



RF Cable Assemblies Technical Data Sheet

ET32531

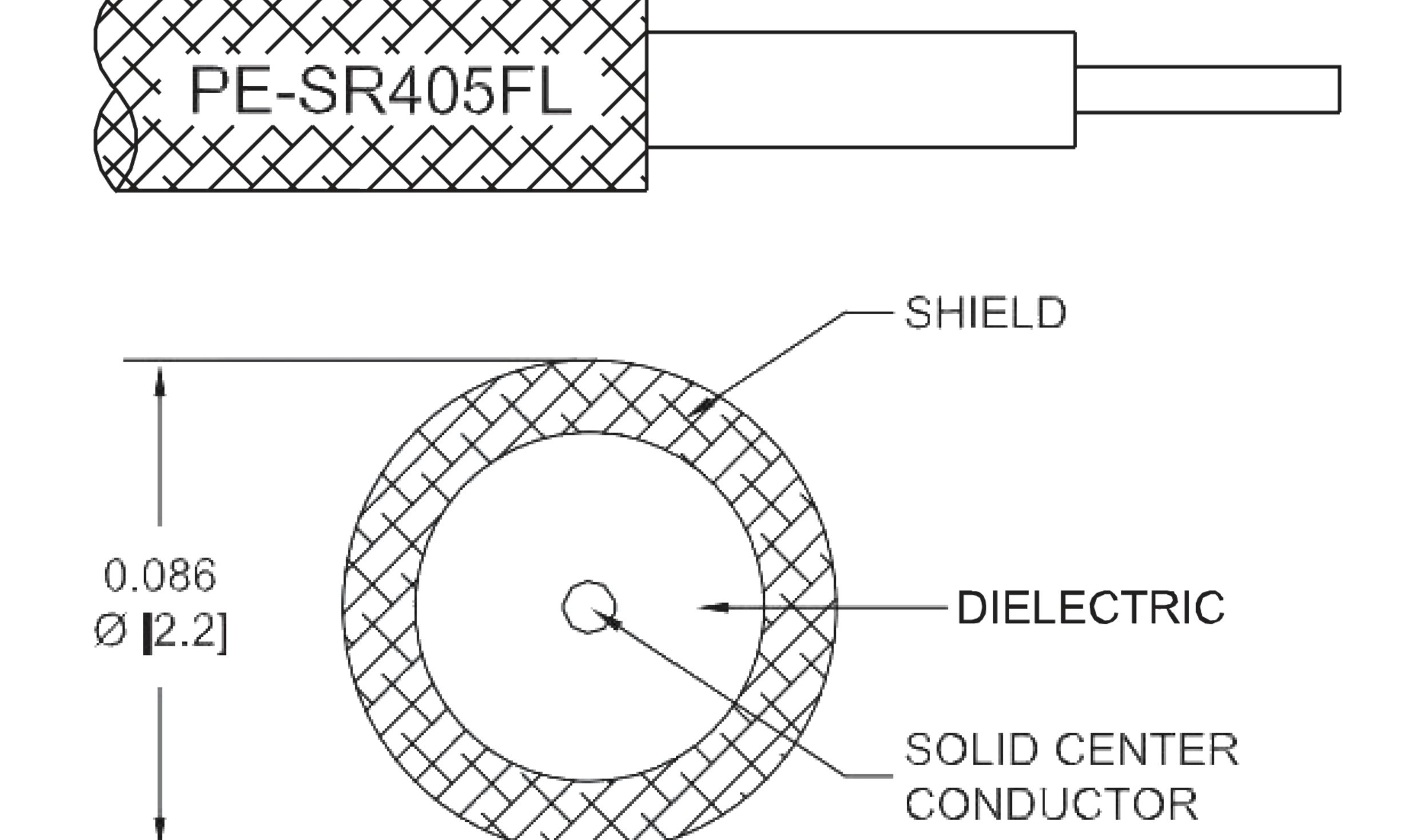
Configuration

Connector 1: TNC Female Bulkhead
 Connector 2: SMP Female Right Angle

Cable Type: ET38322

Features

- Max Frequency 6 GHz
- 69.5% Phase Velocity



Applications

General Purpose

Laboratory Use

Description

Ebeestock's ET32531 TNC female bulkhead to SMP female right angle 48 inch cable using ET38322 coax is part of our full line of RF components available for same-day shipping. Ebeestock's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Ebeestock TNC to SMP cable assembly has a female to female gender configuration with 50 ohm formable ET38322 coax. The ET32531 TNC female to SMP female cable assembly operates to 6 GHz. The right angle SMP interface on the ET38322 cable allows for easier connections in tight spaces. Our RF cable assembly with TNC bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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: TNC Female Bulkhead to SMP Female Right Angle Cable 48 Inch Length Using ET38322 Coax ET32531





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		65.7 [215.55]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ω/1000ft [Ω/Km]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	6	GHz
Insertion Loss (Typ.)	0.57	0.85	1.15	1.64	2.66	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated 0.15 dB for the right angle connector and 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Length* 48 in [121.92 cm]
Diameter 0.69 in [17.53 mm]

Cable

Cable Type
Impedance
Inner Conductor Type

