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20KV Male Connector Crimp/Solder Attachment for RG214

RF Connectors
Technical Data Sheet

PE45842

Configuration

- 20KV Male Connector
- MIL-STD-202
- Straight Body Geometry
- Connector Interface Types: RG214

Features

- Gold over nickel over copper Plated Beryllium Copper Contact
- High Density PE Insulator

Applications

- General Purpose Test
- Custom Cable Assemblies
- High Voltage Pulsed RF Transmission

Description

Pasternack's PE45842 20kV high voltage coaxial connector is part of our series of High Voltage coaxial interconnects. This high voltage connector minimizes the risk of electric shock due to its recessed contact design. Both cable connectors and bulkhead receptacles have recessed contacts to withstand unmated high voltage ratings. Additionally, the front mount receptacles in this family of connectors are hermetically sealed. Our 20 kV connectors operate up to maximum frequency of 300 MHz and offers good insulation resistance of 1000MOhm.These connectors allow designers to create external connections on product enclosures in a variety of high voltage transmission applications.

Our 20kV coaxial connector PE45842 has datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Operating Voltage (DC)			20,000	Vdc
Test Voltage (DC)			30,000	Vdc
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	1,000			MOhms

Mechanical Specifications

Size

Length	3.9 in [99.06 mm]
Width/Dia.	0.75 in [19.05 mm]
Height	0.75 in [19.05 mm]
Weight	0.018 lbs [8.16 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 20KV Male Connector Crimp/Solder Attachment for RG214 PE45842

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
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Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over nickel over copper
Contact Spring		Nickel over Copper
Insulation	PE (HD)	
Body	Brass	Nickel Over Copper
Coupling Nut	Brass	Nickel Over Copper
Gasket	Silicone	
Crimp Sleeve	Brass	Nickel over Copper
Washer	Brass	Nickel over Copper

