



Reverse Polarity N Plug to Reverse Polarity N Plug Cable Using RG8 Coax , LF Solder

RF Cable Assemblies Technical Data Sheet

PE3W00076LF

Configuration

- Connector 1: N Plug Reverse Polarity
- Connector 2: N Plug Reverse Polarity
- Cable Type: RG8

Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC (NC) Jacket
- 500 Mating Cycles

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W00076LF reverse polarity type N plug to reverse polarity type N plug cable using RG8 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 reverse polarity type N to reverse polarity type N cable assembly has a plug to plug gender configuration with 50 ohm flexible RG8 coax. The PE3W00076LF reverse polarity type N plug to reverse polarity type N plug cable assembly operates to 1 GHz.

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: [Reverse Polarity N Plug to Reverse Polarity N Plug Cable Using RG8 Coax , LF Solder PE3W00076LF](#)



Reverse Polarity N Plug to Reverse Polarity N
Plug Cable Using RG8 Coax , LF Solder

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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]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	50	100	250	500	1,000	MHz
Insertion Loss (Typ.)	0.013	0.017	0.029	0.049	0.08	dB/ft
	0.04	0.06	0.1	0.16	0.26	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 straight connector.

Mechanical Specifications

Cable Assembly

Weight 0.261 lbs [118.39 g]

Cable

Cable Type	RG8
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Copper Braid
Jacket Material	PVC (NC), Black
Jacket Diameter	0.405 in [10.29 mm]

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Reverse Polarity N Plug to Reverse Polarity N
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Connectors

Description	Connector 1	Connector 2
Type	N Plug Reverse Polarity	N Plug Reverse Polarity
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material and Plating	Phosphor Bronze, Gold	Phosphor Bronze, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal

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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RF Cable Assemblies Technical Data Sheet

PE3W00076LF

How to Order

Part Number Configuration:

PE3W00076LF

- **xx**

uu

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

Example: PE3W00076LF-12 = 12 inches long cable
PE3W00076LF-100cm = 100 cm long cable

Reverse Polarity N Plug to Reverse Polarity N Plug Cable Using RG8 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: [Reverse Polarity N Plug to Reverse Polarity N Plug Cable Using RG8 Coax , LF Solder PE3W00076LF](#)

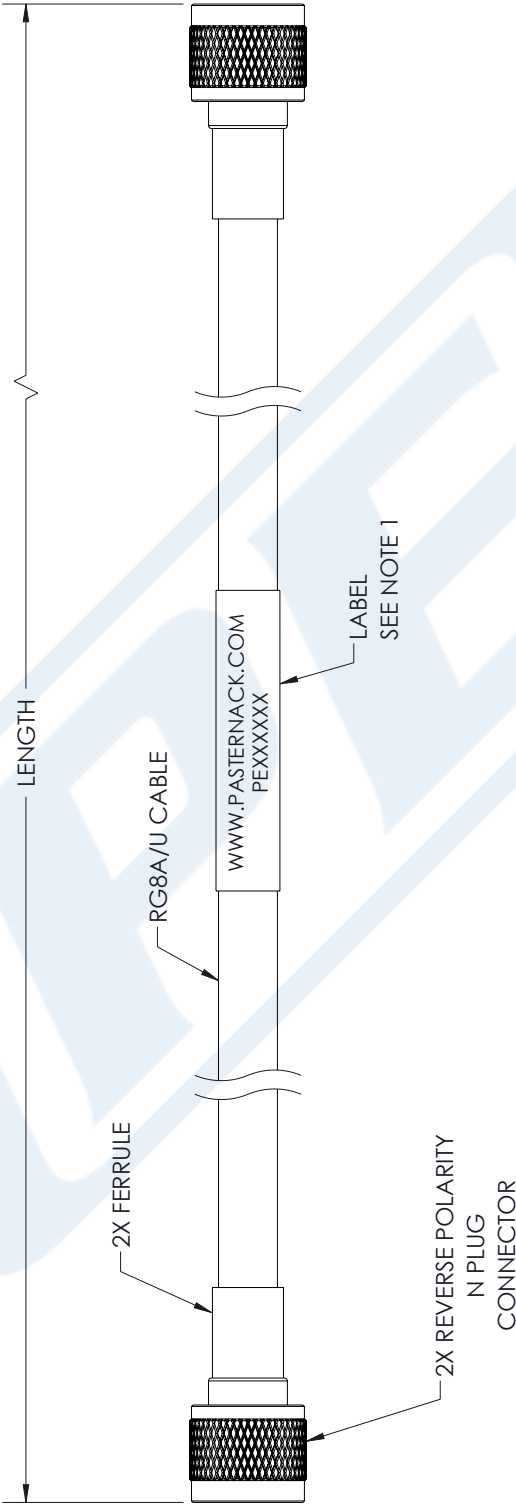
URL: <https://www.pasternack.com/reverse-polarity-n-plug-to-reverse-polarity-n-plug-cable-using-r8-lf-solder-pe3w00076lf-p.aspx>

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.

PE3W00076LF CAD Drawing

Reverse Polarity N Plug to Reverse Polarity N Plug Cable Using RG8 Coax , LF Solder

REVISION			
ZONE	REV.	DESCRIPTION	DATE
	A	INITIAL RELEASE	01/25/2023
			CHANGED BY
			BPUCHASKI
			APPROVED BY
			AGANWANI



NOTES:

- 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.
 - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY
- THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.



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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE

SHEET: 1 OF 1

DESCRIPTION

Reverse Polarity N Plug to Reverse Polarity N Plug Cable Using RG8 Coax , LF Solder

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	BPUCHASKI	PE3W00076LF

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

TOLERANCES:

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

CABLE LENGTH TOLERANCES:

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

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.