passivated Stainless Steel		
Passivated Stainless Steel			
8 in-lbs [0.9 Nm]			
	1.85mm Male 50 Ohms Beryllium Copper, Gold ULTEM Passivated Stainless Steel Passivated Stainless 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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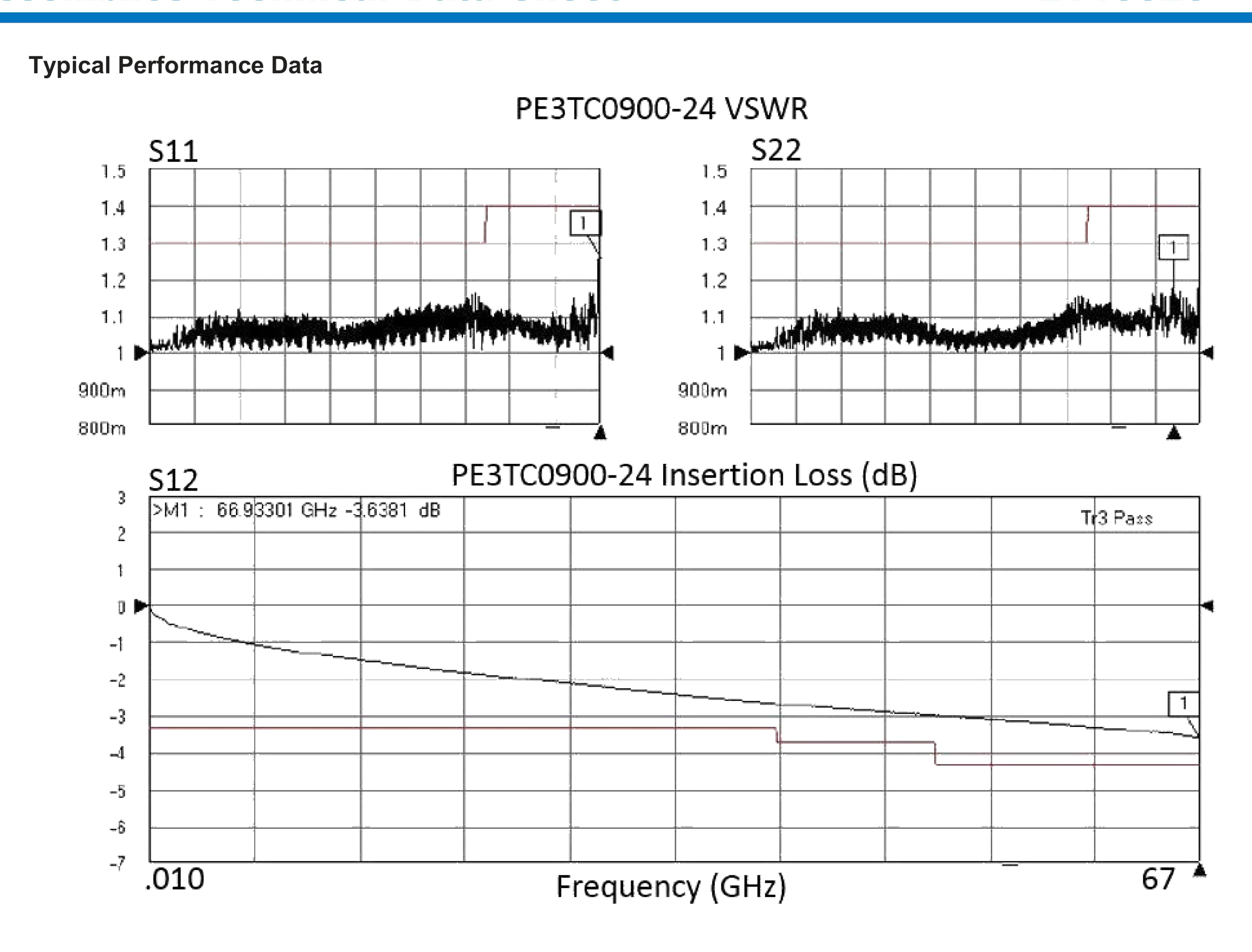
^{*}All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.





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How to Order

Example: ET3TC0900-12 = 12 inches long cable

ET3TC0900-100cm = 100 cm long cable

1.85mm Male to 1.85mm Female Precision Cable 48 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-female-precision-cable-24-inch-length-usin g-high-flex-vna-test-coax-0013321

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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