

## QMA Male Low PIM Connector Solder Attachment for SPP-250-LLPL, SPO-250, SPF-250, PE-1/4SFHC



### PE45430

#### Configuration

- QMA Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: SPP-250-LLPL, SPO-250, SPF-250, PE-1/4SFHC
- Low PIM Design

#### 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
- Wireless Communications
- Custom Cable Assemblies
- Low PIM Applications
- Low PIM Applications
- Distributed Antenna Systems (DAS)
- Low PIM Interconnects
- Low PIM Jumpers
- Low PIM Testing
- Low PIM Connections

#### Description

Pasternack's PE45430, QMA, Low PIM, Connector is part of our full line of RF components available for same-day shipping. Our QMA male connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1. The QMA male connector also has low passive intermodulation of -150 dBc.

Our QMA male connector PE45430 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
Impedance		50		Ohms

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

#### Mechanical Specifications

##### Size

Length	1 in [25.4 mm]
Width	0.42 in [10.67 mm]
Height	0.42 in [10.67 mm]
Weight	0.026 lbs [11.79 g]

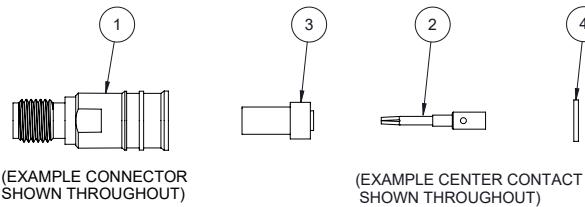


QMA Male Low PIM Connector Solder Attachment for  
SPP-250-LLPL, SPO-250, SPF-250, PE-1/4SFHC

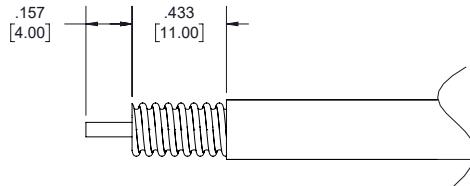


**PE45430**

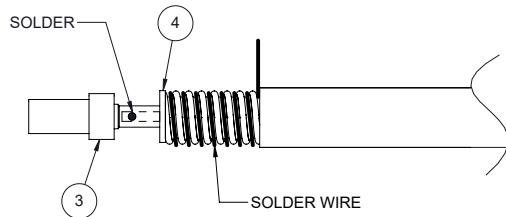
**Assembly Instruction**



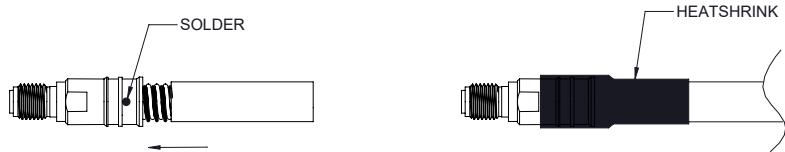
1. STRIP CABLE AS SHOWN, CHAMFER CENTER CONDUCTOR AND DEBURR CABLE.



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.



## QMA Male Low PIM Connector Solder Attachment for SPP-250-LLPL, SPO-250, SPF-250, PE-1/4SFHC



### PE45430

QMA Male Low PIM Connector Solder Attachment for SPP-250-LLPL, SPO-250, SPF-250, PE-1/4SFHC 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.

