



SMA Male to N Male Ultra Flexible Test Cable 60 Inch Length Using PE-P142FLX Coax, RoHS

TECHNICAL DATA SHEET

PE3C0252-60

SMA Male to N Male Ultra Flexible Test Cable 60 Inch Length Using PE-P142FLX Coax, RoHS

The PE3C25X high performance, ultra-flexible test cables utilize our PE-P142FLX coax, a 0.195 inch diameter cable with a 70% phase velocity that offers high performance up to 18 GHz. This cable series is offered with precision Type N, and SMA stainless steel connectors all rated to 18 GHz. These RF test cables perform well in test environments where substantial flexure and bending is prevalent. A heavy duty boot provides improved strain relief at the connectors and adds to the durability to the assembly. Our PE-P142FLX cable assemblies are designed with a double shielded, flexible coaxial cable, which provides excellent shielding effectiveness greater than 95 dB. All PE3C25X cable assemblies are 100% continuity, Hi-POT, and RF tested to their published specifications. Custom lengths are built to order and shipped same day.

- Ultra-Flexible Specially Blended PVC Jacket
- 70% Velocity of Propagation (VoP)
- Shielding effectiveness > 95 dB
- Maximum VSWR is < 1.35:1 to 18 GHz
- Minimum Bend Radius of 1"
- Operating Temperature range of -55 to +105 °C
- RoHS and REACH Compliant
- Same day shipment of custom lengths
- 100% Continuity, Hi-Pot, and RF tested

Configuration

Connector 1	SMA Male
Connector 1 Specification	MIL-STD-348, Fig. 310-1
Connector 2	N Male
Cable Type	PE-P142FLX

Electrical Specifications

Frequency Range, GHz	DC to 18
Impedance, Ohms	50
Maximum VSWR	1.35:1
Velocity of Propagation, %	70

Typical Performance by Frequency

Frequency 1

Frequency, MHz	1000
Insertion Loss	0.12 dB/ft [0.39 dB/m]

Frequency 2

Frequency, GHz	3
Insertion Loss	0.21 dB/ft [0.69 dB/m]

Frequency 3

Frequency, GHz	5
Insertion Loss	0.28 dB/ft [0.92 dB/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to N Male Ultra Flexible Test Cable 60 Inch Length Using PE-P142FLX Coax, RoHS PE3C0252-60](#)

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.



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Frequency 4

Frequency, GHz	10
Insertion Loss	0.42 dB/ft [1.38 dB/m]

Frequency 5

Frequency, GHz	18
Insertion Loss	0.59 dB/ft [1.94 dB/m]

Mechanical Specifications

Cable Assembly

Cable Type	PE-P142FLX
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Temperature

Temperature Operating Range, deg C	-55 to +105
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Size

Length, in [cm]	60 [152.4]
Diameter, in [mm]	0.82 [20.83]
Weight, lbs [g]	0.4 [181.44]
Cable Color	Blue
Repeated Minimum Bend Radius, in [mm]	1 [25.4]

Cable

Center Conductor Type	Solid
No of Shields	3
Dielectric Type	PTFE
Jacket Diameter, in [mm]	0.195 [4.95]

Connector 1

Type	SMA Male
Configuration	Straight
Inner Conductor Material and Plating	Beryllium Copper, Gold
Inner Conductor Plating Specification	50µ In. Minimum
Coupling Nut Material and Plating	Passivated Stainless Steel
Coupling Nut Plating Specification	Passivated Stainless Steel
Hex Size, Inch	5/16
Torque, in-lbs [Nm]	8 [0.9]
Body Material and Plating	Passivated Stainless Steel
Body Plating Specification	SAE-AMS-2700
Dielectric Type	PTFE

Connector 2

Type	N Male
Configuration	Straight

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Inner Conductor Material and Plating	Beryllium Copper, Gold
Inner Conductor Plating Specification	50µ In. Minimum
Coupling Nut Material and Plating	Passivated Stainless Steel
Coupling Nut Plating Specification	Passivated Stainless Steel
Hex Size, Inch	3/4
Torque, in-lbs [Nm]	14 [1.58]
Body Material and Plating	Passivated Stainless Steel
Body Plating Specification	SAE-AMS-2700
Dielectric Type	PTFE

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

Plotted and Other Data
Notes:

