



## QMA Female Connector Solder Attachment for SPP-250-LLPL, Low PIM

### RF Connectors Technical Data Sheet

PE45429

#### Configuration

- QMA Female Connector
- 50 Ohms
- Straight Body Geometry

- SPP-250-LLPL Interface Type
- Solder/Solder Attachment

#### Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.3:1

- PIM levels lower than -150 dBc
- Silver Plated Brass Contact

#### Applications

- General Purpose Test
- Custom Cable Assemblies
- Low PIM Interconnects

- Distributed Antenna Systems (DAS)
- Low PIM Jumpers

- Low PIM Testing
- Low PIM Connections

#### Description

Pasternack's PE45429 QMA female connector with solder/solder attachment for SPP-250-LLPL is part of our full line of RF components available for same-day shipping. Our QMA female connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1. The QMA female connector also has low passive intermodulation of -150 dBc.

Our QMA female connector PE45429 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		6	GHz
VSWR			1.3:1	
Insertion Loss			0.1	dB
Passive Intermodulation			-150	dBc
Operating Voltage (AC)			250	Vrms
Insulation Resistance	5,000			MOhms

Electrical Specification Notes:  
Insertion Loss is  $0.04 * \text{sqrt}(F \text{GHz})$

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Female Connector Solder Attachment for SPP-250-LLPL, Low PIM PE45429](#)



## QMA Female Connector Solder Attachment for SPP-250-LLPL, Low PIM

### RF Connectors Technical Data Sheet

PE45429

#### Material Specifications

Description	Material	Plating
Contact	Brass	Silver
Insulation	PTFE	
Outer Conductor	Brass	Tri-Metal
Body	Brass	Tri-Metal

#### Environmental Specifications

##### Temperature

Operating Range

-55 to +165 deg C

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

#### Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Female Connector Solder Attachment for SPP-250-LLPL, Low PIM PE45429](#)

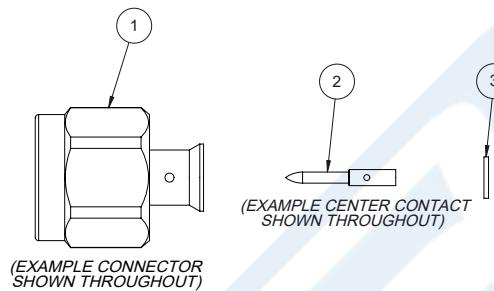


QMA Female Connector Solder Attachment  
for SPP-250-LLPL, Low PIM

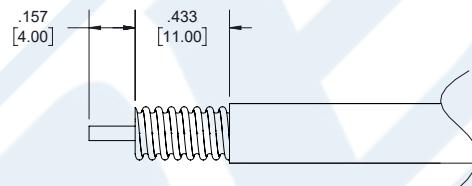
RF Connectors Technical Data Sheet

PE45429

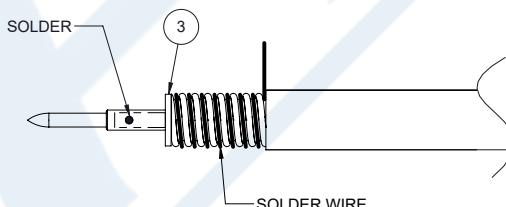
Assembly Instruction



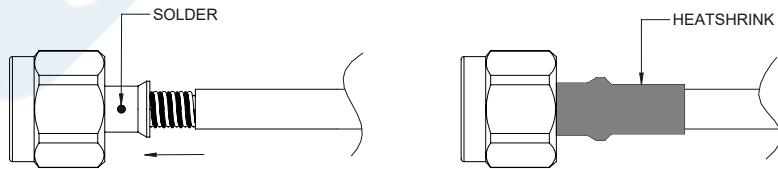
1. STRIP CABLE AS SHOWN, CHAMFER CENTER CONDUCTOR AND DEBURR CABLE.



2. SLIDE INSULATOR (3) OVER CABLE CENTER CONDUCTOR. INSERT CENTER CONTACT AND SOLDER. WRAP THE CABLE BY SOLDER WIRE.



3. PUSH THE CONNECTOR BODY INTO THE CABLE, UNTIL IT STOPS. SOLDER THE CONNECTOR BODY WITH CABLE AND COVER HEATSHRINK SLEEVE.



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Female Connector Solder Attachment for SPP-250-LLPL, Low PIM PE45429](#)



## QMA Female Connector Solder Attachment for SPP-250-LLPL, Low PIM

### RF Connectors Technical Data Sheet

PE45429

QMA Female Connector Solder Attachment for SPP-250-LLPL, Low PIM 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.