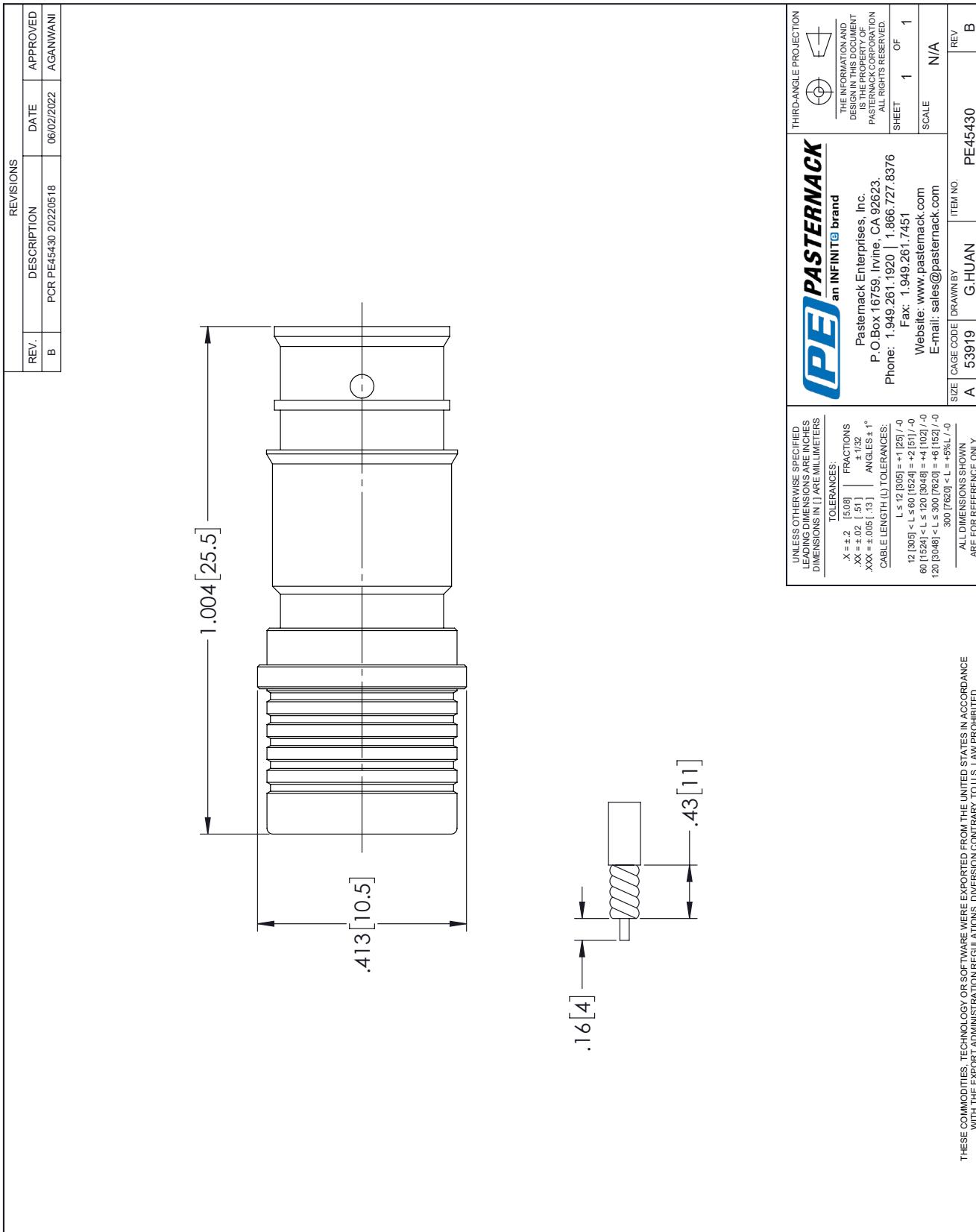
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Male Low PIM Connector Solder Attachment for SPP-250-LLPL, SPO-250, SPF-250, PE-1/4SFHC PE45430](#)

URL: <https://www.pasternack.com/qma-male-spp-250-llpl-connector-pe45430-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

# PE45430 CAD Drawing

QMA Male Low PIM Connector Solder Attachment for SPP-250-LLPL, SPO-250, SPF-250, PE-1/4SFHC



## QMA Male Low PIM Connector Solder Attachment for SPP-250-LLPL, SPO-250, SPF-250, PE-1/4SFHC



### PE45430

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#### Features

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#### Applications

- General Purpose Test
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**QMA Male Low PIM Connector Solder Attachment for  
SPP-250-LLPL, SPO-250, SPF-250, PE-1/4SFHC****PE45430****Material Specifications**

Description	Material	Plating
Contact	Brass	Silver
Insulation	PTFE	
Outer Conductor	Phosphor Bronze	Tri-Metal
Body	Brass	Tri-Metal
Coupling Nut	Brass	Tri-Metal
Gasket	Silicone Rubber	