Environmental Specifications

Temperature

Operating Range	-55 to +85 deg C
Salt Spray	MIL-STD-202, Method 101, Condiiton B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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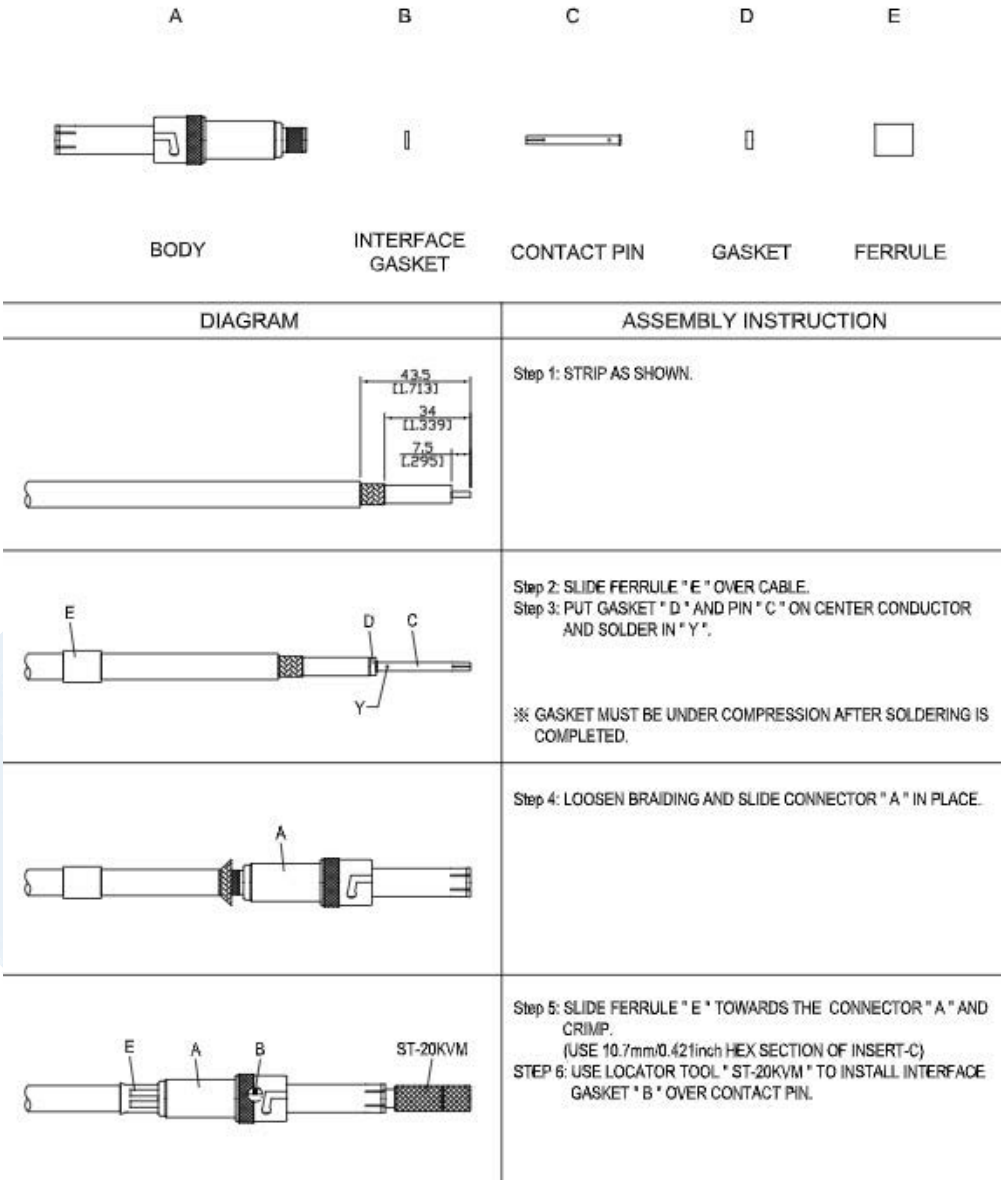