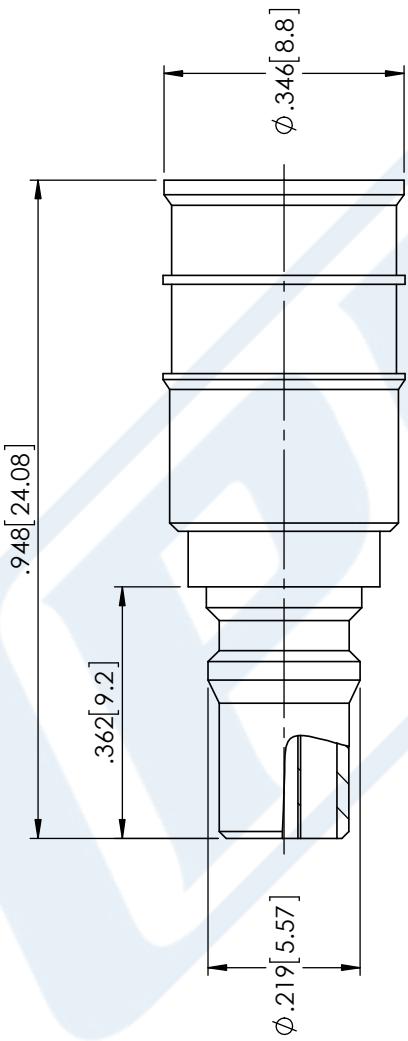
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Female Connector Solder Attachment for SPP-250-LLPL, Low PIM PE45429](#)

URL: <https://www.pasternack.com/qma-female-spp-250-llpl-connector-pe45429-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.

# PE45429 CAD Drawing

QMA Female Connector Solder Attachment for SPP-250-LLPL, Low PIM



STANDARD TOLERANCES		
X	± 0.2	
.XX	± 0.01	
.XXX	± 0.005	

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES

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

CAGE CODE	DWG TITLE	CAD FILE	SCALE	SIZE
53919	PE45429	11/22/17	N/A	A

CN2245



## SMA Female Connector Solder Attachment for SPP-250-LLPL, Low PIM

### RF Connectors Technical Data Sheet

PE45432

#### Configuration

- SMA Female Connector
- 50 Ohms
- Straight Body Geometry

- SPP-250-LLPL Interface Type
- Solder/Solder Attachment

#### Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.3:1
- PIM levels lower than -160 dBc
- Silver Plated Beryllium Copper Contact

#### Applications

• General Purpose Test	• Distributed Antenna Systems (DAS)	• Low PIM Testing
• Custom Cable Assemblies	• Low PIM Jumpers	• Low PIM Connections
• Low PIM Interconnects		

#### Description

Pasternack's PE45432 SMA female connector with solder/solder attachment for SPP-250-LLPL is part of our full line of RF components available for same-day shipping. Our SMA female connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1. The SMA female connector also has low passive intermodulation of -160 dBc.

Our SMA female connector PE45432 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		6	GHz
VSWR			1.3:1	
Insertion Loss			0.1	dB
Passive Intermodulation			-160	dBc
Operating Voltage (AC)			250	Vrms
Insulation Resistance	5,000			MOhms

Electrical Specification Notes:  
Insertion Loss is  $0.04 * \text{sqrt}(F \text{GHz})$

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Connector Solder Attachment for SPP-250-LLPL, Low PIM PE45432](#)



## SMA Female Connector Solder Attachment for SPP-250-LLPL, Low PIM

### RF Connectors Technical Data Sheet

PE45432

#### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Silver
Insulation	PTFE	
Outer Conductor	Brass	Tri-Metal
Body	Brass	Tri-Metal

#### Environmental Specifications

##### Temperature

Operating Range

-55 to +165 deg C

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

#### Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Connector Solder Attachment for SPP-250-LLPL, Low PIM PE45432](#)

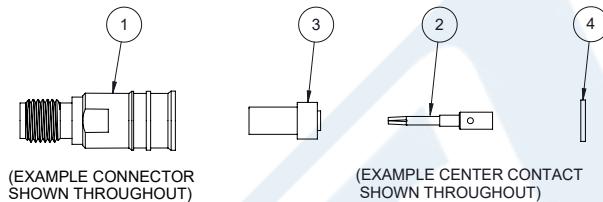


SMA Female Connector Solder Attachment  
for SPP-250-LLPL, Low PIM

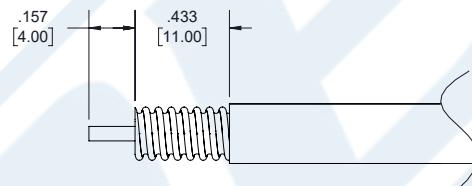
RF Connectors Technical Data Sheet

PE45432

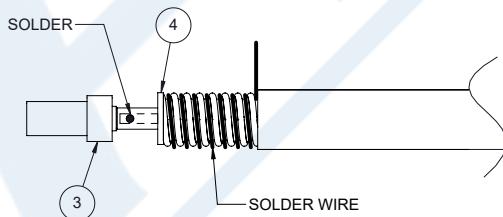
Assembly Instruction



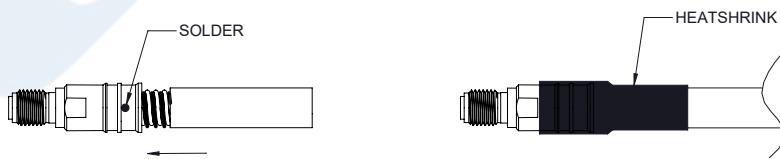
1. STRIP CABLE AS SHOWN, CHAMFER CENTER CONDUCTOR AND DEBURR CABLE.



