



## BNC Twinax Jack to BNC Twinax Jack Bulkhead Cable Using 78 Ohm RG108 Coax , LF Solder

### RF Cable Assemblies Technical Data Sheet

PE3W09940LF

#### Configuration

- Connector 1: BNC Twinax Jack
- Connector 2: BNC Twinax Jack Bulkhead
- Cable Type: RG108

#### Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W09940LF 78 ohm BNC Twinax jack to 78 ohm BNC Twinax jack bulkhead cable using 78 ohm RG108 twinax 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 Twinax to BNC Twinax cable assembly has a jack to jack gender configuration with 78 ohm flexible RG108 twinax. The PE3W09940LF BNC Twinax jack to BNC Twinax jack cable assembly operates to 1 GHz. Our RF cable assembly with BNC Twinax bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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 Twinax Jack to BNC Twinax Jack Bulkhead Cable Using 78 Ohm RG108 Coax , LF Solder PE3W09940LF](#)



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**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.45:1	
Velocity of Propagation		66		%
Capacitance		19.7 [64.63]		pF/ft [pF/m]

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	50	100	250	500	1,000	MHz
Insertion Loss (Max.)	0.04	0.09	0.11	0.19	0.35	dB/ft
	0.13	0.3	0.36	0.62	1.15	

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 0.688 in [17.48 mm]

**Cable**

Cable Type RG108  
 Impedance 78 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper, Tin  
 Dielectric Type PE  
 Number of Shields 1  
 Shield Layer 1 Tinned Copper Braid  
 Jacket Material PVC, Black  
 Jacket Diameter 0.235 in [5.97 mm]

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**Connectors**

Description	Connector 1	Connector 2
Type	BNC Twinax Jack	BNC Twinax Jack Bulkhead
Specification	MIL-STD-348	MIL-STD-348
Impedance	78 Ohms	78 Ohms
Contact Material and Plating	Silver	Silver
Contact Plating Specification	QQ-S-365	QQ-S-365
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	QQ-N-290	QQ-N-290

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

**Plotted and Other Data**

Notes:

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**How to Order**

Part Number Configuration:

**PE3W09940LF - xx uu**

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

Example: PE3W09940LF-12 = 12 inches long cable  
PE3W09940LF-100cm = 100 cm long cable

BNC Twinax Jack to BNC Twinax Jack Bulkhead Cable Using 78 Ohm RG108 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 Twinax Jack to BNC Twinax Jack Bulkhead Cable Using 78 Ohm RG108 Coax , LF Solder PE3W09940LF](https://www.pasternack.com/bnc-twinax-jack-bnc-twinax-jack-rg108au-cable-assembly-pe3w09940lf-p.aspx)

URL: <https://www.pasternack.com/bnc-twinax-jack-bnc-twinax-jack-rg108au-cable-assembly-pe3w09940lf-p.aspx>

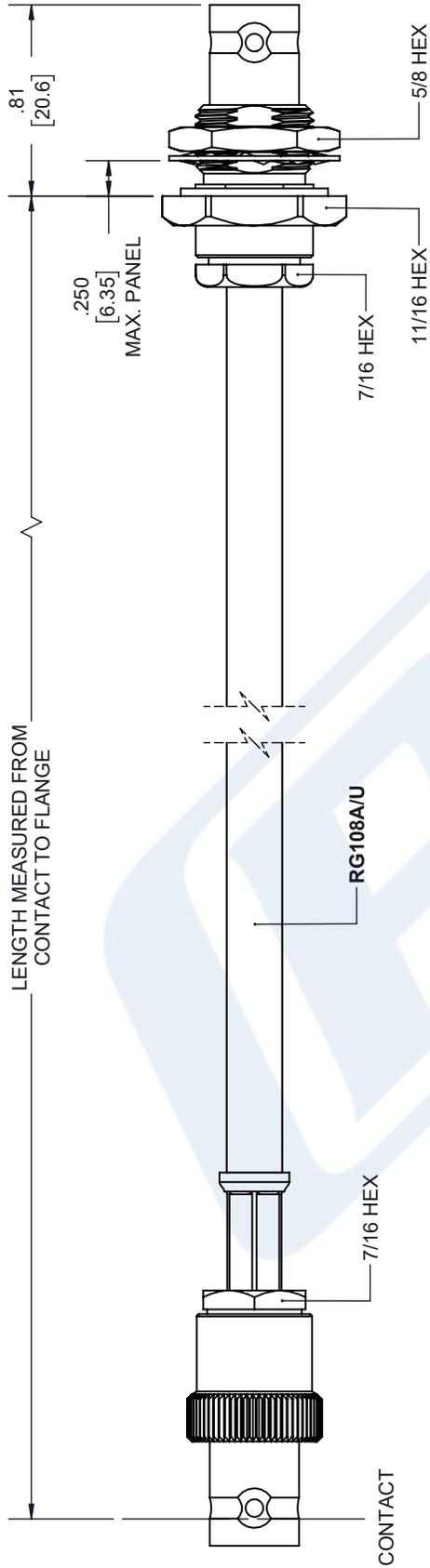
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.

# PE3W09940LF CAD Drawing

BNC Twinax Jack to BNC Twinax Jack Bulkhead Cable

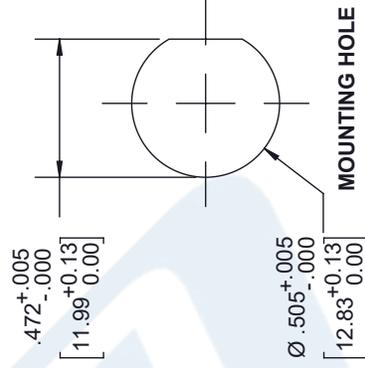
Using 78 Ohm RG108 Coax , LF Solder

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	10/16/2020	S. ELLIS



BNC TWINAX JACK  
BULKHEAD

BNC TWINAX JACK



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] = +1 [25] / -0  
 12 [305] < L ≤ 60 [1524] = +2 [51] / -0  
 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0  
 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0  
 300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV A

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ITEM NO. PE3W09940LF

SIZE A    CAGE CODE 53919    DRAWN BY K.DANG

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