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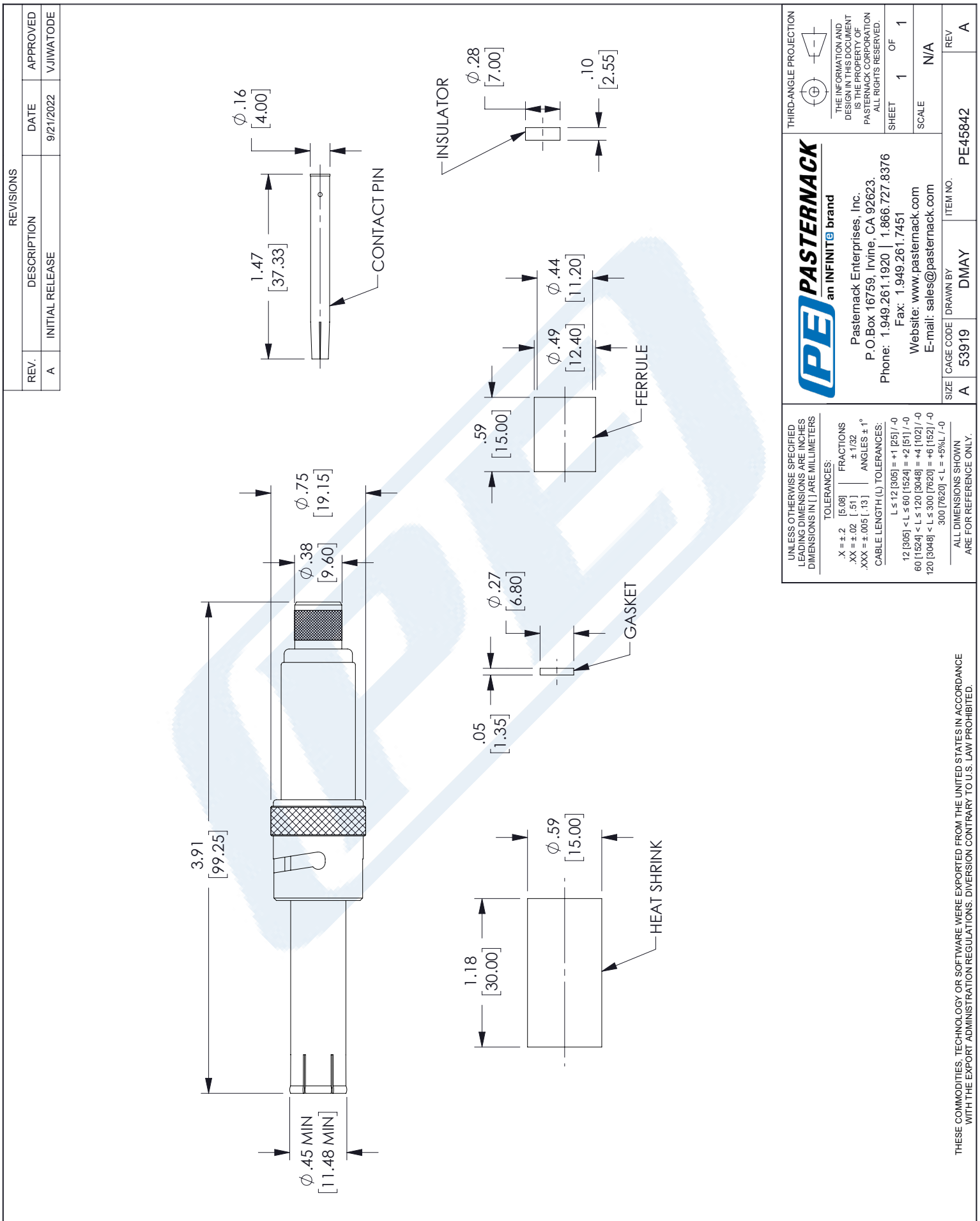
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PE45842 CAD Drawing

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Environmental Specifications

