



SMA Male to TNC Male Cable 24 Inch Length Using LMR-200 Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

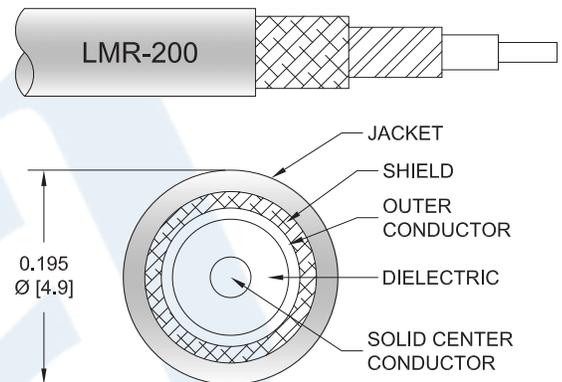
PE3W02192/HS-24

Configuration

- Connector 1: SMA Male
- Connector 2: TNC Male
- Cable Type: LMR-200

Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 83% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W02192/HS-24 SMA male to TNC male 24 inch cable using LMR-200 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SMA to TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-200 coax. The PE3W02192/HS-24 SMA male to TNC male cable assembly operates to 3 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 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 TNC Male Cable 24 Inch Length Using LMR-200 Coax with HeatShrink PE3W02192/HS-24](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|--------------|---------|---------------------------|
| Frequency Range | DC | | 3 | GHz |
| VSWR | | | 1.5:1 | |
| Velocity of Propagation | | 83 | | % |
| RF Shielding | 90 | | | dB |
| Group Delay | | 1.22 [4] | | ns/ft [ns/m] |
| Capacitance | | 24.5 [80.38] | | pF/ft [pF/m] |
| Inductance | | 0.061 [0.2] | | uH/ft [uH/m] |
| DC Resistance Inner Conductor Km] | | 5.36 [17.59] | | Ohms/1000ft [Ohms/ Km] |
| DC Resistance Outer Conductor Km] | | 4.9 [16.08] | | Ohms/1000ft [Ohms/ Km] |
| Jacket Spark | | | 3,000 | Vrms |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 3 | GHz |
| Insertion Loss (Max.) | 0.3 | 0.35 | 0.41 | 0.54 | 0.57 | dB |

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector loss.

Mechanical Specifications

Cable Assembly

| | |
|----------|---------------------|
| Length* | 24 in [609.6 mm] |
| Diameter | 0.591 in [15.01 mm] |

Cable

| | |
|--------------------------------------|---------------------|
| Cable Type | LMR-200 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper |
| Dielectric Type | PE (F) |
| Number of Shields | 2 |
| Shield Layer 1 | Aluminum Tape |
| Shield Layer 2 | Tinned Copper Braid |

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| | |
|------------------------------|------------------------|
| Jacket Material | PE, Black |
| Jacket Diameter | 0.195 in [4.95 mm] |
| One Time Minimum Bend Radius | 0.5 in [12.7 mm] |
| Repeated Minimum Bend Radius | 2 in [50.8 mm] |
| Bending Moment | 0.2 lbs-ft [0.27 N-m] |
| Flat Plate Crush | 15 lbs/in [0.27 Kg/mm] |
| Tensile Strength | 40 lbs [18.14 Kg] |

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|----------------------------|------------------|
| Type | SMA Male | TNC Male |
| Specification | MIL-STD-348 | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Beryllium Copper, Gold | Brass, Gold |
| Contact Plating Specification | ASTM B488 | 30μ in. minimum |
| Dielectric Type | Teflon | Teflon |
| Body Material and Plating | Passivated Stainless Steel | Brass, Nickel |
| Body Plating Specification | SAE-AMS-2700 | 100μ in. minimum |
| Coupling Nut Material and Plating | Passivated Stainless Steel | |
| Coupling Nut Plating Specification | SAE-AMS-2700 | |
| Hex Size | 5/16 Inch | |

Mechanical Specification Notes:

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

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W02192/HS - xx uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3W02192/HS-12 = 12 inches long cable
PE3W02192/HS-100cm = 100 cm long cable

SMA Male to TNC Male Cable 24 Inch Length Using LMR-200 Coax with HeatShrink 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: [SMA Male to TNC Male Cable 24 Inch Length Using LMR-200 Coax with HeatShrink PE3W02192/HS-24](https://www.pasternack.com/sma-male-tnc-male-lmr200-cable-assembly-pe3w02192-hs-24-p.aspx)

