



N Male to SMA Male Cable Using RG58 Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

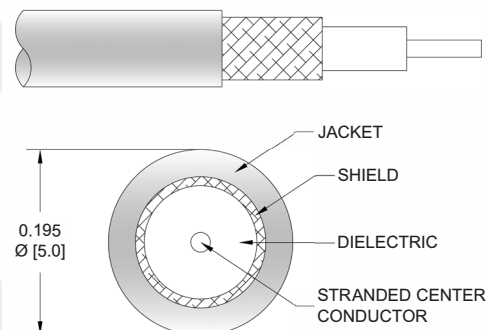
PE3W05544/HS

Configuration

- Connector 1: N Male
- Connector 2: SMA Male
- Cable Type: RG58

Features

- Max Frequency 5 GHz
- 65.9% Phase Velocity
- PVC (NC) Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W05544/HS type N male to SMA male cable using RG58 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 type N to SMA cable assembly has a male to male gender configuration with 50 ohm flexible RG58 coax. The PE3W05544/HS type N male to SMA male cable assembly operates to 5 GHz.

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: [N Male to SMA Male Cable Using RG58 Coax with HeatShrink PE3W05544/HS](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|---------------|---------|--------------|
| Frequency Range | DC | | 5 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 65.9 | | % |
| Capacitance | | 30.8 [101.05] | | pF/ft [pF/m] |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|-------|------|------|------|-------|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 5 | GHz |
| Insertion Loss (Typ.) | 0.074 | 0.116 | 0.2 | 0.35 | 0.6 | dB/ft |
| | 0.24 | 0.38 | 0.66 | 1.15 | 1.97 | dB/m |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.125 lbs [56.7 g]

Cable

Cable Type RG58
 Impedance 50 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper, Tin
 Dielectric Type PE
 Number of Shields 1
 Shield Layer 1 Tinned Copper Braid
 Jacket Material PVC (NC), Black
 Jacket Diameter 0.195 in [4.95 mm]

One Time Minimum Bend Radius 0.98 in [24.89 mm]
 Repeated Minimum Bend Radius 1.96 in [49.78 mm]

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|------------------|--------------------|
| Type | N Male | SMA Male |
| Specification | MIL-STD-348 | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | 50 µin minimum | 50 µin minimum |
| Dielectric Type | Teflon | PTFE |
| Body Material and Plating | Brass, Tri-Metal | Brass, Nickel |
| Body Plating Specification | | 100 µin minimum |
| Coupling Nut Material and Plating | Brass, Tri-Metal | Brass, Nickel |
| Coupling Nut Plating Specification | | 100 µin minimum |
| Hex Size | 13/16 Inch | 5/16 inch |
| Torque | | 3 in-lbs [0.34 Nm] |

Environmental Specifications

Temperature

Operating Range

-40 to +80 deg C

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

Plotted and Other Data

Notes:

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RF Cable Assemblies Technical Data Sheet

PE3W05544/HS

How to Order

Part Number Configuration:

PE3W05544/HS - xx

uu

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

Example: PE3W05544/HS-12 = 12 inches long cable
PE3W05544/HS-100cm = 100 cm long cable

