

# N Male Low PIM Connector Solder Attachment for SPP-250-LLPL, SPO-250, SPF-250



RF Connectors
Technical Data Sheet



TC-250-NM-LP

# **Times Microwave Systems Connector Specification**

# Configuration

- N Male Connector
- 50 Ohms
- Straight Body Geometry

## **Features**

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.35:1
- PIM levels lower than -160 dBc

- Connector Interface Types: SPP-250-LLPL, SPO-250, SPF-250
- Low PIM Design
- Silver Plated Phosphor Bronze Contact
- 196 µin contact plating

## **Applications**

- General Purpose Test
- Wireless Communications
- Custom Cable Assemblies
- Low PIM Applications
- Distributed Antenna Systems (DAS)

#### Description

Times Microwave's TC-250-NM-LP type N male connector offered by Pasternack with solder/solder attachment for Times' SPP-250-LLPL, SPO-250 and SPF-250 is part of our full line of RF components available for same-day shipping. Times Microwave's type N male connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.35:1. The Times type N male connector also has low passive intermodulation of -160 dBc.

Times Microwave's type N male connector TC-250-NM-LP 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			1.35:1	
Insertion Loss			0.25	dB
Passive Intermodulation			-160	dBc
Operating Voltage (DC)			1,000	Vdc
Inner Conductor DC Resistance			1	mOhms
Outer Conductor DC Resistance			1.5	mOhms
Insulation Resistance	5,000			MOhms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male Low PIM Connector Solder Attachment for SPP-250-LLPL, SPO-250, SPF-250 TC-250-NM-LP

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# N Male Low PIM Connector Solder Attachment for SPP-250-LLPL, SPO-250, SPF-250



## **RF** Connectors **Technical Data Sheet**



#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 6				GHz
VSWR, Max	1.25:1	1.35:1				

**Electrical Specification Notes:** Insertion Loss is 0.1\*sqrt(FGHz)

#### **Mechanical Specifications**

Size

Length 1.13 in [28.7 mm] Width/Dia. 0.94 in [23.88 mm]

**Mating Torque** 7.08 to 9.74 in-lbs [0.80 to 1.10 Nm]

#### **Material Specifications**

Description	Material	Plating	
Contact	Phosphor Bronze	Silver 196 µin	
Insulation	PTFE		
Body	Brass	Tri-Metal 118 µin	
Coupling Nut	Brass	Tri-Metal 118 µin	
Gasket	Silicone Rubber		

#### **Environmental Specifications**

**Temperature** 

Operating Range -55 to +155 deg C

Humidity IP67

Shock US MIL-STD 202G Vibration US MIL-STD 202G Thermal Shock US MIL-STD 202G

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: N Male Low PIM Connector Solder Attachment for SPP-250-LLPL, SPO-250, SPF-250 TC-250-NM-LP

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# N Male Low PIM Connector Solder Attachment for SPP-250-LLPL, SPO-250, SPF-250



## **RF Connectors** Technical Data Sheet



N Male Low PIM Connector Solder Attachment for SPP-250-LLPL, SPO-250, SPF-250 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.

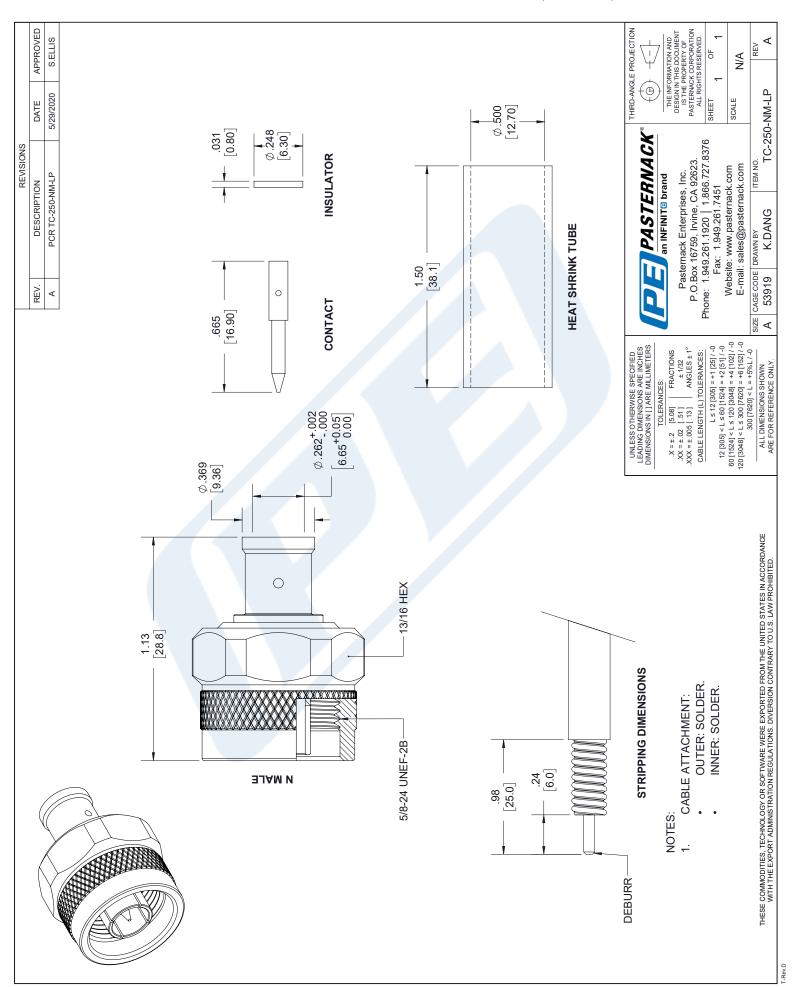
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male Low PIM Connector Solder Attachment for SPP-250-LLPL, SPO-250, SPF-250 TC-250-NM-LP