Temperature

Operating Range	-55 to +85 deg C
Salt Spray	MIL-STD-202, Method 101, Condiiton B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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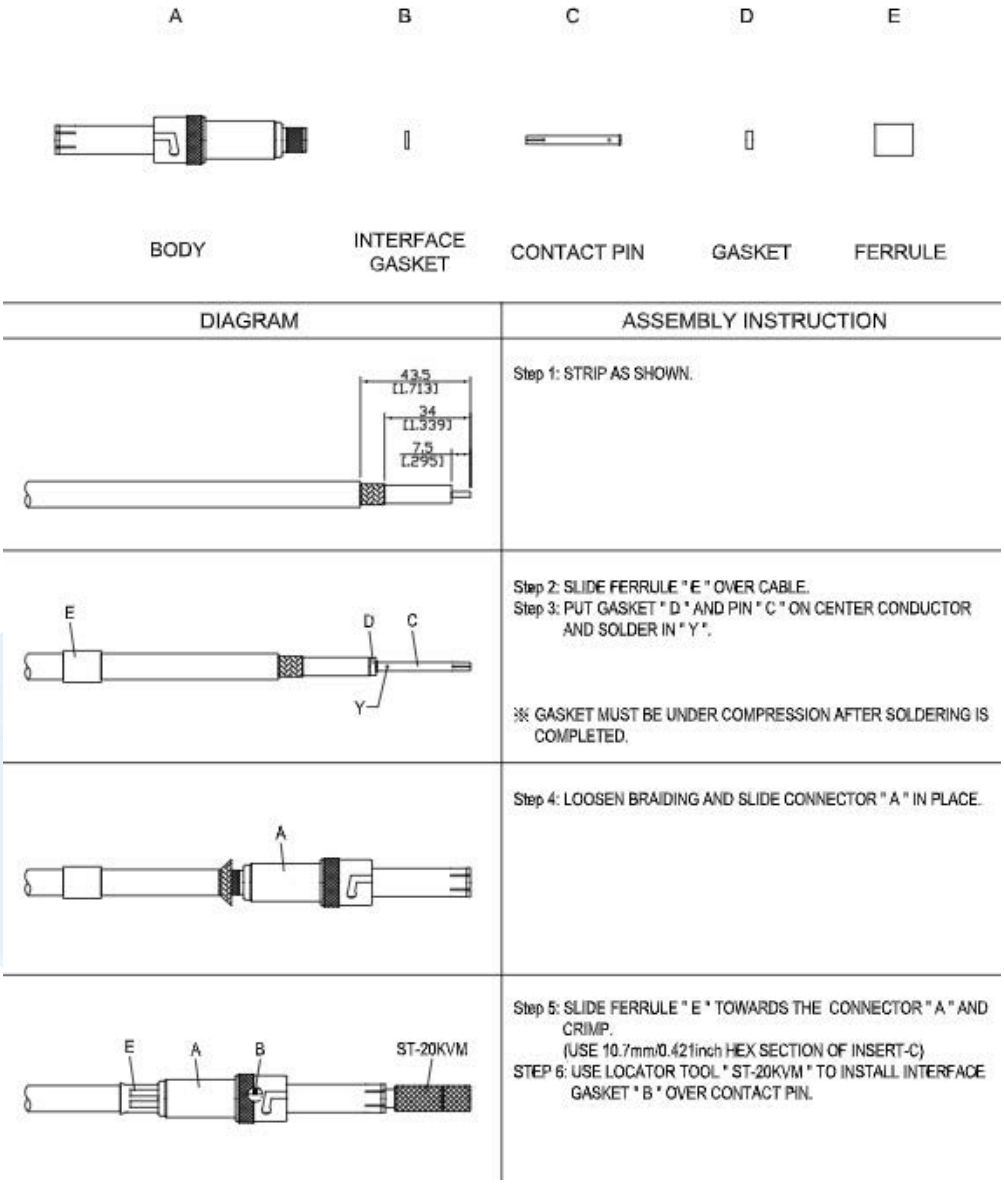