2. SLIDE THICKER INSULATOR (3) OVER CENTER CONTACT AND SLIDE THINNER INSULATOR (4) OVER CABLE CENTER CONDUCTOR. INSERT CENTER CONTACT AND SOLDER. WRAP THE CABLE BY SOLDER WIRE.



3. PUSH THE CONNECTOR BODY INTO THE CABLE, UNTIL IT STOPS. SOLDER THE CONNECTOR BODY WITH CABLE AND COVER HEATSHRINK SLEEVE.



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Connector Solder Attachment for SPP-250-LLPL, Low PIM PE45432](#)



## SMA Female Connector Solder Attachment for SPP-250-LLPL, Low PIM

### RF Connectors Technical Data Sheet

PE45432

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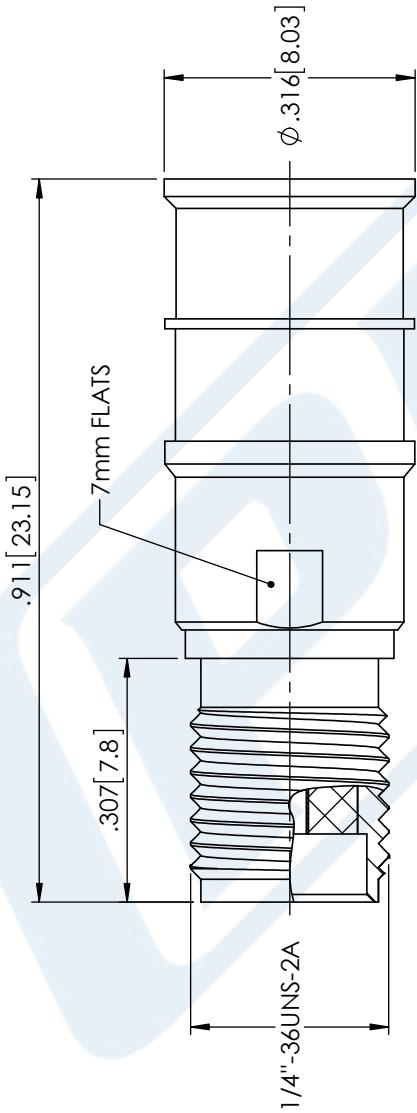
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URL: <https://www.pasternack.com/sma-female-spp-250-llpl-connector-pe45432-p.aspx>

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# PE45432 CAD Drawing

SMA Female Connector Solder Attachment for SPP-250-LLPL, Low PIM



STANDARD TOLERANCES		
X	± 0.2	
.XX	± 0.01	
.XXX	± 0.005	

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DWG TITLE	CAGE CODE	CAD FILE	SCALE	SIZE
PE45432	53919	11/23/17	N/A	A

CN2245

## Low Loss SPP-250-LLPL Plenum Rated Corrugated Coax Cable with Blue FEP Jacket Superflexible

### RF Cables Technical Data Sheet

#### Times Microwave Systems Coax Cable Specification

##### Configuration

- Low Loss, Plenum Corrugated Cable

##### Features

- PIM < -160 dBc
- UL910 Plenum Rated Cable
- Lightweight and Extremely Flexible
- Low Loss
- Great Shielding >100 dB
- UV Resistant Jacket

##### Applications

- Distributed Antenna Systems (DAS)
- Plenum Installations
- Small Cells
- Multi-Carrier Communication Systems
- PIM Testing

##### Description

SPP-250-LLPL low loss plenum rated coax cable by Times Microwave is part of our full line of RF components available for same-day shipping. The SPP-250-LLPL coaxial cable features a low loss dielectric, solid copper center conductor and a helically corrugated, copper outer conductor. These features combine to make the Times Microwave SPP-250-LLPL an extremely flexible, low PIM coax cable that is well suited for Distributed Antenna Systems (DAS), plenum installations or small cells. The tough, FEP jacket provides moisture and UV protection.

Our datasheet specifications and drawing with dimensions for Times Microwave SPP-250-LLPL coax cable are shown below in this PDF. Whether the need is to provide a low PIM jumper connection, low PIM feeder cable or simply create a custom cable assembly configuration, Pasternack has the right SPP-250-LLPL cable assemblies for the job.

##### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
Impedance	50			Ohms
Velocity of Propagation	76			%
Shielding Effectiveness	100			dB
Passive Intermodulation			-160	dBc
Inner Conductor DC Resistance		3		Ohms/1000ft
Nominal Capacitance	27 [88.58]			pF/ft [pF/m]
Nominal Inductance	0.067 [0.22]			uH/ft [uH/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss SPP-250-LLPL Plenum Rated Corrugated Coax Cable with Blue FEP Jacket Superflexible SPP-250-LLPL](#)



## Low Loss SPP-250-LLPL Plenum Rated Corrugated Coax Cable with Blue FEP Jacket Superflexible

### RF Cables Technical Data Sheet


**TIMES**  
 An Amphenol Company

**SPP-250-LLPL**

#### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.45	1.9	2.3	4.9	5.8	GHz
Attenuation, Typ	3.8	8.1	9	13.5	14.8	dB/100ft
	12.47	26.57	29.53	44.29	48.56	dB/100m
Input Power (CW), Max	1,010	470	430	280	260	Watts

#### Mechanical Specifications

Diameter	0.28 in [7.11 mm]
Weight	0.072 lbs/ft [0.11 Kg/m]
Min. Bend Radius (Installation)	1.25 in [31.75 mm]
Bending Moment	0.8 lbs-ft [1.08 N-m]

#### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strands	0.068 in [1.73 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.19 in [4.83 mm]
Outer Conductor	Copper Corrugated	0.25 in [6.35 mm]
Jacket	FEP, Blue	0.28 in [7.11 mm]

#### Environmental Specifications

Temperature	
Operating Range	-55 to +200 deg C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss SPP-250-LLPL Plenum Rated Corrugated Coax Cable with Blue FEP Jacket Superflexible SPP-250-LLPL](#)



## Low Loss SPP-250-LLPL Plenum Rated Corrugated Coax Cable with Blue FEP Jacket Superflexible

### RF Cables Technical Data Sheet

**T**  
**TIMES**  
MICROWAVE SYSTEMS  
An Amphenol Company

**SPP-250-LLPL**

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

#### Plotted and Other Data

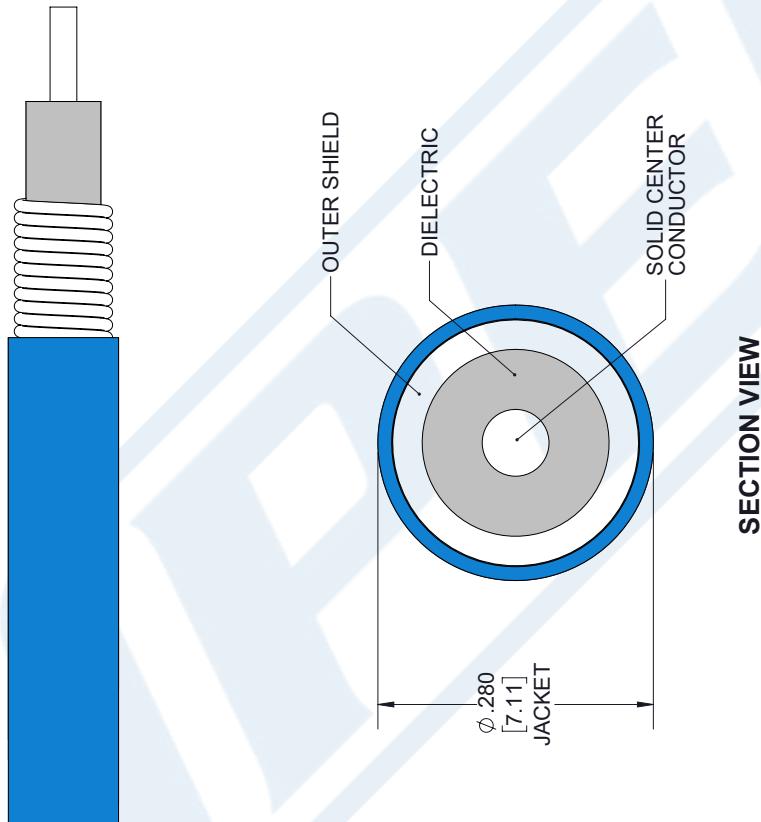
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Low Loss SPP-250-LLPL Plenum Rated Corrugated Coax Cable with Blue FEP Jacket Superflexible from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: <https://www.pasternack.com/low-loss-corrugated-spp250llpl-fep-jacket-spp-250-llpl-p.aspx>

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DWG TITLE	CAGE CODE	CAD FILE	SCALE	SIZE
SPP-250-LLPL	53919	022118	N/A	A

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