PASTERNACK®
THE ENGINEER'S RF SOURCE

# SMB Plug Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch



## RF Connectors Technical Data Sheet PE4052

## Configuration

- SMB Plug Connector
- MIL-STD-348A
- 50 Ohms
- Right Angle Body Geometry
- RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch Interface Type
- Crimp/Solder Attachment

## Features

- Max. Operating Frequency 4 GHz
- Good VSWR of 1.3:1
- Gold Plated Beryllium Copper Contact
- 30 µin minimum contact plating

## Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE4052 SMB plug right angle connector with crimp/solder attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100 and .100 inch is part of our full line of RF components available for same-day shipping. Our SMB plug connector operates up to a maximum frequency of 4 GHz and offers good VSWR of 1.3:1. Its right angle body geometry allows for easier connections in tight spaces.

Our SMB plug right angle connector PE4052 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 4 | GHz |
| VSWR | | | 1.3:1 | |
| Operating Voltage (AC) | | | 250 | Vrms |

### Mechanical Specifications

**Size**

| | |
|---|---|
| Length | 0.622 in [15.8 mm] |
| Width/Dia. | 0.256 in [6.50 mm] |
| Height | 0.528 in [13.41 mm] |
| Weight | 0.012 lbs [5.44 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMB Plug Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch PE4052

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# SMB Plug Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch



## RF Connectors Technical Data Sheet PE4052

### Material Specifications

| Description | Material | Plating |
|---|---|---|
| Contact | Beryllium Copper | Gold<br>30 µin minimum |
| Insulation | PTFE | |
| Outer Conductor | Brass | Nickel<br>100 µin minimum |
| Body | Brass | Nickel<br>100 µin minimum |

### Environmental Specifications

**Temperature**

| | |
|---|---|
| Operating Range | -65 to +165 deg C |

### Compliance Certifications (see product page for current document)

### Plotted and Other Data

Notes:

SMB Plug Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch from Pasternack 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: SMB Plug Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch PE4052

URL: https://www.pasternack.com/smb-plug-standard-rg174-rg316-rg188-connector-pe4052-p.aspx

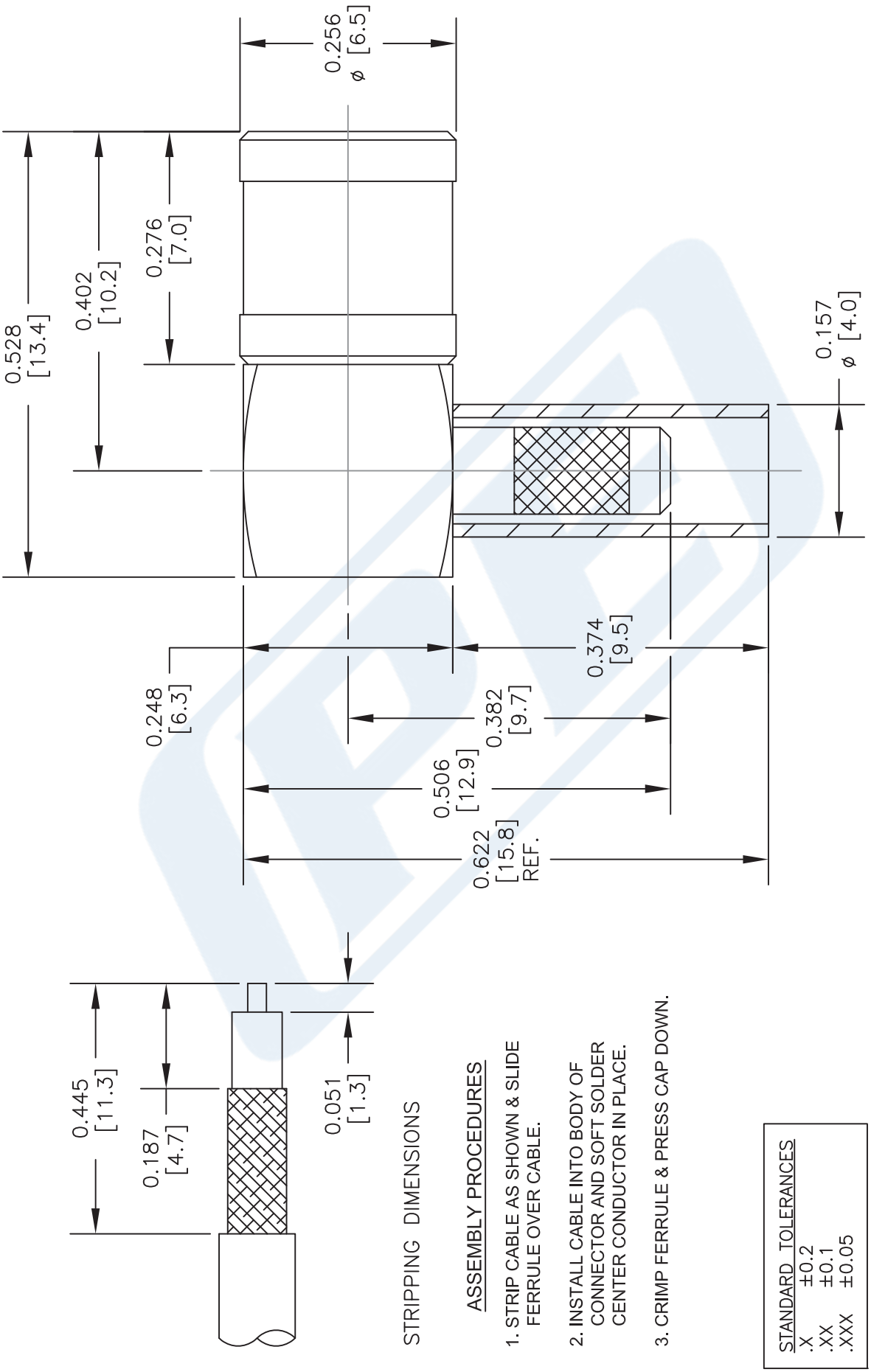
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# PE4052 CAD Drawing