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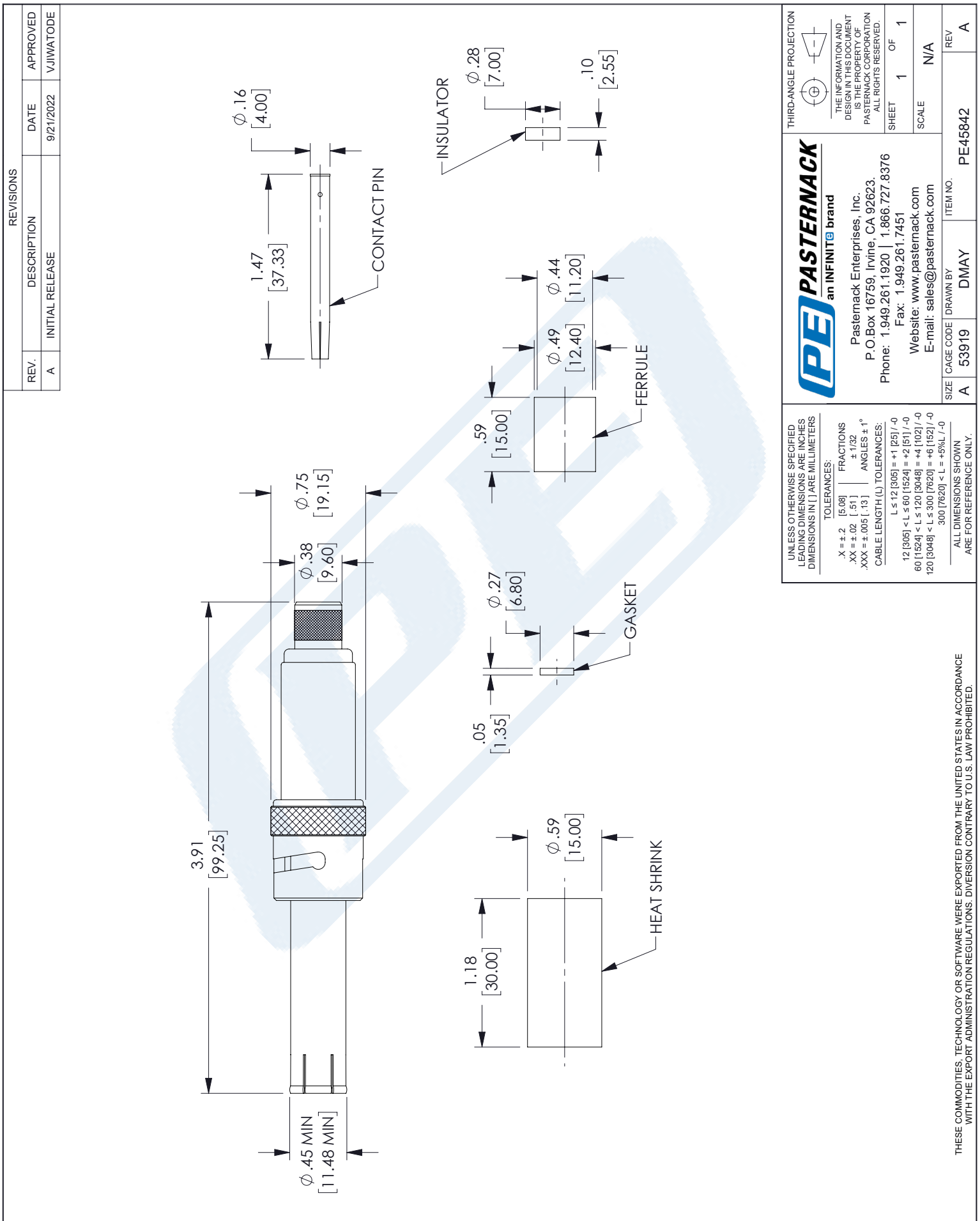
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PE45842 CAD Drawing

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Flexible RG225 Coax Cable Double Shielded with Brown PTFE (FG) Jacket

RF Cables
Technical Data Sheet

RG225/U

Configuration

- Flexible Cable
- 2 Shield(s)

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
Impedance		50		Ohms
Velocity of Propagation		70		%
Operating Voltage (AC)			3,700	Vrms
Nominal Capacitance		29.4 [96.46]		pF/ft [pF/m]

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.01	0.1	1	5	10	GHz
Attenuation, Typ	0.6 1.97	2.1 6.89	7.5 24.61	21 68.9	35 114.83	dB/100ft dB/100m
Input Power (CW), Max	25,000	6,300	1,700	620	350	Watts

Mechanical Specifications

Diameter	0.43 in [10.92 mm}
Weight	0.1725 lbs/ft [0.26 kg/m]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, Silver, 7 Strands	0.094 in [2.39 mm]
Conductor Type	Stranded	
Dielectric	PTFE	0.285 in [7.24 mm]
First Shield	Silver Plated Copper Braid 90% coverage	[ ]

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: Flexible RG225 Coax Cable Double Shielded with Brown PTFE (FG) Jacket RG225/U

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Flexible RG225 Coax Cable Double Shielded with Brown PTFE (FG) Jacket

RF Cables
Technical Data Sheet

RG225/U

Second Shield	Silver Plated Copper Braid 90% coverage	0.341 in [8.66 mm]
Jacket	PTFE (FG), Brown	0.43 in [10.92 mm]

Environmental Specifications

Temperature

Operating Range	-55 to +200 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Flexible RG225 Coax Cable Double Shielded with Brown PTFE (FG) Jacket 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.

