



7/16 DIN Male to HN Male Cable Using RG218 Coax in 144 Inch

RF Cable Assemblies Technical Data Sheet

PE36257-144

Configuration

- Connector 1: 7/16 DIN Male
- Connector 2: HN Male
- Cable Type: RG218

Features

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

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE36257-144 7/16 DIN male to HN male 144 inch cable using RG218 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 7/16 DIN to HN cable assembly has a male to male gender configuration with 50 ohm flexible RG218 coax. The PE36257-144 7/16 DIN male to HN male 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.5:1	
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.)	0.28	0.32	0.4	0.53	0.8	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7/16 DIN Male to HN Male Cable Using RG218 Coax in 144 Inch PE36257-144](#)



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Mechanical Specifications

Cable Assembly

Length*	144 in [365.76 cm]
Weight	1.374 lbs [623.24 g]

Cable

Cable Type	RG218
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.87 in [22.1 mm]

Connectors

Description	Connector 1	Connector 2
Type	7/16 DIN Male	HN Male
Specification	MIL-C-39012	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Silver over Copper	Brass, Silver over Copper
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Hex Size	1 1/4 in	
Torque	18 in-lbs [2.03 Nm]	

Environmental Specifications

Temperature

Operating Range	-40 to +80 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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PE36257-144

How to Order

Part Number Configuration:

PE36257

- **xx**

uu

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE36257-12 = 12 inches long cable
PE36257-100cm = 100 cm long cable

7/16 DIN Male to HN Male Cable Using RG218 Coax in 144 Inch 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: [7/16 DIN Male to HN Male Cable Using RG218 Coax in 144 Inch PE36257-144](https://www.pasternack.com/7-16-din-male-hn-male-rg218u-cable-assembly-pe36257-144)

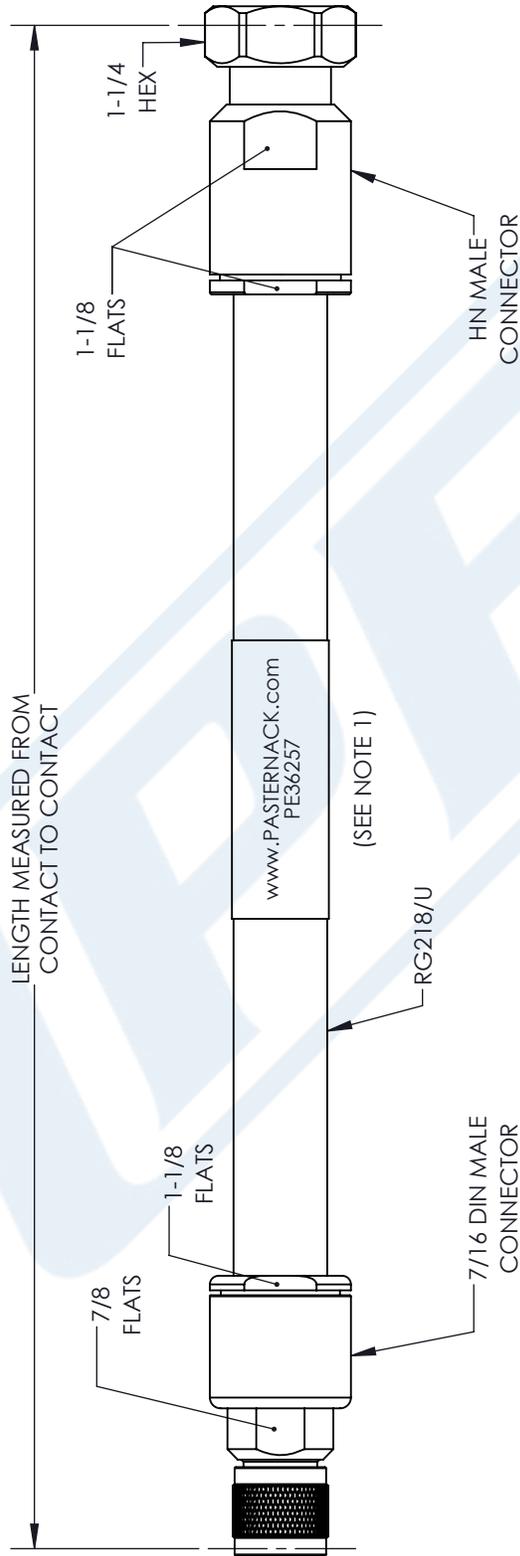
URL: <https://www.pasternack.com/7-16-din-male-hn-male-rg218u-cable-assembly-pe36257-144-p.aspx>

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.

PE36257-144 CAD Drawing

7/16 DIN Male to HN Male Cable Using RG218 Coax in 144 Inch

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	08/10/2022	AGANWANI



<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table border="0"> <tr> <td>X ± .2</td> <td>[.008]</td> <td>FRACTIONS</td> <td>± 1/32</td> </tr> <tr> <td>.XX ± .02</td> <td>[.51]</td> <td>ANGLES</td> <td>± 1°</td> </tr> <tr> <td>XXX ± .005</td> <td>[.13]</td> <td></td> <td></td> </tr> </table> <p>CABLE LENGTH (L) TOLERANCES:</p> <table border="0"> <tr> <td>L ≤ 12 [305]</td> <td>± 1 [25] / -0</td> </tr> <tr> <td>12 [305] < L ≤ 60 [1524]</td> <td>± 2 [51] / -0</td> </tr> <tr> <td>60 [1524] < L ≤ 120 [3048]</td> <td>± 4 [102] / -0</td> </tr> <tr> <td>120 [3048] < L ≤ 300 [7620]</td> <td>± 6 [152] / -0</td> </tr> <tr> <td>300 [7620] < L</td> <td>± 5% / -0</td> </tr> </table> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	X ± .2	[.008]	FRACTIONS	± 1/32	.XX ± .02	[.51]	ANGLES	± 1°	XXX ± .005	[.13]			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	<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p>
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<p>ITEM NO. PE36257</p> <p>REV A</p>	<p>SIZE A</p> <p>CAGE CODE 53919</p> <p>DRAWN BY BPUCHASKI</p>																						

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NOTES:

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM END OF CONNECTOR

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