PASTERNACK
an INFINITE brand



75 Ohm SMB Jack Connector Crimp/Solder Attachment for PE-B150, RG180, RG195

RF Connectors
Technical Data Sheet

PE4163

Configuration

- SMB Jack Connector
- MIL-STD-348
- 75 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-B150, RG180, RG195

Features

- Max. Operating Frequency 4 GHz
- Gold Plated Contact
- Contact plating according to MIL-G-45204

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4163 75 ohm SMB jack connector with crimp/solder attachment for PE-B150, RG180 and RG195 is part of our full line of RF components available for same-day shipping. Our SMB jack connector operates up to a maximum frequency of 4 GHz.

Our 75 ohm SMB jack connector PE4163 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
Frequency Range	DC		4	GHz
Operating Voltage (AC)			375	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Insulation Resistance	1,000			MOhms

Mechanical Specifications

Size

Length	1.02 in [25.91 mm]
Width/Dia.	0.345 in [8.76 mm]
Weight	0.012 lbs [5.44 g]
Mating Cycles	500 Cycles

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 75 Ohm SMB Jack Connector Crimp/Solder Attachment for PE-B150, RG180, RG195 PE4163

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

© 2020 Pasternack Enterprises All Rights Reserved



75 Ohm SMB Jack Connector Crimp/Solder Attachment for PE-B150, RG180, RG195

Material Specifications

Description	Material	Plating
Contact	Brass	Gold
Insulation	PTFE	
Body	Brass	Nickel
Crimp Sleeve	Brass	Brass

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

75 Ohm SMB Jack Connector Crimp/Solder Attachment for PE-B150, RG180, RG195 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: 75 Ohm SMB Jack Connector Crimp/Solder Attachment for PE-B150, RG180, RG195 PE4163

URL: https://www.pasternack.com/smb-jack-standard-rg180-rg195-connector-pe4163-p.aspx

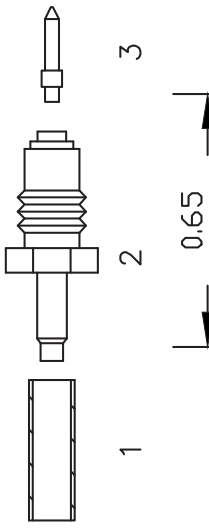
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such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

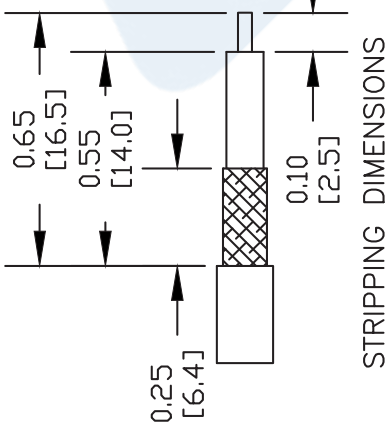
Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

© 2020 Pasternack Enterprises All Rights Reserved

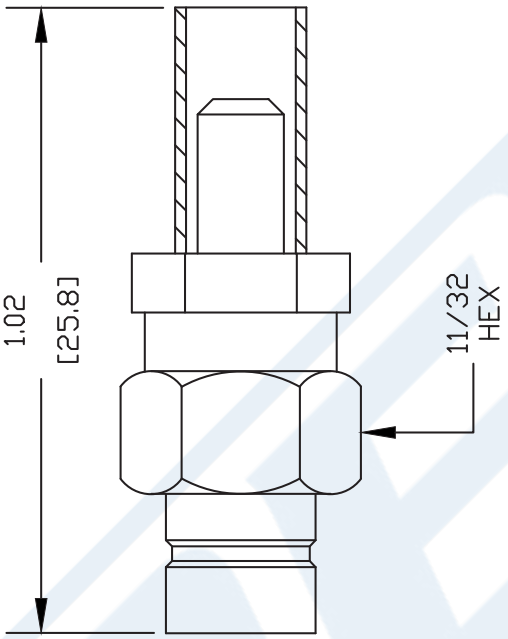
PE4163 CAD Drawing

75 Ohm SMB Jack Connector Crimp/Solder Attachment for PE-B150, RG180, RG195





STRIPPING DIMENSIONS



ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & SLIDE FERRULE (1) ONTO CABLE. TIN CENTER CONDUCTOR.
2. ADD CRIMP NUT (2) SLIDING EXTENSION BETWEEN BRAID & DIELECTRIC. SLIDE FERRULE (1) OVER BRAID & AGAINST CRIMP NUT (2).
3. SOLDER CONTACT (3) TO CENTER CONDUCTOR.
4. THREAD CRIMP NUT (2) INTO BODY & TIGHTEN. CRIMP FERRULE (1).