URL: https://www.pasternack.com/n-male-spp-250-llpl-spo-250-connector-tc-250-nm-lp-p.aspx

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# N Male Low PIM Connector Solder Attachment for SPP-250-LLPL, SPO-250, SPF-250









RF Connectors
Technical Data Sheet

PE45670

## Configuration

- NEX10 Female Connector
- •50 Ohms
- Straight Body Geometry

#### **Features**

- Max. Operating Frequency 6 GHz
- PIM levels lower than -160 dBc

- Connector Interface Types: PE-1/4SFHC, SPP-250-LL-PL, SPO-250, SPF-250
- Low PIM Design
- Silver Plated Bronze Contact

## **Applications**

- General Purpose Test
- Wireless Communications
- Custom Cable Assemblies
- Low PIM Applications

## **Description**

Pasternack's PE45670 NEX10 female connector with solder/solder attachment for PE-1/4SFHC, SPP-250-LLPL, SPO-250 and SPF-250 is part of our full line of RF components available for same-day shipping. Our NEX10 female connector operates up to a maximum frequency of 6 GHz. The NEX10 female connector also has low passive intermodulation of -160 dBc.

Our NEX10 female connector PE45670 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
Passive Intermodulation			-160	dBc
Dielectric Withstanding Voltage (AC)			750	Vrms

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 6				GHz
VSWR, Max	1.15:1	1.25:1				

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: NEX10 Female Low PIM Connector Solder Attachment for PE-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250 PE45670

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NEX10 Female Low PIM Connector Solder Attachment for PE-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250

RF Connectors
Technical Data Sheet

PE45670

#### **Mechanical Specifications**

Size

 Length
 0.9 in [22.86 mm]

 Width/Dia.
 0.39 in [9.91 mm]

 Weight
 0.02 lbs [9.07 g]

#### **Material Specifications**

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

#### **Environmental Specifications**

**Temperature** 

Operating Range -40 to +155 deg C

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

NEX10 Female Low PIM Connector Solder Attachment for PE-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250 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: NEX10 Female Low PIM Connector Solder Attachment for PE-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250 PE45670

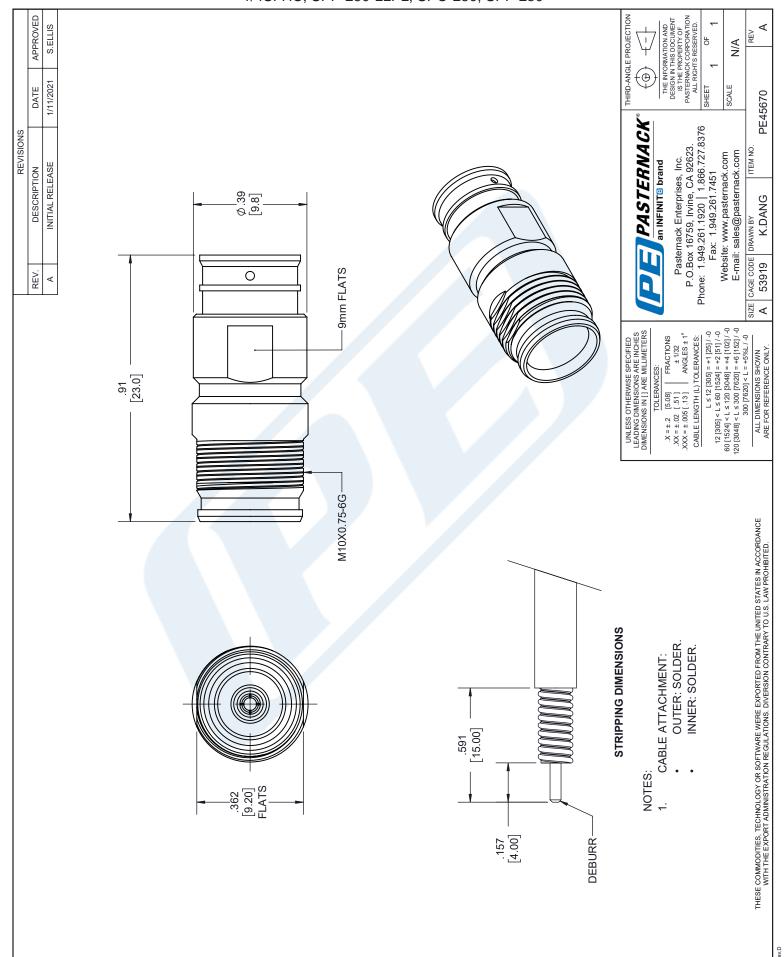
URL: https://www.pasternack.com/nex10-female-pe-1-4sfhc-spp-250-llpl-connector-pe45670-p.aspx