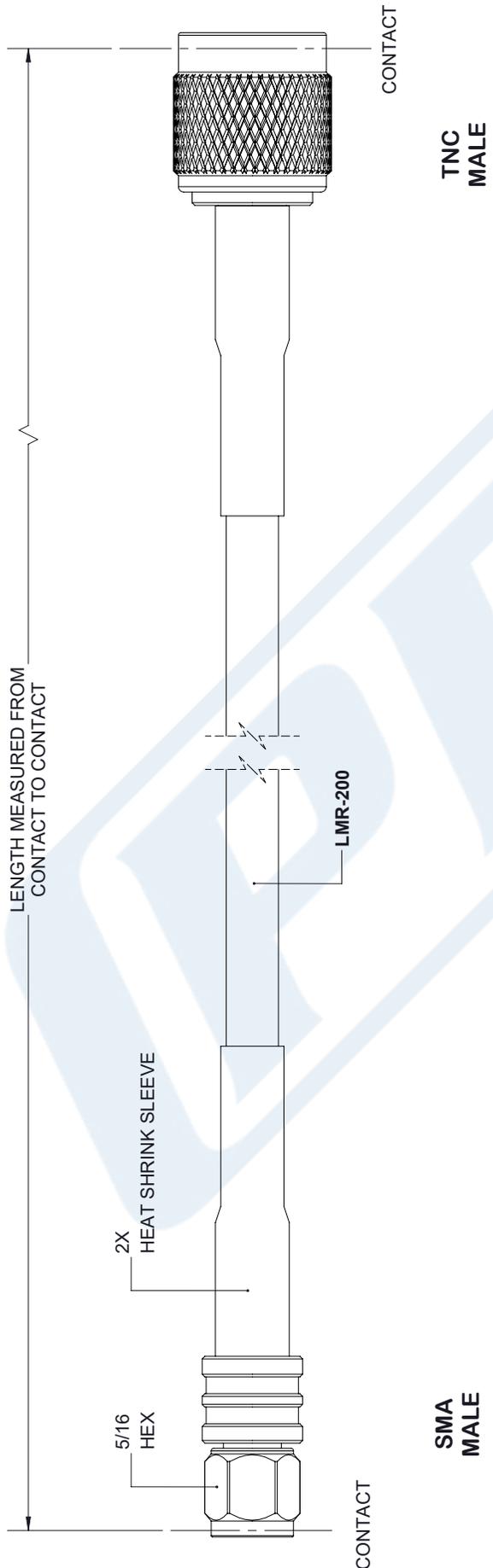
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE3W02192/HS-24 CAD Drawing

SMA Male to TNC Male Cable 24 Inch Length Using LMR-200 Coax with HeatShrink

| REVISIONS | | | |
|-----------|-----------------|----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 05/02/19 | S.ELLIS |



| | | | | | | | | | | | | |
|---|--------|-------------|--------------|-------------|-------|-------|-----------|--------|--------------|--|--|--|
| <p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table style="font-size: small;"> <tr> <td>X±.2</td> <td>[5.08]</td> <td>FRACTIONS</td> </tr> <tr> <td>.XX±.01</td> <td>[.25]</td> <td>±.132</td> </tr> <tr> <td>.XXX±.005</td> <td>[.13]</td> <td>ANGLES ± 1°</td> </tr> </table> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p> <p>THIRD-ANGLE PROJECTION</p> | X±.2 | [5.08] | FRACTIONS | .XX±.01 | [.25] | ±.132 | .XXX±.005 | [.13] | ANGLES ± 1° | <p>Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 www.pasternack.com e-mail: sales@pasternack.com</p> | <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p> | |
| X±.2 | [5.08] | FRACTIONS | | | | | | | | | | |
| .XX±.01 | [.25] | ±.132 | | | | | | | | | | |
| .XXX±.005 | [.13] | ANGLES ± 1° | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SIZE</td> <td>CAGE</td> <td>DRAWN BY</td> <td>PART NUMBER</td> <td>REV</td> </tr> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">53919</td> <td style="text-align: center;">K.DANG</td> <td style="text-align: center;">PE3W02192/HS</td> <td style="text-align: center;">A</td> </tr> </table> | SIZE | CAGE | DRAWN BY | PART NUMBER | REV | A | 53919 | K.DANG | PE3W02192/HS | A | | |
| SIZE | CAGE | DRAWN BY | PART NUMBER | REV | | | | | | | | |
| A | 53919 | K.DANG | PE3W02192/HS | A | | | | | | | | |

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