



1.0/2.3 Plug to N Male Right Angle Cable Using RG316 Coax

RF Cable Assemblies Technical Data Sheet

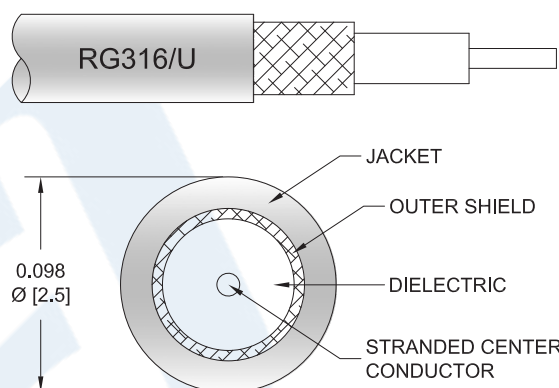
PE3W11835

Configuration

- Connector 1: 1.0/2.3 Plug
- Connector 2: N Male Right Angle
- Cable Type: RG316

Features

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W11835 1.0/2.3 plug to type N male right angle cable using RG316 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 1.0/2.3 to type N cable assembly has a plug to male gender configuration with 50 ohm flexible RG316 coax. The PE3W11835 1.0/2.3 plug to type N male cable assembly operates to 3 GHz. The right angle type N interface on the RG316 cable allows for easier connections in tight spaces.

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: [1.0/2.3 Plug to N Male Right Angle Cable Using RG316 Coax PE3W11835](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		69		%
Operating Voltage (AC)			250	Vrms
Jacket Spark			2,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.11	0.16	0.23	0.38	0.58	dB/ft
	0.36	0.52	0.75	1.25	1.9	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB for the right angle connector and 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Weight 0.132 lbs [59.87 g]

Cable

Cable Type	RG316
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.102 in [2.59 mm]

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Connectors

Description	Connector 1	Connector 2
Type	1.0/2.3 Plug	N Male Right Angle
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Tri-Metal
Body Plating Specification	100 µin minimum	
Coupling Nut Material and Plating	Brass, Nickel	Brass, Tri-Metal
Coupling Nut Plating Specification	100 µin minimum	

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

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

Plotted and Other Data

Notes:

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PE3W11835

How to Order

Part Number Configuration:

PE3W11835

- **xx**

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

Example: PE3W11835-12 = 12 inches long cable
PE3W11835-100cm = 100 cm long cable

1.0/2.3 Plug to N Male Right Angle Cable Using RG316 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.

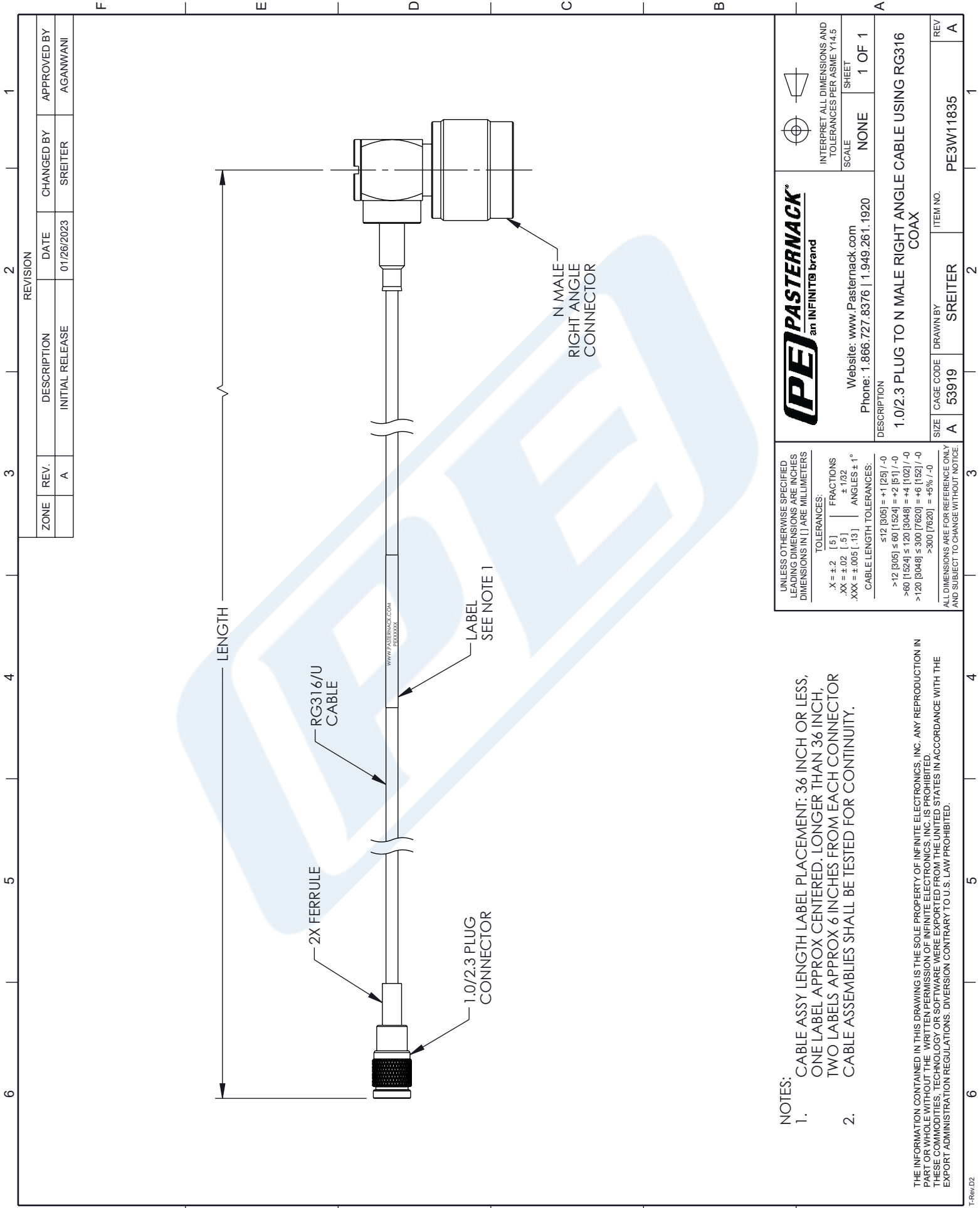
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1.0/2.3 Plug to N Male Right Angle Cable Using RG316 Coax PE3W11835](https://www.pasternack.com/1.0-2.3-plug-to-n-male-cable-using-rg316-pe3w11835-p.aspx)

URL: <https://www.pasternack.com/1.0-2.3-plug-to-n-male-cable-using-rg316-pe3w11835-p.aspx>

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PE3W11835 CAD Drawing

1.0/2.3 Plug to N Male Right Angle Cable Using RG316 Coax



NOTES:

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

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

TOLERANCES:

X = ±.2	[.5]	FRACTIONS
.XX = ±.02	[.5]	±.1/32
.XXX = ±.005	[.13]	ANGLES ± 1°

CABLE LENGTH TOLERANCES:

≤12 [305]	±.1 [25]	/ -0
>12 [305]	≤.60 [1524]	±.2 [51] / -0
>60 [1524]	≤1.20 [3048]	±.4 [102] / -0
>120 [3048]	≤3.00 [7620]	±.6 [152] / -0
>300 [7620]	±.5% / -0	

ALL DIMENSIONS ARE FOR REFERENCE ONLY
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INTERPRET ALL DIMENSIONS AND
TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

DESCRIPTION:
1.0/2.3 PLUG TO N MALE RIGHT ANGLE CABLE USING RG316
COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	SREITER	PE3W11835

REV A