



RF Cable Assemblies Technical Data Sheet

ET13322

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 outer sleeve
- 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 36 Inch Length Using High Flex VNA Test Coax ET13322





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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	40	50	70			GHz
Insertion Loss (Max.)	4.75	5.38	6.5			dB
Power Handling (Max.)			18			W

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

Mechanical Specifications

Cable Assembly

Length* 36 in [914.4 mm]
Weight 0.218 lbs [98.88 g]

Cable

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

Flat Plate Crush 317 lbs/in [5.66 Kg/mm]

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Connectors

Description	Connector 1	Connector 2		
Type	1.85mm Male	1.85mm Female		
Impedance	50 Ohms	50 Ohms		
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Dielectric Type	ULTEM	ULTEM		
Outer Conductor Material and Plating		Passivated Stainless Steel		
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel		
Coupling Nut Material and Plating	Passivated Stainless Steel			
Torque	8 in-lbs [0.9 Nm]			

Environmental Specifications

Temperature

Operating Range

-65 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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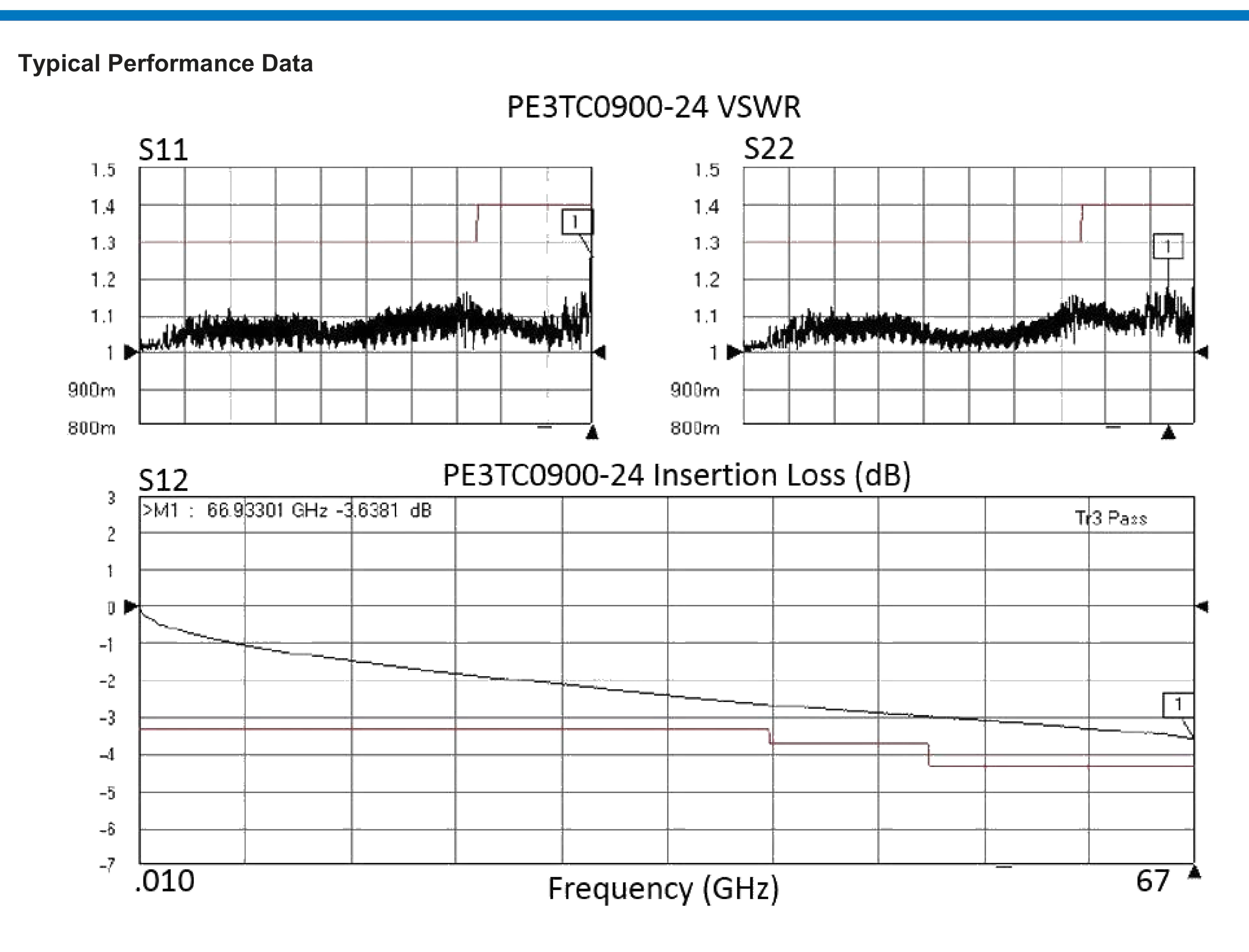
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How to Order

Example: ET3TC0900-12 = 12 inches long cable

ET3TC0900-100cm = 100 cm long cable

1.85mm Male to 1.85mm Female Precision Cable 36 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

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