**Environmental Specifications****Temperature**

Operating Range

-55 to +165 deg C

**Compliance Certifications** (see product page for current document)**Plotted and Other Data**

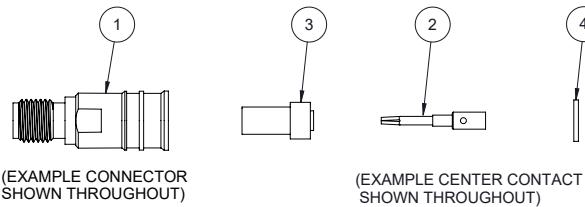
Notes:

QMA Male Low PIM Connector Solder Attachment for  
SPP-250-LLPL, SPO-250, SPF-250, PE-1/4SFHC

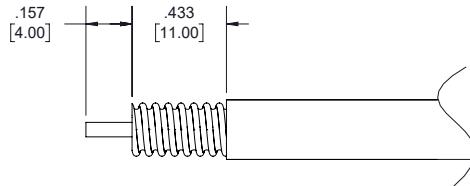


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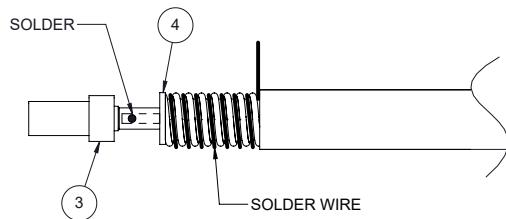
**Assembly Instruction**



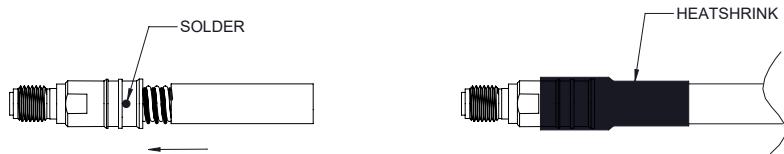
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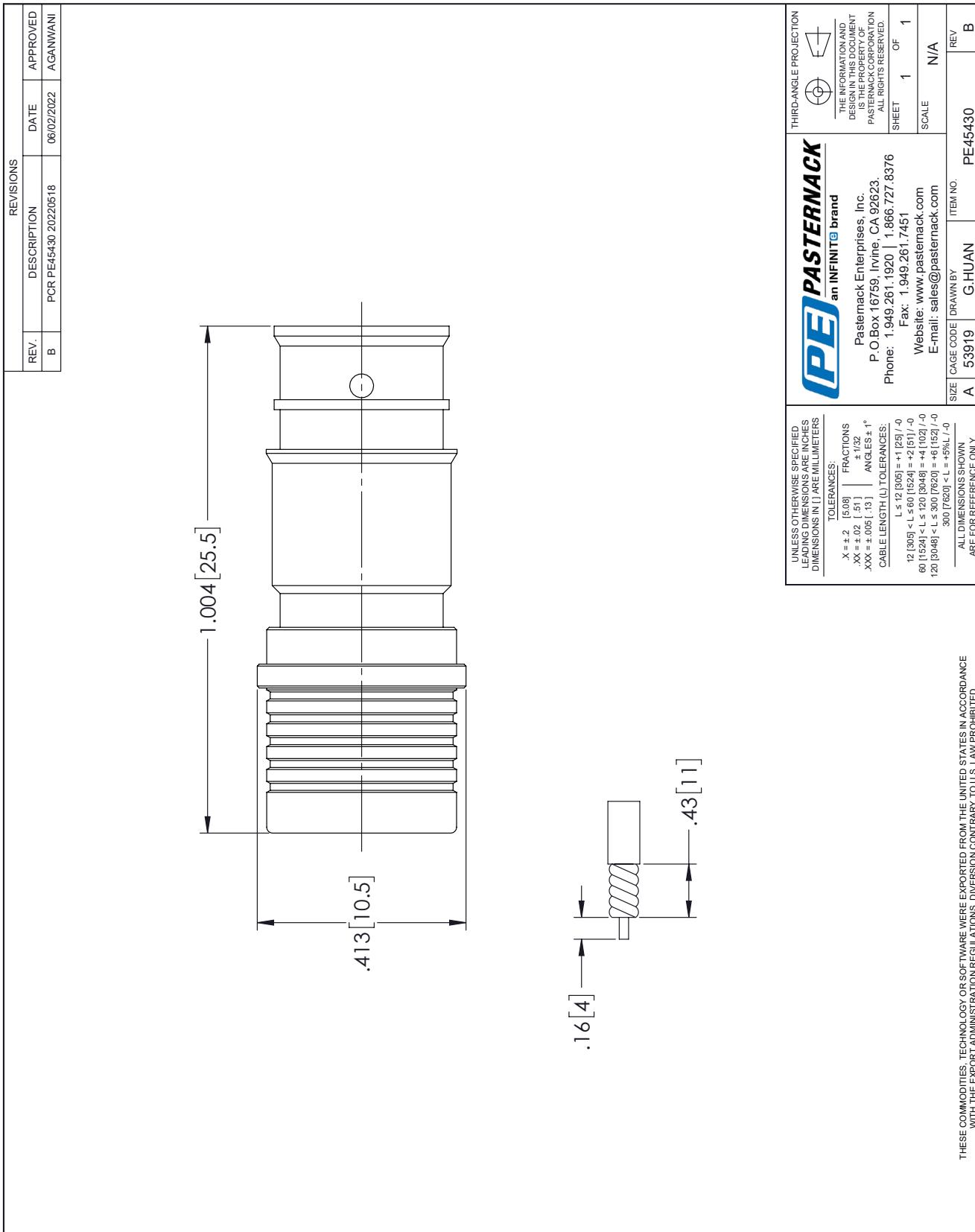
3. PUSH THE CONNECTOR BODY INTO THE CABLE, UNTIL IT STOPS. SOLDER THE CONNECTOR BODY WITH CABLE AND COVER HEATSHRINK SLEEVE.





