

1.85mm Male to 1.85mm Male Precision Cable 24 Inch Length Using High Flex VNA Test Coax



RF Cable Assemblies Technical Data Sheet

ET13318

Configuration

Connector 1: 1.85mm Male
Connector 2: 1.85mm Male
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 67 GHz
- 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's ET13318 1.85mm male to 1.85mm male precision 24 inch cable using high flex VNA test 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 1.85mm to 1.85mm cable assembly has a male to male gender configuration with 50 ohm flexible ET-VNA-HF coax. The ET13318 1.85mm male to 1.85mm male cable assembly operates to 70 GHz. The triple shielding of this Ebeestock cable assembly provides excellent shielding effectiveness of better than 100 dB. 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.

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: 1.85mm Male to 1.85mm Male Precision Cable 24 Inch Length Using High Flex VNA Test Coax ET13318



1.85mm Male to 1.85mm Male Precision Cable 24 Inch Length Us ing High Flex VNA Test Coax



RF Cable Assemblies Technical Data Sheet

ET13318

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	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 0.21 lbs [95.25 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]

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 Precision Cable 24 Inch Length Using High Flex VNA Test Coax ET13318

www.ebeestock.com



1.85mm Male to 1.85mm Male Precision Cable 24 Inch Length Us ing High Flex VNA Test Coax



RF Cable Assemblies Technical Data Sheet

ET13318

Flat Plate Crush

317 lbs/in [5.66 Kg/mm]

Connectors

Connector 1	Connector 2 1.85mm Male	
1.85mm Male		
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]	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.

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 Precision Cable 24 Inch Length Using High Flex VNA Test Coax ET13318

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

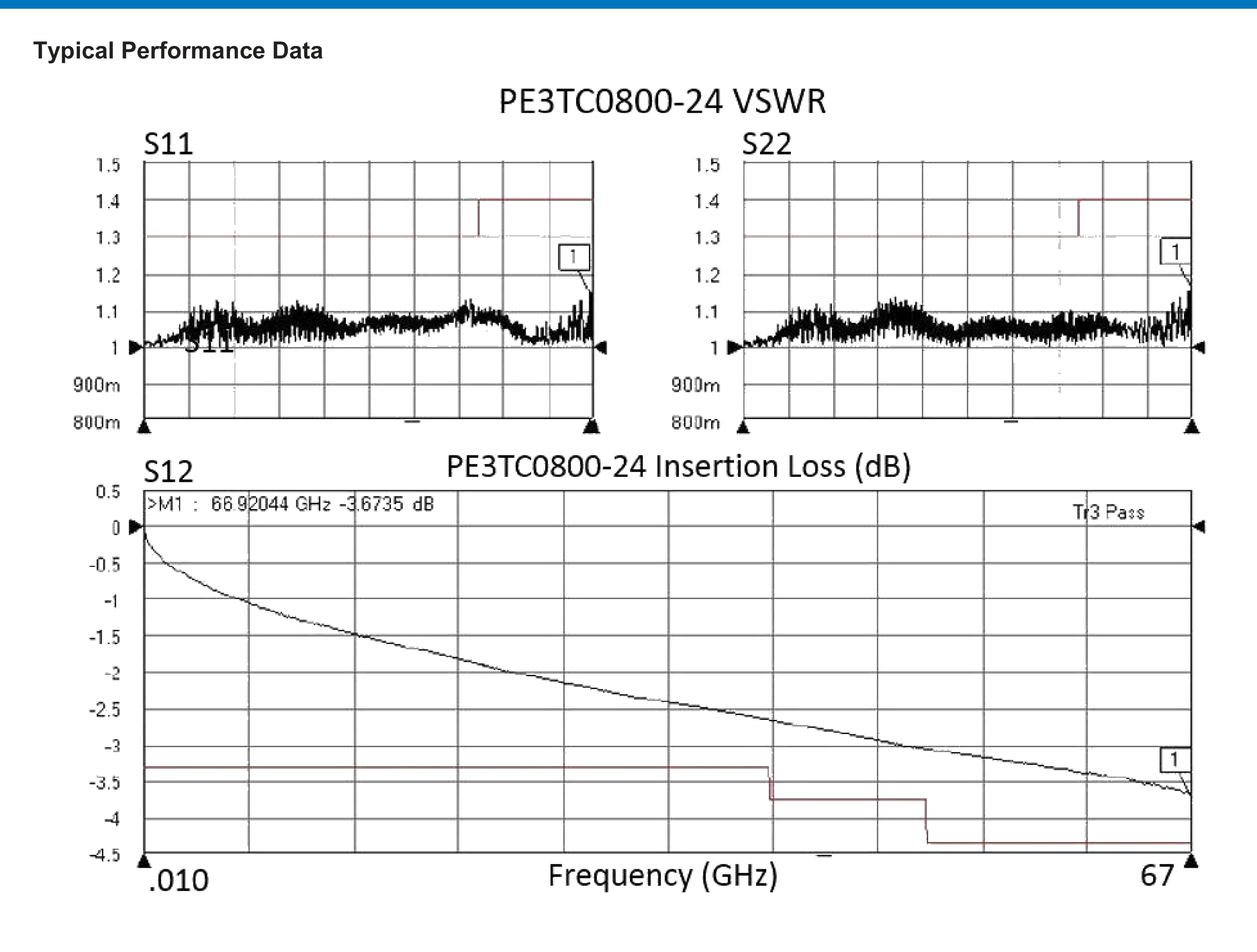


1.85mm Male to 1.85mm Male Precision Cable 24 Inch Length Us ing High Flex VNA Test Coax



RF Cable Assemblies Technical Data Sheet

ET13318



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 Precision Cable 24 Inch Length Using High Flex VNA Test Coax ET13318



1.85mm Male to 1.85mm Male Precision Cable 24 Inch Length Using High Flex VNA Test Coax



RF Cable Assemblies Technical Data Sheet

ET13318

How to Order

Example: ET3TC0800-12 = 12 inches long cable

ET3TC0800-100cm = 100 cm long cable

1.85mm Male to 1.85mm Male 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.

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 Precision Cable 24 Inch Length Using High Flex VNA Test Coax ET13318

URL: https://www.ebeestock.com/1-85mm-male-to-1-85mm-male-precision-cable-24-inch-length-using-high-flex-vna-test-coax-0013318

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.