SMB Plug Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch




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# TNC Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100

## RF Connectors
## Technical Data Sheet

**PE4462**

## Configuration

- TNC Female Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG174, RG316, RG188, PE-B100, PE-C100, .100 inch, LMR-100

## Features

- Gold Plated Brass Contact

## Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE4462 , TNC, Standard, Connector is part of our full line of RF components available for same-day shipping.

Our TNC female connector PE4462 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

| | | |
|---|---|---|
| Impedance | 50 | Ohms |

### Mechanical Specifications

**Size**

| | |
|---|---|
| Length | 1.28 in [32.56 mm] |
| Width | 0.45 in [11.43 mm] |
| Height | 0.00 in [0.00 mm] |
| Weight | 0.02 lbs [8.16 g] |

**Material Specifications**

| Description | Material | Plating |
|---|---|---|
| Contact | Brass | Gold |
| Insulation | PTFE | |
| Body | Brass | Nickel |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: TNC Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100 PE4462

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# TNC Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100



## Environmental Specifications

**Compliance Certifications** (see product page for current document)

## Plotted and Other Data

Notes:

TNC Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100 from Pasternack 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 Connector Crimp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100 PE4462

URL: https://www.pasternack.com/tnc-female-standard-rg174-rg316-rg188-connector-pe4462-p.aspx