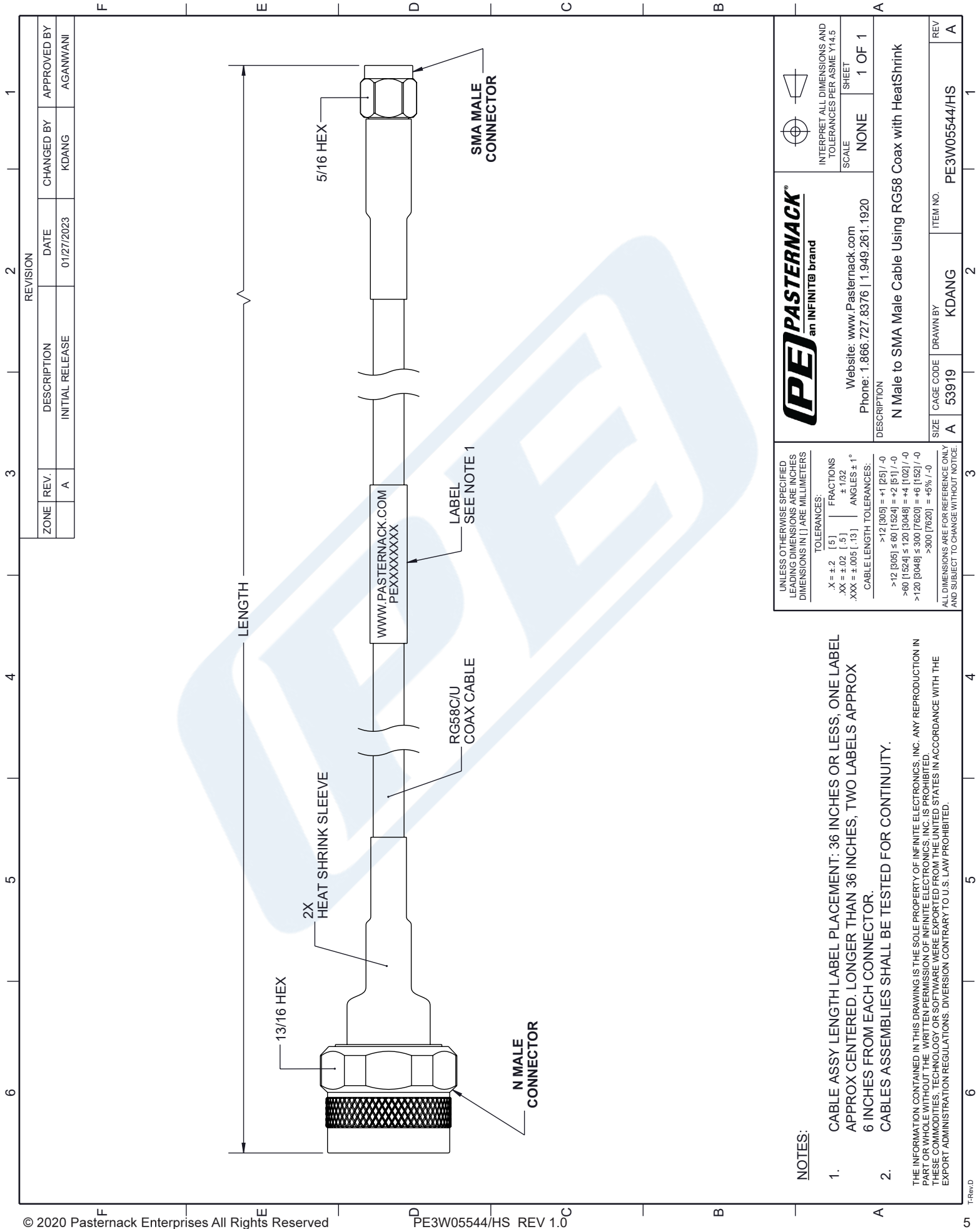
N Male to SMA Male Cable Using RG58 Coax with HeatShrink from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to SMA Male Cable Using RG58 Coax with HeatShrink PE3W05544/HS](#)

URL: <https://www.pasternack.com/n-male-to-sma-male-cable-using-rg58-with-heatshrink-pe3w05544-hs-p.aspx>

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.



PE3W05544/HS CAD Drawing
N Male to SMA Male Cable Using RG58 Coax with HeatShrink



NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
2. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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|--|--------------------|---|--------------------------|
|  PASTERNAK an INFINITE® brand | |  | |
| Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920 | | SCALE | NONE |
| DESCRIPTION N Male to SMA Male Cable Using RG58 Coax with HeatShrink | | SHEET | 1 OF 1 |
| SIZE A | CAGE CODE 53919 | DRAWN BY KDANG | ITEM NO. PE3W05544/HS |
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS | | REV A | |

TOLERANCES:
.X = ±.2 [.5] FRACTIONS
.XX = ±.02 [.5] ±.1/32
.XXX = ±.005 [.13] ANGLES ± 1°
CABLE LENGTH TOLERANCES:
>12 [305] = +1 [25] / -0
>60 [1524] = +2 [51] / -0
>120 [3048] = +4 [102] / -0
>300 [7620] = +6 [152] / -0
>600 [15240] = +8 [203] / -0
ALL DIMENSIONS ARE FOR REFERENCE ONLY
AND SUBJECT TO CHANGE WITHOUT NOTICE.