



BNC Male to SMA Male Cable Using RG223 Coax , LF Solder

RF Cable Assemblies Technical Data Sheet

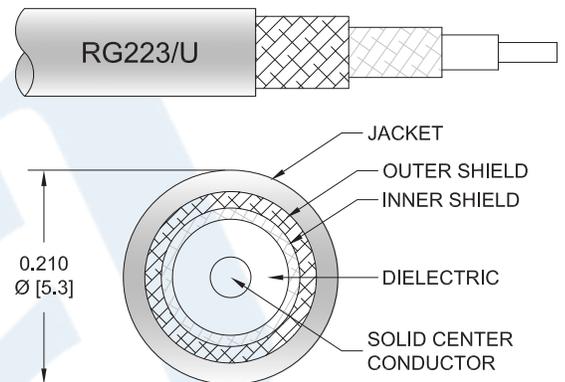
PE3W02214LF

Configuration

- Connector 1: BNC Male
- Connector 2: SMA Male
- Cable Type: RG223

Features

- Max Frequency 4 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W02214LF BNC male to SMA male cable using RG223 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 BNC to SMA cable assembly has a male to male gender configuration with 50 ohm flexible RG223 coax. The PE3W02214LF BNC male to SMA male cable assembly operates to 4 GHz. 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: [BNC Male to SMA Male Cable Using RG223 Coax , LF Solder PE3W02214LF](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	4	GHz
Insertion Loss (Typ.)	0.06	0.09	0.13	0.22	0.29	dB/ft
	0.2	0.3	0.43	0.72	0.95	

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

Diameter 0.571 in [14.5 mm]

Cable

Cable Type RG223
 Impedance 50 Ohms
 Inner Conductor Type Solid
 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 0.209 in [5.31 mm]
 Repeated Minimum Bend Radius 1 in [25.4 mm]

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Connectors

Description	Connector 1	Connector 2
Type	BNC Male	SMA Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	50 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
Hex Size		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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How to Order

Part Number Configuration:

PE3W02214LF - xx uu

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

Example: PE3W02214LF-12 = 12 inches long cable
PE3W02214LF-100cm = 100 cm long cable

BNC Male to SMA Male Cable Using RG223 Coax , LF Solder 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: [BNC Male to SMA Male Cable Using RG223 Coax , LF Solder PE3W02214LF](https://www.pasternack.com/bnc-male-sma-male-rg223u-cable-assembly-pe3w02214lf-p.aspx)

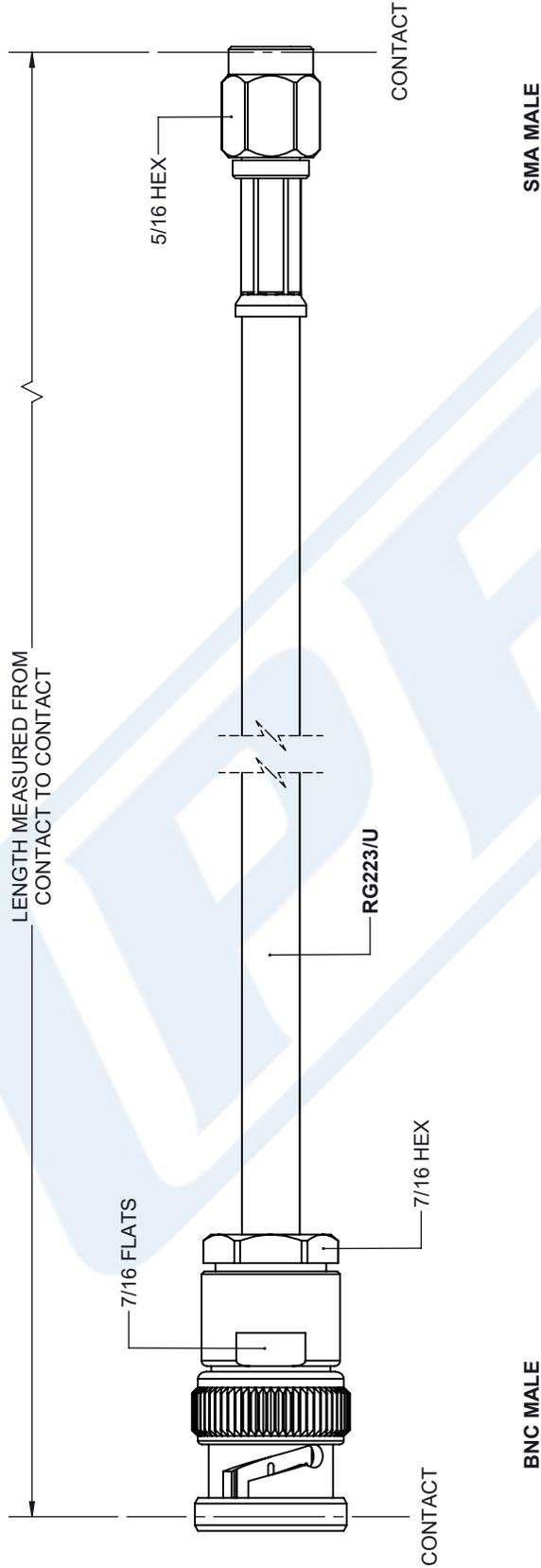
URL: <https://www.pasternack.com/bnc-male-sma-male-rg223u-cable-assembly-pe3w02214lf-p.aspx>

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PE3W02214LF CAD Drawing

BNC Male to SMA Male Cable Using RG223 Coax , LF Solder

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	10/19/2020
		APPROVED S. ELLIS



PE PASTERNAK
an INFINITE brand

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	K.DANG	PE3W02214LF	A

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

TOLERANCES:

.X = ±.2	[.008]	FRACTIONS	± 1/32
.XX = ±.02	[.51]	ANGLES ± 1°	
.XXX = ±.005	[.13]		

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305]	± .125 / -0
12 [305] < L ≤ 60 [1524]	± .25 / -0
60 [1524] < L ≤ 120 [3048]	± .5 / -0
120 [3048] < L ≤ 300 [7620]	± 1.0 / -0
300 [7620] < L	± 5% / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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