



RF Cable Assemblies Technical Data Sheet

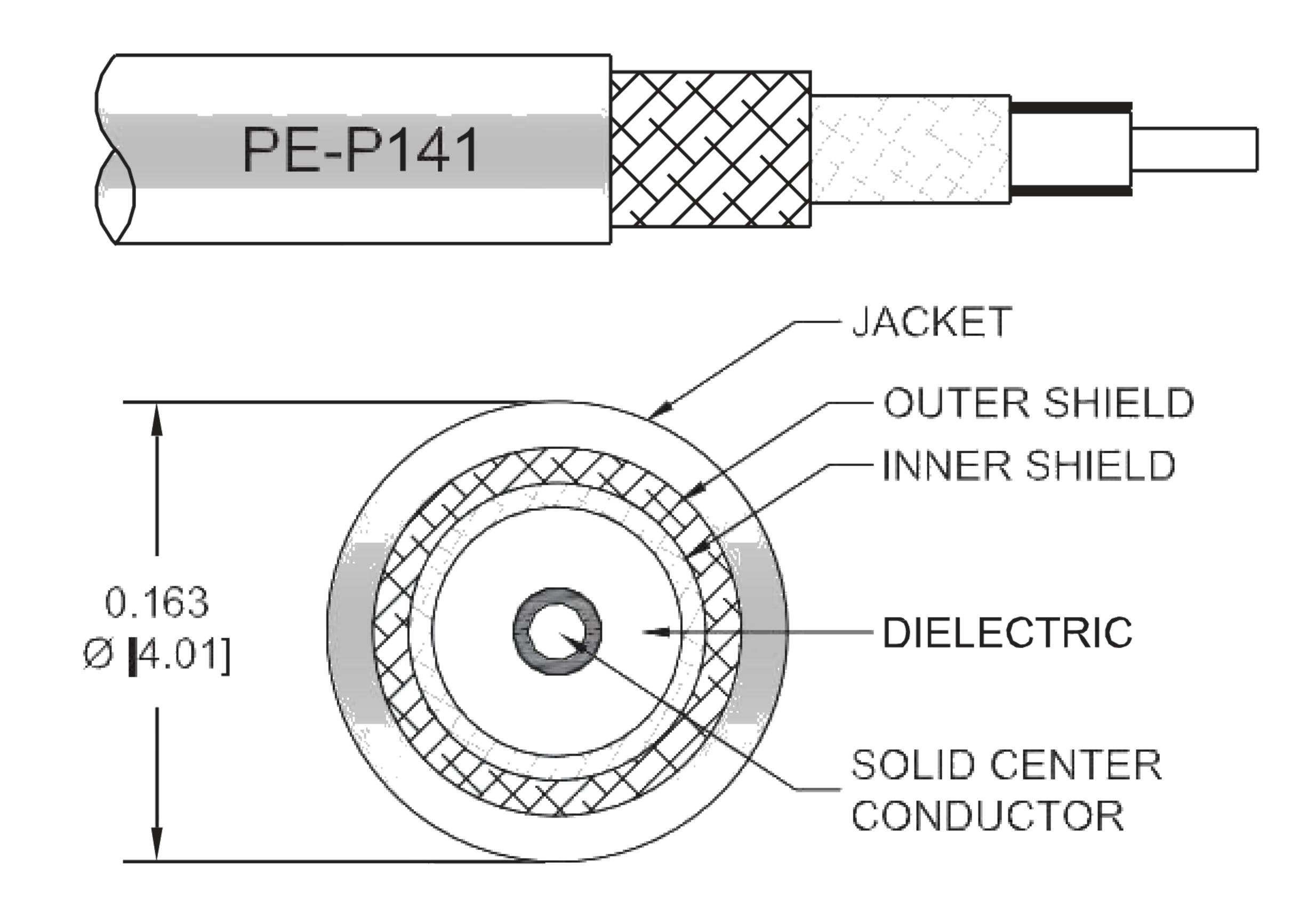
ET29645

Configuration

Connector 1: SMA Male
Connector 2: N Male
Cable Type: ET38343

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 110 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket
- 160 series, ET38343 Spiral Strip flexible coax



Applications

General Purpose

Laboratory Use

Description

Ebeestock's ET29645 SMA male to type N male 24 inch cable using ET38343 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 SMA to type N cable assembly has a male to male gender configuration with 50 ohm flexible ET38343 coax. The ET29645 SMA male to type N male cable assembly operates to 18 GHz. The double shielding of this Ebeestock cable assembly provides excellent shielding effectiveness of better than 110 dB.