CRIMP SIZE REQUIRED

CONTACT: SOLDER
FERRULE: .178" HEX CRIMP TOOL

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].
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

DWG TITLE	REV. -	FSCM NO. 53919	CAD FILE 042309	SCALE N/A	SIZE A	147
PE4163						

PASTERNACK®
Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | **Fax:** (949) 261-7451
Website: www.pasternack.com | **E-Mail:** sales@pasternack.com

© 2020 Pasternack Enterprises All Rights Reserved

PASTERNACK®
THE ENGINEER'S RF SOURCE



75 Ohm SMC Plug Connector Crimp/Solder Attachment for PE-B150, RG180, RG195

Configuration

- SMC Plug Connector
- MIL-STD-348
- 75 Ohms
- Straight Body Geometry
- PE-B150, RG180, RG195 Interface Type
- Crimp/Solder Attachment
- 3/8 inch Hex

Features

- Max. Operating Frequency 2 GHz
- Gold Plated Contact
- Contact plating according to MIL-G-45204

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4158 75 ohm SMC plug connector with crimp/solder attachment for PE-B150, RG180 and RG195 is part of our full line of RF components available for same-day shipping. Our SMC plug connector operates up to a maximum frequency of 2 GHz.

Our 75 ohm SMC plug connector PE4158 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
Frequency Range	DC		2	GHz
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			750	Vrms
Insulation Resistance	1,000			MOhms

Mechanical Specifications

Size

Length	0.87 in [22.1 mm]
Width/Dia.	0.375 in [9.53 mm]
Weight	0.013 lbs [5.9 g]
Mating Torque	3 to 5 in-lbs [0.34 to 0.57 Nm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 75 Ohm SMC Plug Connector Crimp/Solder Attachment for PE-B150, RG180, RG195 PE4158

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

© 2016 Pasternack Enterprises All Rights Reserved

PASTERNACK®
THE ENGINEER'S RF SOURCE



75 Ohm SMC Plug Connector Crimp/Solder Attachment for PE-B150, RG180, RG195

RF Connectors Technical Data Sheet PE4158

Material Specifications

Description	Material	Plating
Contact		Gold MIL-G-45204
Insulation	PTFE	
Body	Brass	Nickel QQ-N-290

Environmental Specifications

Temperature

Operating Range	-65 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

75 Ohm SMC Plug Connector Crimp/Solder Attachment for PE-B150, RG180, RG195 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% 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: 75 Ohm SMC Plug Connector Crimp/Solder Attachment for PE-B150, RG180, RG195 PE4158

URL: https://www.pasternack.com/smc-plug-standard-rg180-rg195-connector-pe4158-p.aspx

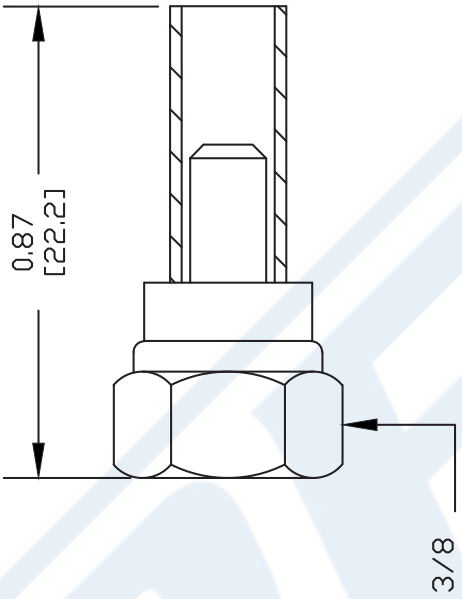
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such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

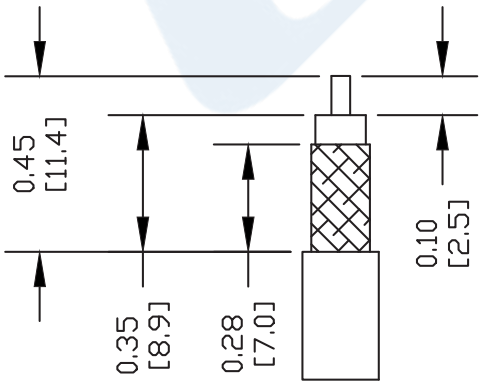
Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

© 2016 Pasternack Enterprises All Rights Reserved

PE4158 CAD Drawing

75 Ohm SMC Plug Connector Crimp/Solder Attachment for PE-B150, RG180, RG195





STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER
FERRULE: .178" HEX CRIMP TOOL

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].
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

DWG TITLE	REV. -	FSCM NO. 53919	CAD FILE 042309	SCALE N/A	SIZE A	147
PE4158						

PASTERNACK®
Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | **Fax:** (949) 261-7451
Website: www.pasternack.com | **E-Mail:** sales@pasternack.com

© 2016 Pasternack Enterprises All Rights Reserved

PASTERNACK®
THE ENGINEER'S RF SOURCE



75 Ohm Flexible PE-B150 Coax Cable Single Shielded with Black PVC Jacket

RF Cables Technical Data Sheet PE-B150

Configuration

Flexible Cable
1 Number of Shields

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5	GHz
Impedance		75		Ohms
Operating Voltage (AC)			600	Vrms
Nominal Capacitance		20.5 [67.26]		pF/ft [pF/m]