ET38322

50 Ohms
Solid

Inner Conductor Material and Plating

Copper Clad Steel, Silver

Dielectric Type

Number of Shields

1

Outer Conductor Material and Plating Copper, Tin

Repeated Minimum Bend Radius 0.78 in [19.81 mm]

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Connectors

Description	Connector 1	Connector 2 SMP Female Right Angle	
Туре	TNC Female Bulkhead		
Specification		MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold	
Contact Plating Specification		MIL-DTL-45204	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating		Beryllium Copper, Gold	
Outer Conductor Plating Specification		MIL-DTL-45204	
Body Material and Plating	Brass, Nickel	Beryllium Copper, Gold	
Body Plating Specification		MIL-DTL-45204	

Environmental Specifications

Temperature

Operating Range

-55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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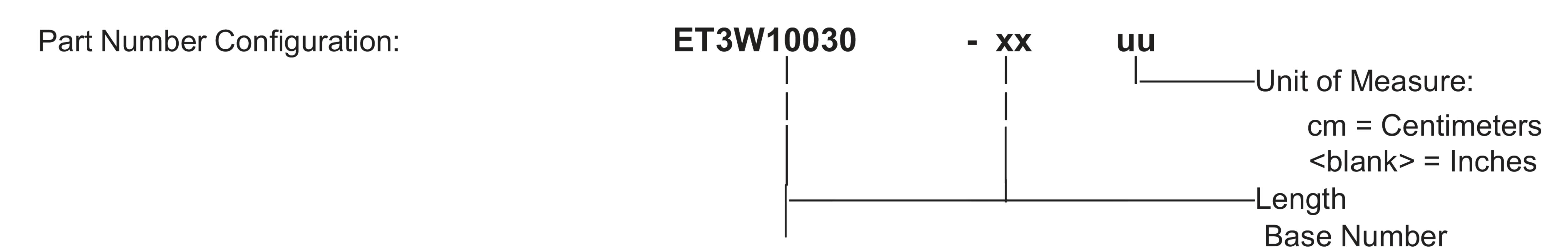




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How to Order



Example: ET3W10030-12 = 12 inches long cable


ET3W10030-100cm = 100 cm long cable

TNC Female Bulkhead to SMP Female Right Angle Cable 48 Inch Length Using ET38322 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: TNC Female Bulkhead to SMP Female Right Angle Cable 48 Inch Length Using ET38322 Coax ET32531

URL: https://www.ebeestock.com/tnc-female-bulkhead-to-smp-female-right-angle-cable-12-inch-leng th-using-pe-sr405fl-coax-0032528

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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