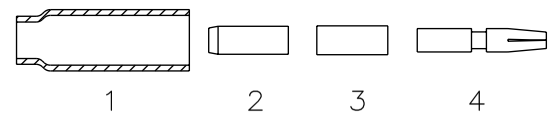
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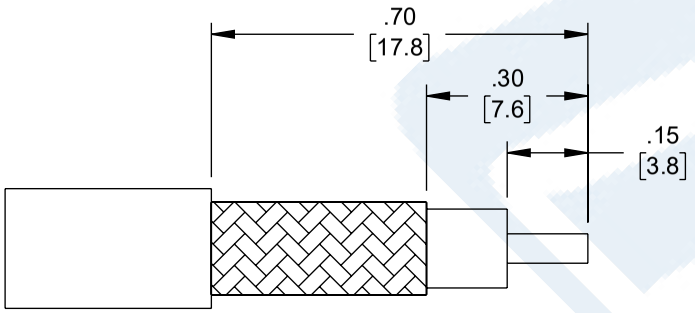
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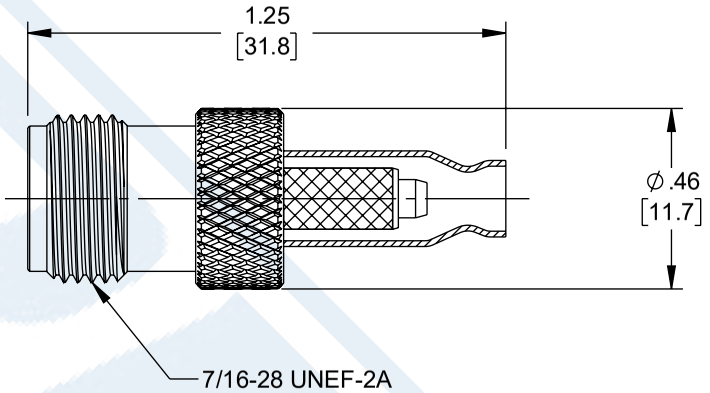
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| REVISION | | | | | |
|---|---|---|---|---|---|
| ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
| D3 | B | ECO-12575 | 03/16/2023 | AKRESOWSKI | AGANWANI |




STRIPPING DIMENSIONS




CRIMP SIZE REQUIRED
CONTACT: .068" HEX CRIMP TOOL
FERRULE: .178" HEX CRIMP TOOL

NOTES:

1. STRIP CABLE AS SHOWN. SLIDE FERRULE (1) ONTO CABLE.
2. FLARE END OF CABLE BRAID AND SLIDE METAL SPACER (2) AND PTFE SPACER (3) OVER CABLE DIELECTRIC.
3. THE CONTACT (4) SHOULD BUTT AGAINST THE DIELECTRIC AND PTFE SPACER. CRIMP CONTACT TO CABLE CENTER CONDUCTOR.
4. INSTALL CABLE ASSEMBLY INTO BODY SO THAT THE INNER FERRULE PORTION OF BODY SLIDES UNDER BRAID. PUSH CABLE ASSEMBLY FORWARD UNTIL CONTACT IS IN THE RIGHT PLACE. SLIDE FERRULE OVER BRAID AND UP AGAINST CONNECTOR BODY AND CRIMP.

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LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ± .2 [ 5 ]
.XX = ± .02 [ .5 ]
.XXX = ± .005 [ .13 ]

FRACTIONS ± 1/32
ANGLES ± 1°

CABLE LENGTH TOLERANCES:

≤12 [305] = +1 [25] / -0
>12 [305] ≤ 60 [1524] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

| SCALE | SHEET |
|---|---|
| NONE | 1 OF 1 |

DESCRIPTION
TNC FEMALE CONNECTOR CRIMP/SOLDER ATTACHMENT FOR RG174, RG316, RG188, PE-B100, PE-C100, 0.100 INCH, LMR-100

| SIZE | CAGE CODE | DRAWN BY | ITEM NO. | REV |
|---|---|---|---|---|
| A | 53919 | AKRESOWSKI | PE4462 | B |

T-Rev.D2

PE4462 REV 1.2

# PE4462 CAD Drawing

TNC Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100

# Low Loss Flexible LMR-100A-PVC Indoor/Outdoor Rated Coax Cable Double Shielded with Black PVC Jacket



## LMR-100A-PVC

TIMES MICROWAVE SYSTEMS An Amphenol Company

## Times Microwave Systems Connector Specification

### Configuration

- Low Loss, Indoor/Outdoor Flexible Cable
- 2 Shield(s)

### Features

- Max Operating Frequency of 8 GHz
- Low Loss Cable
- Phase Velocity 66% VoP

### Applications

- Laboratory Applications
- General Purpose RF Interconnect

### Description

LMR-100A-PVC part number from Pasternack is a LMR-100A-PVC coax cable that is flexible. Pasternack LMR-100A flexible coax cable is 50 Ohm and has a PE dielectric. Our LMR-100A coax is constructed with a 0.11 jacket made of PVC. LMR-100A coax has a shield count of 2, a RF shielding of 90 dB and the maximum frequency for this Pasternack cable is 8 GHz. LMR-100A coax cable has an attenuation at 1 GHz of 24 dB.

