

HN Male Right Angle to HN Male Cable Using RG214 Coax



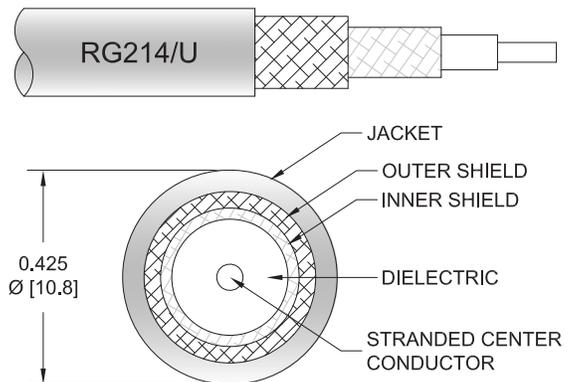
PE3W04456

Configuration

- Connector 1: HN Male Right Angle
- Connector 2: HN Male
- Cable Type: RG214
- Coax Flex Type: Flexible

Features

- Max Frequency 3 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W04456 HN male right angle to HN male 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 HN to HN cable assembly has a male to male gender configuration with 50 ohm flexible RG214 coax. The PE3W04456 HN male to HN male cable assembly operates to 3 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
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

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		100	250	500	1000	
PE3W04456	Custom Lengths Available	Insertion Loss (Typ.)	0.02	0.03	0.05	0.08	0.141	dB/ft	
			0.07	0.1	0.15	0.25	0.47	dB/m	
PE3W04456-12	12 inch	Insertion Loss (Typ.)	0.32	0.33	0.35	0.38	0.45	dB	0.501
PE3W04456-36	36 inch	Insertion Loss (Typ.)	0.36	0.39	0.44	0.53	0.73	dB	0.758
PE3W04456-48	48 inch	Insertion Loss (Typ.)	0.38	0.42	0.48	0.61	0.87	dB	0.886
PE3W04456-72	72 inch	Insertion Loss (Typ.)	0.42	0.48	0.57	0.76	1.15	dB	1.142
PE3W04456-108	108 inch	Insertion Loss (Typ.)	0.48	0.57	0.71	0.99	1.57	dB	1.526

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.2 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.501 pounds
Additional Weight per Inch:	0.01067 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.501 lbs [227.25 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	HN Male Right Angle	HN Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum

Environmental Specifications

Operating Range Temperature -20 to +80 deg C

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

Plotted and Other Data

Notes:

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PE3W04456

Typical Performance Data

How to Order

Part Number Configuration:

PE3W04456

- **xx**

uu

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W04456-12 = 12 inches long cable
PE3W04456-100cm = 100 cm long cable

HN Male Right Angle to HN Male 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.