# PE45430 CAD Drawing

QMA Male Low PIM Connector Solder Attachment for SPP-250-LLPL, SPO-250, SPF-250, PE-1/4SFHC



## 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

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## 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

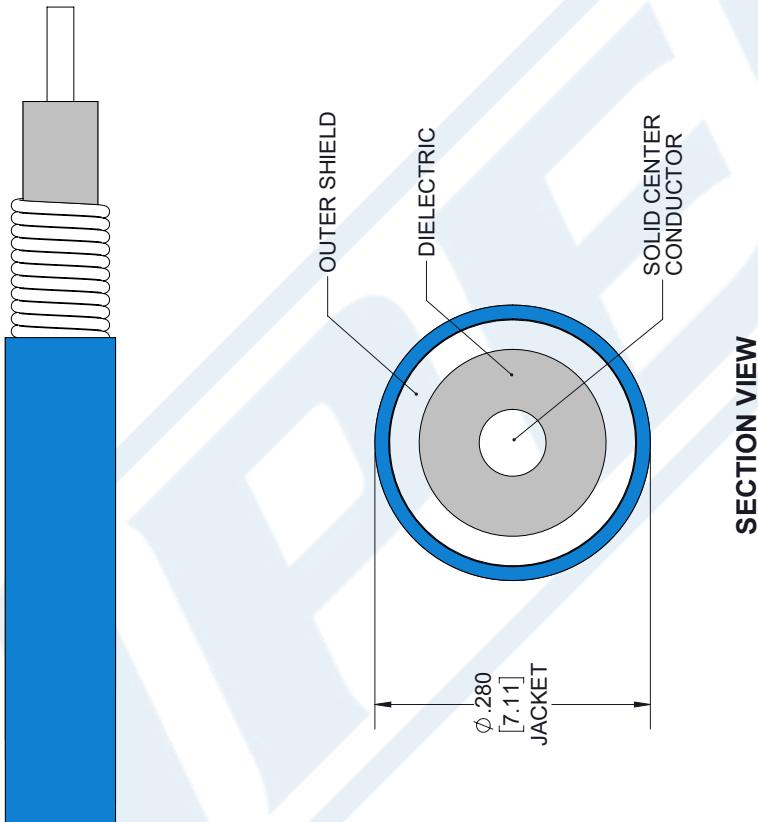
Notes:

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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STANDARD TOLERANCES		
.X	$\pm 0.2$	
.XX	$\pm 0.01$	
.XXX	$\pm 0.005$	

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES



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DWG TITLE	SPP-250-LLPL
CAGE CODE	53919

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].