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# PE45670 CAD Drawing

NEX10 Female Low PIM Connector Solder Attachment for PE-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250







# 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</li>
- 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

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

# **RF Cables Technical Data Sheet**



#### **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 12.47	8.1 26.57	9 29.53	13.5 44.29	14.8 48.56	dB/100ft dB/100m
Input Power (CW), Max	1,010	470	430	280	260	Watts

## **Mechanical Specifications**

Diameter Weight

Min. Bend Radius (Installation) **Bending Moment** 

0.28 in [7.11 mm] 0.072 lbs/ft [0.11 Kg/m]

1.25 in [31.75 mm] 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**



Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

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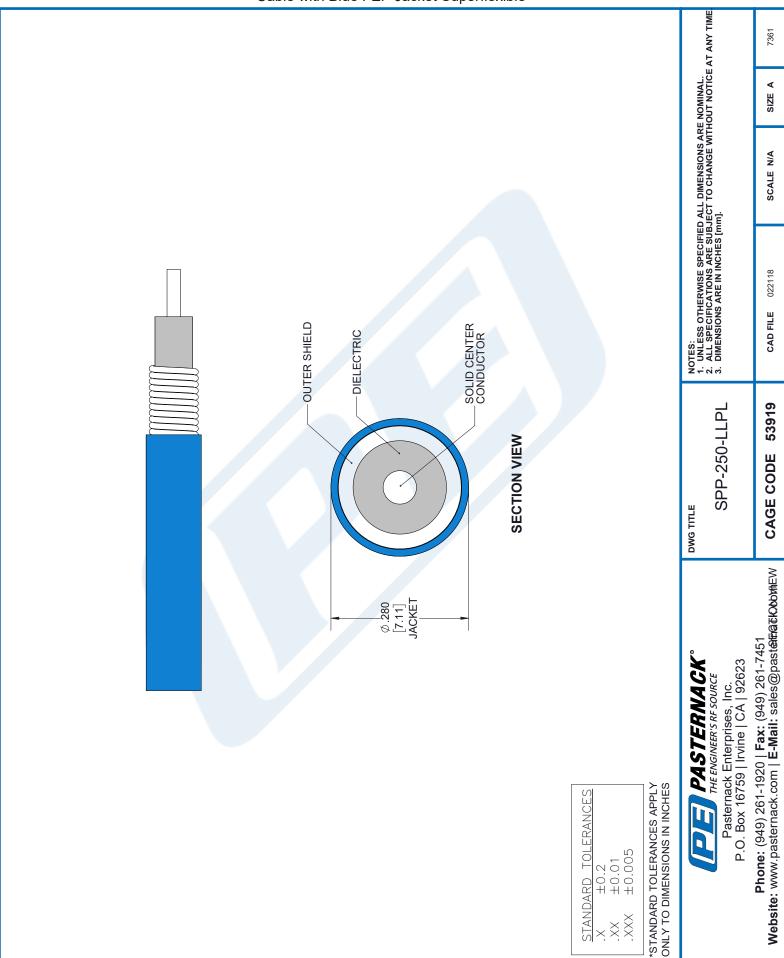
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URL: https://www.pasternack.com/low-loss-corrugated-spp250llpl-fep-jacket-spp-250-llpl-p.aspx

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# TIMES MICROWAVE SYSTEMS SPP-250-LLPL CAD Drawing Low Loss SPP-250-LLPL Plenum Rated Corrugated Coax

Cable with Blue FEP Jacket Superflexible



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