



## BNC Male to BNC Male Cable Using RG316-DS Coax , LF Solder

### RF Cable Assemblies Technical Data Sheet

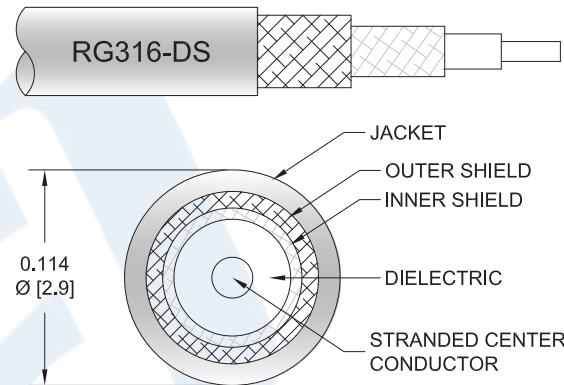
**PE3C1527LF**

#### Configuration

- Connector 1: BNC Male
- Connector 2: BNC Male
- Cable Type: RG316-DS
- Coax Flex Type: Flexible

#### Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C1527LF BNC male to BNC male cable using RG316-DS 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 BNC cable assembly has a male to male gender configuration with 50 ohm flexible RG316-DS coax. The PE3C1527LF BNC male to BNC male cable assembly operates to 3 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 BNC Male Cable Using RG316-DS Coax , LF Solder PE3C1527LF](#)



## BNC Male to BNC Male Cable Using RG316-DS Coax , LF Solder

**RF Cable Assemblies Technical Data Sheet**
**PE3C1527LF**
**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			335	Vrms

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.082	0.128	0.194	0.29	0.535	dB/ft
	0.27	0.42	0.64	0.95	1.76	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 0.068 lbs [30.84 g]

**Cable**

Cable Type	RG316-DS
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.114 in [2.9 mm]

Repeated Minimum Bend Radius 0.6 in [15.24 mm]

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**RF Cable Assemblies Technical Data Sheet**
**PE3C1527LF**
**Connectors**

Description	Connector 1	Connector 2
Type	BNC Male	BNC Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 $\mu$ in. minimum	50 $\mu$ in. minimum
Dielectric Type	Teflon	Teflon
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

**Environmental Specifications**
**Temperature**

Operating Range

-55 to +165 deg C

**Compliance Certifications** (see product page for current document)

**Plotted and Other Data**

Notes:

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## BNC Male to BNC Male Cable Using RG316-DS Coax , LF Solder

**RF Cable Assemblies Technical Data Sheet****PE3C1527LF****How to Order**

Part Number Configuration:

**PE3C1527LF** - **xx** **uu**

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

Example: PE3C1527LF-12 = 12 inches long cable  
PE3C1527LF-100cm = 100 cm long cable

BNC Male to BNC Male Cable Using RG316-DS 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 BNC Male Cable Using RG316-DS Coax , LF Solder PE3C1527LF](#)

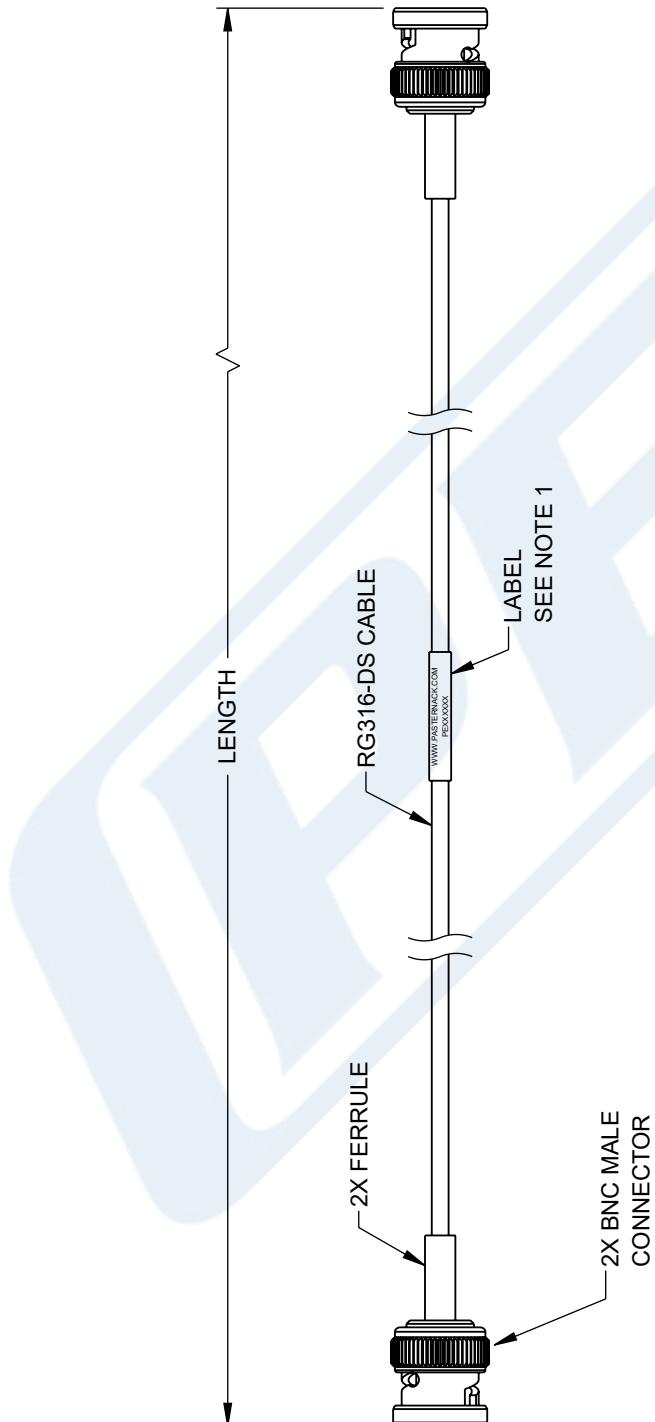
URL: <https://www.pasternack.com/bnc-male-to-bnc-male-cable-using-rg316-ds-lf-solder-pe3c1527lf-p.aspx>

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.

PE3C1527LF CAD Drawing

BNC Male to BNC Male Cable Using RG316-DS Coax , LF Solder

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
A	INITIAL RELEASE	05/22/2023	BPUCHASKI	AGANWAN	



NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.

2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

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 <b>PASTERNACK®</b> an INFINITTA brand		 		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SHEET	
		SCALE	NONE		1 OF 1
DESCRIPTION BNC Male to BNC Male Cable Using RG316-DS Coax , LF Solder		ITEM NO.	PE3C1527LF		REV A
CLASSIFIED INCHES DIMETERS	INCHES DIMETERS	CAGE CODE	DRAWN BY		
1/32	1/32	53919	BPUCHASKI		
SPECIFICATIONS: [25] / -0 [51] / -0 [102] / -0		TOLERANCES: [152] / -0 [51] / -0 [102] / -0		ENCL. / -0 MNT. / -0	