



## 7/16 DIN Male to HN Male Right Angle Cable Using RG214 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3W08170**

#### Configuration

- Connector 1: 7/16 DIN Male
- Connector 2: HN Male Right Angle
- Cable Type: RG214

#### Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W08170 7/16 DIN male to HN male right angle cable using RG214 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 7/16 DIN to HN cable assembly has a male to male gender configuration with 50 ohm flexible RG214 coax. The PE3W08170 7/16 DIN male to HN male cable assembly operates to 1 GHz. The right angle HN interface on the RG214 cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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: [7/16 DIN Male to HN Male Right Angle Cable Using RG214 Coax PE3W08170](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			1,500	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	50	100	250	500	1,000	MHz
Insertion Loss (Typ.)	0.012	0.02	0.03	0.045	0.076	dB/ft
	0.04	0.07	0.1	0.15	0.25	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the 7/16 DIN male connector and 0.2 dB for the HN male connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.551 lbs [249.93 g]

##### Cable

Cable Type RG214  
Impedance 50 Ohms  
Inner Conductor Type Stranded  
Inner Conductor Material and Plating Copper, Silver  
Dielectric Type PE  
Number of Shields 2  
Shield Layer 1 Silver Plated Copper Braid  
Shield Layer 2 Silver Plated Copper Braid  
Jacket Material PVC, Black  
Jacket Diameter 0.425 in [10.8 mm]

Repeated Minimum Bend Radius 1.6 in [40.64 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	7/16 DIN Male	HN Male Right Angle
Specification	IEC 169-4	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 $\mu$ in minimum	30 $\mu$ in minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 $\mu$ in minimum	100 $\mu$ in minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 $\mu$ in minimum	100 $\mu$ in minimum
Hex Size	32 mm	
Torque	18.417 ft-lbs [24.97 Nm]	

#### Environmental Specifications

##### Temperature

Operating Range

-20 to +80 deg C

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

#### Plotted and Other Data

Notes:

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## 7/16 DIN Male to HN Male Right Angle Cable Using RG214 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3W08170**

#### How to Order

Part Number Configuration:

**PE3W08170**

- **xx**

**uu**

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

Example: PE3W08170-12 = 12 inches long cable  
PE3W08170-100cm = 100 cm long cable

7/16 DIN Male to HN Male Right Angle Cable Using RG214 Coax 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: [7/16 DIN Male to HN Male Right Angle Cable Using RG214 Coax PE3W08170](#)

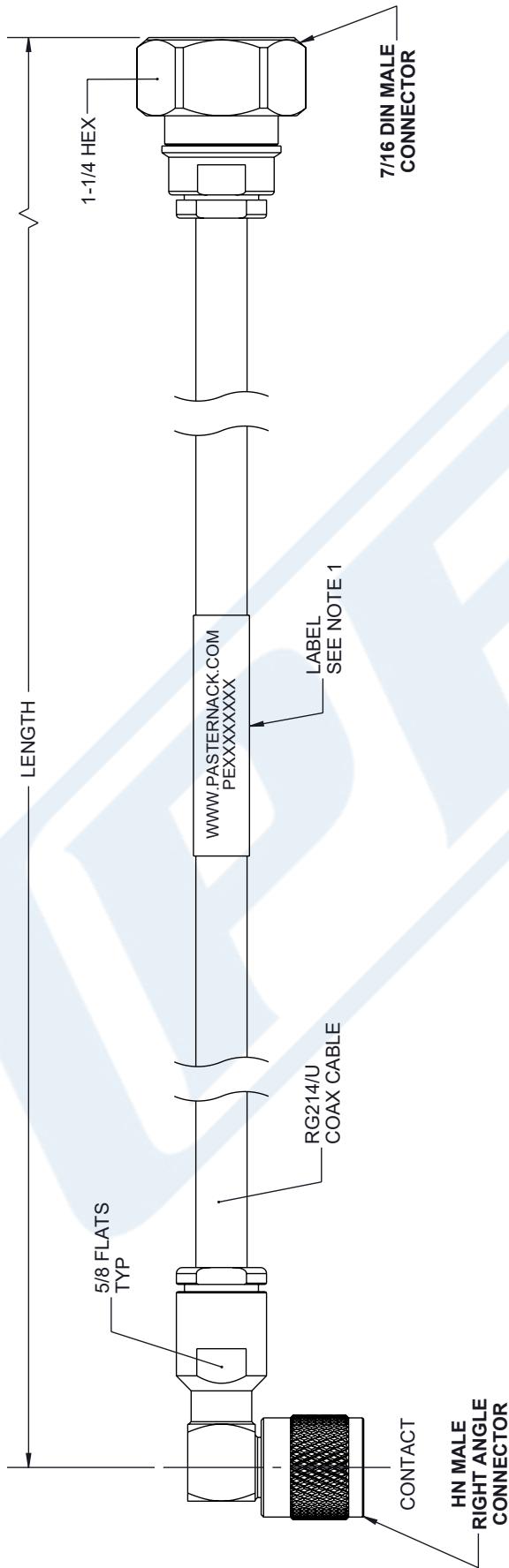
URL: <https://www.pasternack.com/7-16-din-male-to-hn-male-cable-using-rg214-pe3w08170-p.aspx>

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.

PE3W08170 CAD Drawing

## 7/16 DIN Male to HN Male Right Angle Cable Using RG214 Coax

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	01/27/2023	KDANG	AGANWANI



## 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.  
CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- 2.

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UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

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TOLERANCES:

$X = \pm 2$	[5]	FRACTIONS
$Y = \pm 0.2$	[0.5]	$\pm 1/32$

## INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE	NONE
SHEET	1 OF 1

Coaxial Cable Using RG214 Coax

REV

PE3W08170 A

539 A

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