Pasternack LMR-100A-PVC coax cables are part of over 40,000 RF, microwave and millimeter wave components. LMR-100A cables and our other RF parts are available for same day shipping worldwide. Custom RF cable assemblies using LMR-100A or other coax can be built and shipped same day as well.

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 8 | GHz |
| Cutoff Frequency | | 90 | | GHz |
| Impedance | | 50 | | Ohms |
| Velocity of Propagation | | 66 | | % |
| Time Delay | | 1.54 [5.05] | | ns/ft [ns/m] |
| Shielding Effectiveness | 90 | | | dB |
| Dielectric Withstanding Voltage (DC) | | | 500 | Vdc |
| Jacket Spark | | | 2,000 | Vrms |
| Inner Conductor DC Resistance | | | 81 | Ohms/1000ft |
| Outer Conductor DC Resistance | | | 9.5 | Ohms/1000ft |
| Nominal Capacitance | | 30.8 [101.05] | | pF/ft [pF/m] |
| Nominal Inductance | | 0.077 [0.25] | | uH/ft [uH/m] |
| Input Power (Peak) | | | 600 | Watts |


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# Low Loss Flexible LMR-100A-PVC Indoor/Outdoor Rated Coax Cable Double Shielded with Black PVC Jacket



## LMR-100A-PVC

### Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency | 50 | 150 | 220 | 450 | 900 | MHz |
| Attenuation, Typ | 3.9 | 8.9 | 10.9 | 15.8 | 22.8 | dB/100ft |
| | 12.8 | 29.2 | 35.76 | 51.84 | 74.8 | dB/100m |
| Input Power (CW), Max | 230 | 100 | 83 | 57 | 39 | Watts |

| Description | F6 | F7 | F8 | F9 | F10 | Units |
|---|---|---|---|---|---|---|
| Frequency | 1.5 | 1.8 | 2 | 2.5 | 5.8 | GHz |
| Attenuation, Typ | 30.1 | 33.2 | 35.2 | 39.8 | 64.1 | dB/100ft |
| | 98.75 | 108.92 | 115.49 | 130.58 | 210.3 | dB/100m |
| Input Power (CW), Max | 29 | 27 | 25 | 22 | 13 | Watts |

### Mechanical Specifications

| | |
|---|---|
| Diameter | 0.11 in [2.79 mm} |
| Weight | 0.009 lbs/ft [0.01 kg/m] |
| Min. Bend Radius (Installation) | 0.25 in [6.35 mm] |
| Min. Bend Radius (Repeated) | 1 in [25.4 mm] |
| Bending Moment | 0.1 lbs-ft [0.14 N-m] |
| Tensile Strength | 15 lbs [6.8 kg] |
| Flat Plate Crush | 10 lbs/in [0.18 kg/mm] |

### Construction Specifications

| Description | Material and Plating | Diameter |
|---|---|---|
| Inner Conductor | Copper Clad Steel, 1 Strand | 0.018 in [0.46 mm] |
| Conductor Type | Solid | |
| Dielectric | PE | 0.06 in [1.52 mm] |
| First Shield | Aluminum Tape | |
| Second Shield | Tinned Copper Braid | |
| Jacket | PVC, Black | 0.11 in [2.79 mm] |

### Environmental Specifications

**Temperature**

| | |
|---|---|
| Operating Range | -40 to 85 deg C |
| Storage Range | -70 to 85 deg C |

### Compliance Certifications (see product page for current document)

### Plotted and Other Data

Notes:


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# Low Loss Flexible LMR-100A-PVC Indoor/Outdoor Rated Coax Cable Double Shielded with Black PVC Jacket



## LMR-100A-PVC

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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Low Loss Flexible LMR-100A-PVC Indoor/Outdoor Rated Coax Cable Double Shielded with Black PVC Jacket LMR-100A-PVC