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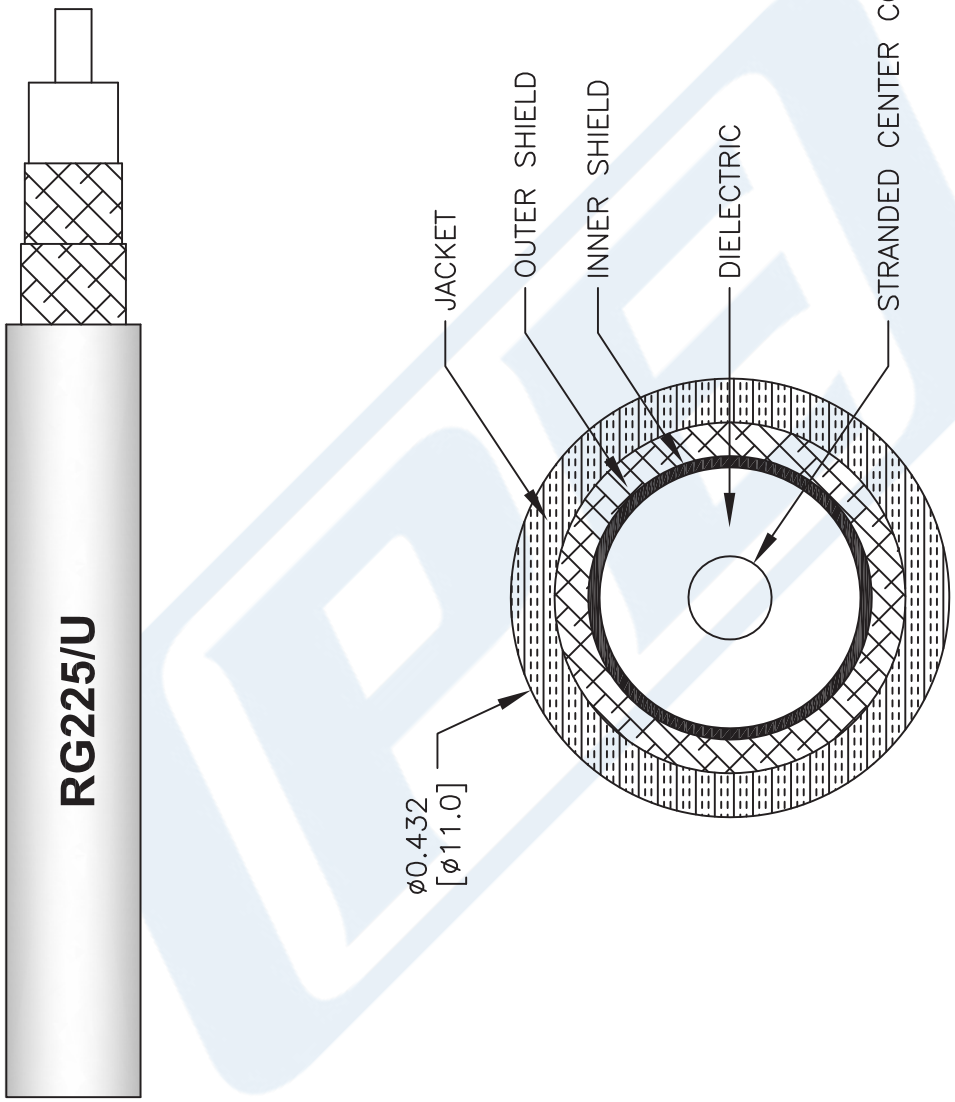
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RG225/U CAD Drawing

Flexible RG225 Coax Cable Double Shielded with Brown PTFE (FG) Jacket



NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE: RG225/U

CAD FILE 111716 | SCALE N/A | SIZE A | 41742

FSCM NO. 53919

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