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	10	100	400	700	1,000	MHz
Attenuation, Typ	2.4 7.87	5.7 18.7	12.1 39.7	16.5 54.13	20 65.62	dB/100ft dB/100m
Input Power (CW), Max	195	83	40	30	25	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	5					GHz
Attenuation, Typ	50 164.04					dB/100ft dB/100m

Mechanical Specifications

Diameter	0.15 in [3.81 mm]
Weight	0.019 lbs/ft [0.03 Kg/m]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, 7 Strands	0.017in [0.43 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 75 Ohm Flexible PE-B150 Coax Cable Single Shielded with Black PVC Jacket PE-B150

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

© 2015 Pasternack Enterprises All Rights Reserved

75 Ohm Flexible PE-B150 Coax Cable Single Shielded with Black PVC Jacket

RF Cables Technical Data Sheet PE-B150

Dielectric	PE	0.1 in [2.54 mm]
First Shield	Tinned Copper Braid	
Jacket	PVC, Black	0.15 in [3.81 mm]

Environmental Specifications

Temperature

Operating Range -40 to 80 deg C

Compliance Certifications (visit www.Pasternack.com for current document)

Not RoHS Compliant

Plotted and Other Data

Notes:

75 Ohm Flexible PE-B150 Coax Cable Single Shielded with Black PVC Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% 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: 75 Ohm Flexible PE-B150 Coax Cable Single Shielded with Black PVC Jacket PE-B150

URL: http://www.pasternack.com/flexible-0.150-mini-75-ohm-coax-cable-pvc-jacket-pe-b150-p.aspx

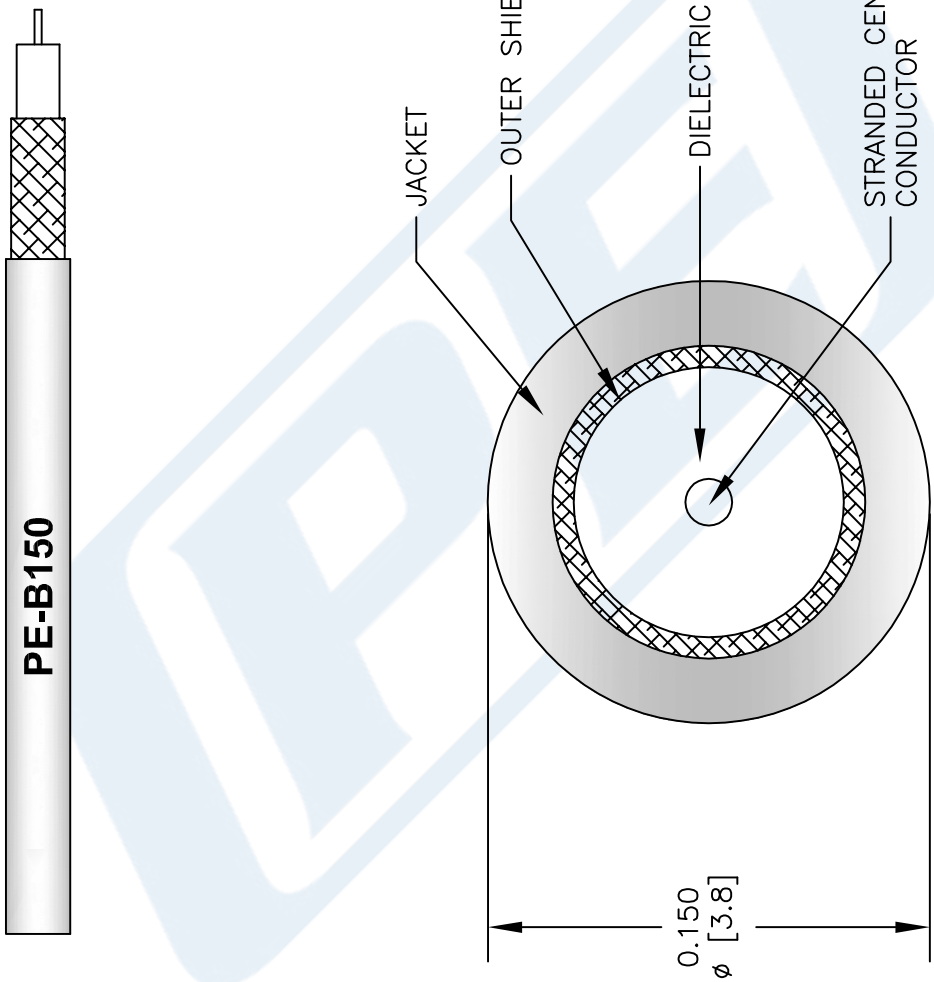
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such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

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

© 2015 Pasternack Enterprises All Rights Reserved

PE-B150 CAD Drawing

75 Ohm Flexible PE-B150 Coax Cable Single Shielded with Black PVC 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: PE-B150

FSCM NO. 53919 | CAD FILE 042809 | SCALE N/A | SIZE A | 127

PASTERNACK®
Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | **Fax:** (949) 261-7451
Website: www.pasternack.com | **E-Mail:** sales@pasternack.com

© 2015 Pasternack Enterprises All Rights Reserved