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: SMA Male to N Male Cable 24 Inch Length Using ET38343 Coax with HeatShrink, LF Solder ET29645





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ET29645

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range | DC | | 18 | GHz |
| VSWR | | | 1.35:1 | |
| Velocity of Propagation | | 70 | | % |
| RF Shielding | 110 | | | dB |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|-----|------|-----|------|-------|
| Frequency | 1 | 3 | 5 | 10 | 18 | GHz |
| Insertion Loss (Typ.) | 0.22 | 0.4 | 0.52 | 0.8 | 1.16 | dB |

Electrical Specification Notes:

Insertion loss does not include the loss of the connectors.

Insertion loss is estimated as 0.05 x sqrt(fGHz) dB per connector.

Short lengths up to 12" long may exhibit VSWR measurements up to 9% higher.

Amplitude variation not to exceed 10% in a coiled vs uncoiled, a coil is defined as a 4% loop.

Mechanical Specifications

Cable Assembly

Length* 24 in [609.6 mm] Weight 0.163 lbs [73.94 g]

Cable

Cable Type
Impedance
Inner Conductor Type

ET38343

Solid

Inner Conductor Material and Plating Copper Clad Steel, Silver

Dielectric Type
Number of Shields
2

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

Jacket Material FEP, Blue

Jacket Diameter 0.163 in [4.14 mm]

Repeated Minimum Bend Radius 0.82 in [20.83 mm]

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Connectors

| Description | Connector 1 | Connector 2 | | |
|-----------------------------------|----------------------------|----------------------------|--|--|
| Туре | SMA Male | N Male | | |
| Impedance | 50 Ohms | 50 Ohms | | |
| Contact Material and Plating | Gold | Gold | | |
| Dielectric Type | PTFE | PTFE | | |
| Body Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel | | |
| Coupling Nut Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel | | |
| Hex Size | 5/16 inch | 13/16 inch | | |
| Torque | 8 in-lbs [0.9 Nm] | 15 in-lbs [1.7 Nm] | | |

Mechanical Specification Notes:

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.



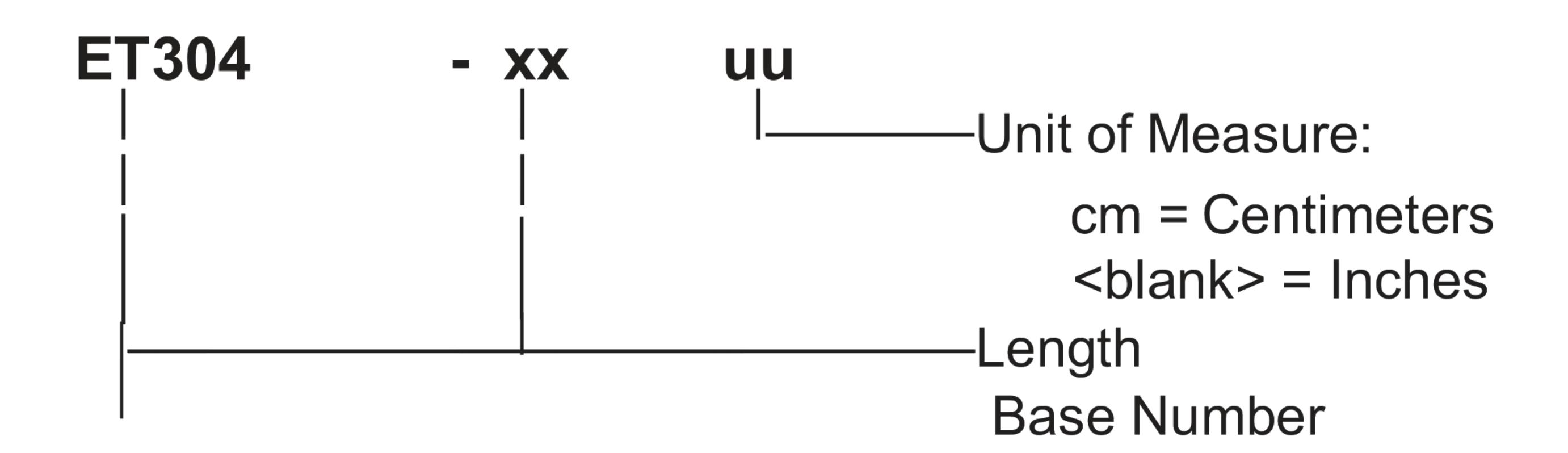


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How to Order

Part Number Configuration:



Example: ET304-12 = 12 inches long cable

ET304-100cm = 100 cm long cable

SMA Male to N Male Cable 24 Inch Length Using ET38343 Coax with HeatShrink, LF Solder 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/sma-male-to-n-male-cable-12-inch-length-using-pe-p141-coax-with-heatshrink-lf-solder-0029644

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.

ET29645 CAD Drawing

SMA Male to N Male Cable 24 Inch Length Using ET-P141 Coax with HeatShrink, LF Solder