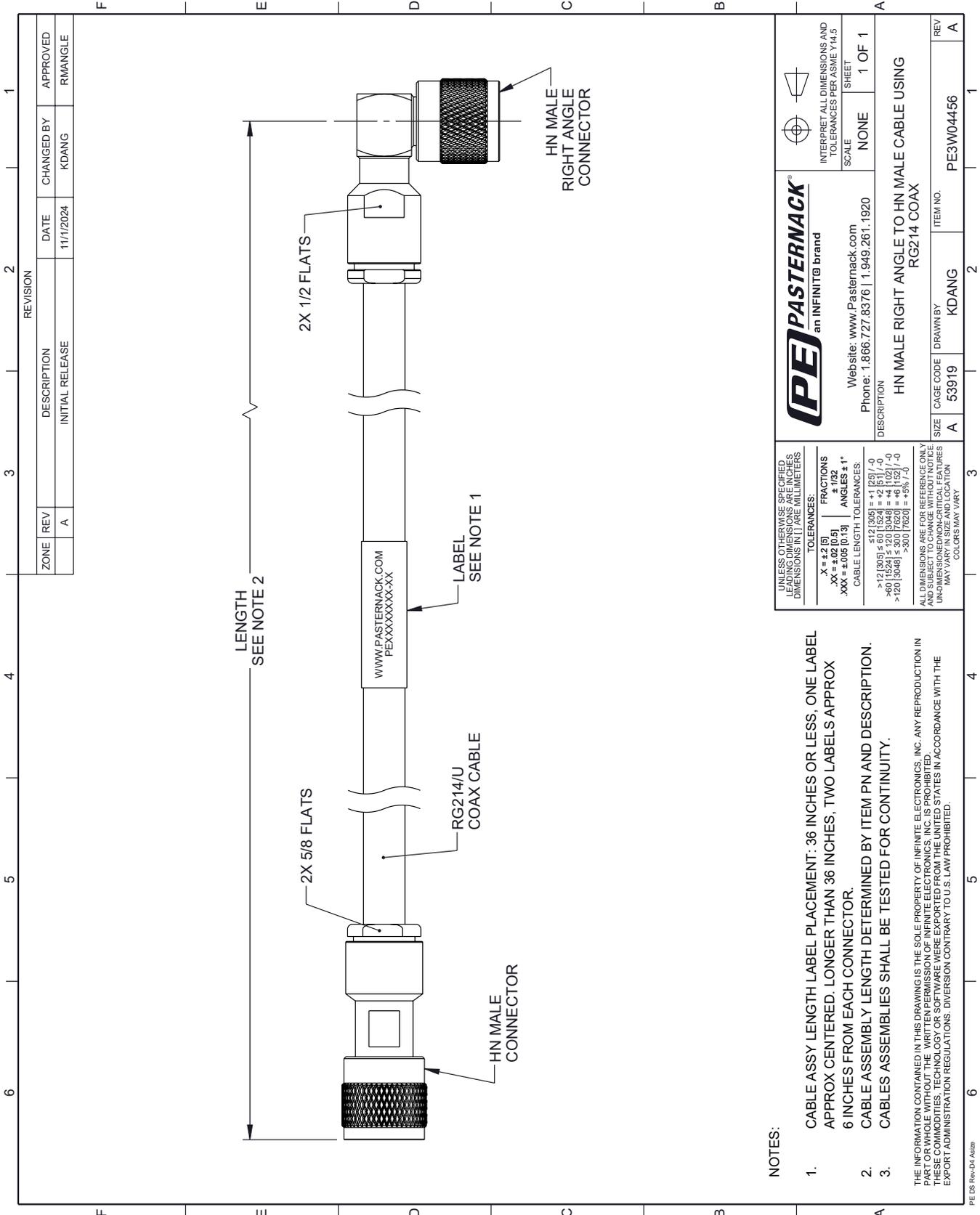
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [HN Male Right Angle to HN Male Cable Using RG214 Coax PE3W04456](#)

URL: <https://www.pasternack.com/hn-male-hn-male-rg214u-cable-assembly-pe3w04456-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3W04456 CAD Drawing

HN Male Right Angle to HN Male Cable Using RG214 Coax



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	A	11/1/2024	KDANG	RMANGLE
DESCRIPTION				
INITIAL RELEASE				

		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE NONE SHEET 1 OF 1
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		DESCRIPTION HN MALE RIGHT ANGLE TO HN MALE CABLE USING RG214 COAX
SIZE A	DRAWN BY KDANG	ITEM NO. PE3W04456
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] ARE MILLIMETERS. TOLERANCES: .X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13] FRACTIONS ± 1/32 ANGLES ± 1° CABLE LENGTH TOLERANCES: <12 [305] ±.60 [1524] = ±.2 [51] >12 [305] ±.60 [1524] = ±.2 [51] / -0 <40 [1024] ±.120 [3048] = ±.4 [1027] / -0 >40 [1024] ±.120 [3048] = ±.4 [1027] / -0 >20 [508] ±.300 [7620] = ±.93 [23] / -0 ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		

- NOTES:**
- 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.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
 - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
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