Values at 25 °C, sea level

SMA Male to N Male Ultra Flexible Test Cable 60 Inch Length Using PE-P142FLX Coax, RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

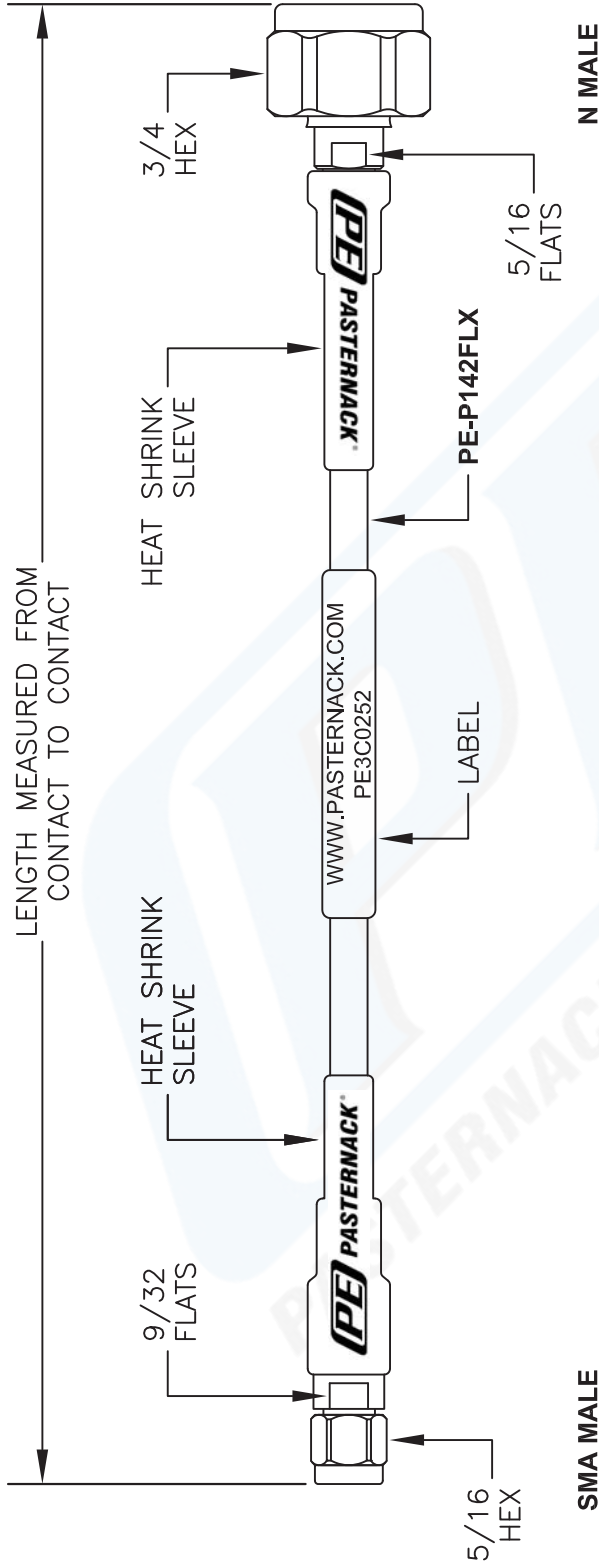
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PE3C0252-60 CAD Drawing
 SMA Male to N Male Ultra Flexible Test Cable 60 Inch
 Length Using PE-P142FLX Coax, RoHS



NOTE:
 LABEL FOR CABLE LENGTHS 48" OR SHORTER TO BE CENTERED. 48" OR LONGER WILL BE 12" AWAY FROM CONNECTOR.

Part Number Configuration		How To Order	
PE3	[ZZZ] - [XX] [UU]	Part # Ext.	Length In Inches
00 - 99999	< Blank > = Inches Length	-12	12"
		-24	24"
		-36	36"
		-48	48"
		-60	60"
		-XX	Custom Length
		-25CM	25Cm
		-50CM	50Cm
		-75CM	75Cm
		-100CM	100Cm
		-125CM	125Cm
		-XXCM	Custom Length

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. LENGTH TOLERANCE IS ± 1.5% OR 3/8", WHICHEVER IS GREATER.

DWG TITLE
PE3C0252

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