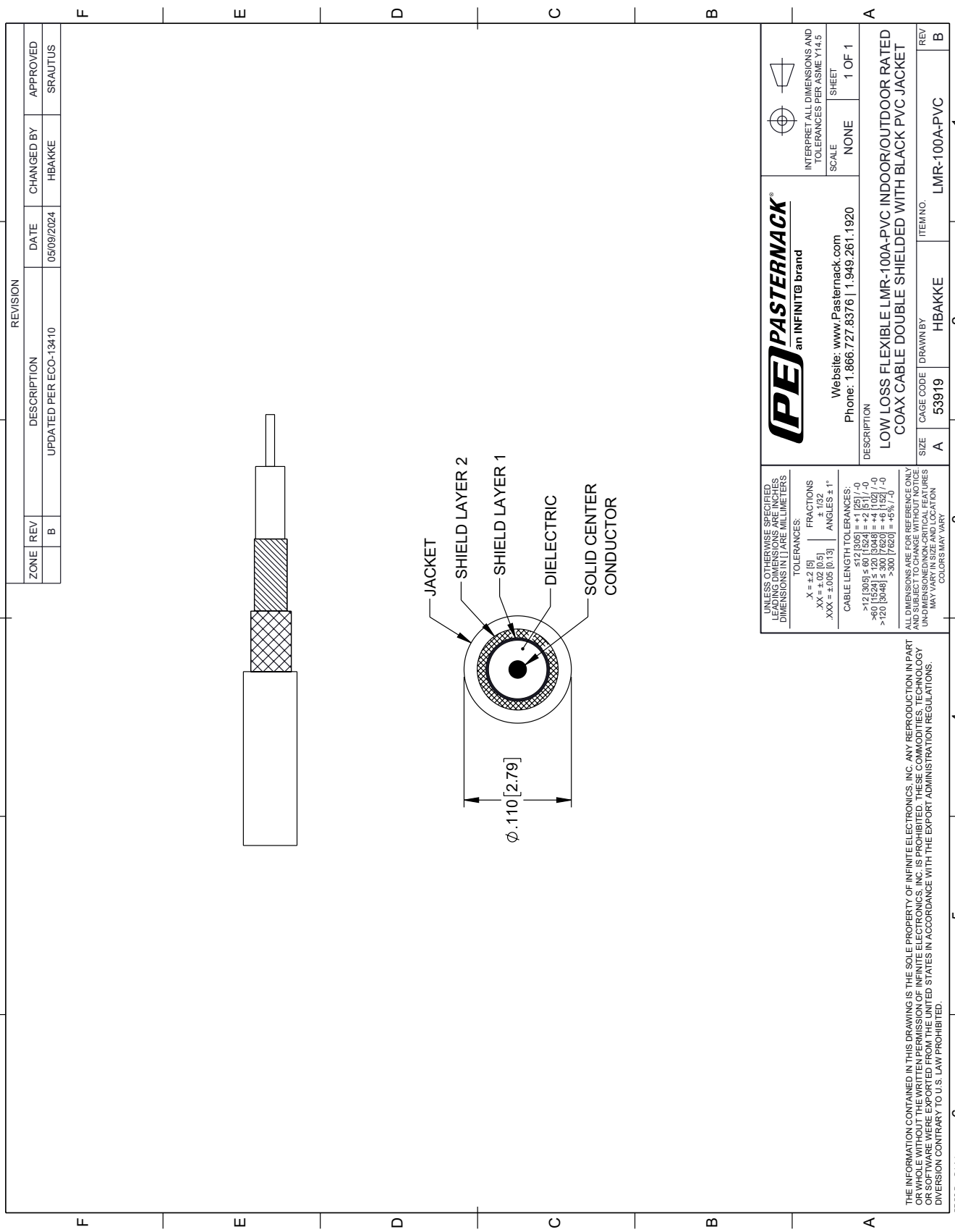
URL: https://www.pasternack.com/50-ohm-low-loss-flexible-lmr-100apvc-jacket-double-shielded-lmr-100a-pvc-p.aspx

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# LMR-100A-PVC CAD Drawing

Low Loss Flexible LMR-100A-PVC Indoor/Outdoor Rated Coax Cable Double Shielded with Black PVC Jacket






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