PASTERNACK®
THE ENGINEER'S RF SOURCE

N Male Connector Crimp/Solder Attachment for PE-C600, LMR-600, LMR-600-DB, 0.600 inch

RF Connectors Technical Data Sheet PE44454

Configuration

- N Male Connector
- 50 Ohms
- Straight Body Geometry
- PE-C600, LMR-600, LMR-600-DB, 0.600 inch Interface Type
- Crimp/Solder Attachment

Features

- Max. Operating Frequency 11 GHz
- Gold Plated Brass Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44454 type N male connector with crimp/solder attachment for PE-C600, LMR-600, LMR-600-DB and 0.600 inch is part of our full line of RF components available for same-day shipping. Our type N male connector operates up to a maximum frequency of 11 GHz.

Our type N male connector PE44454 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		11	GHz

Mechanical Specifications

Size

Length	2.04 in [51.82 mm]
Width/Dia.	0.86 in [21.84 mm]
Weight	0.165 lbs [74.84 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male Connector Crimp/Solder Attachment for PE-C600, LMR-600, LMR-600-DB, 0.600 inch PE44454

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
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RF Connectors Technical Data Sheet PE44454

Material Specifications

Description	Material	Plating
Contact	Brass	Gold
Insulation	PTFE	
Body	Brass	Tri-Metal
Coupling Nut	Brass	Tri-Metal

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

N Male Connector Crimp/Solder Attachment for PE-C600, LMR-600, LMR-600-DB, 0.600 inch 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.

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URL: https://www.pasternack.com/n-male-standard-pe-c600-connector-pe44454-p.aspx

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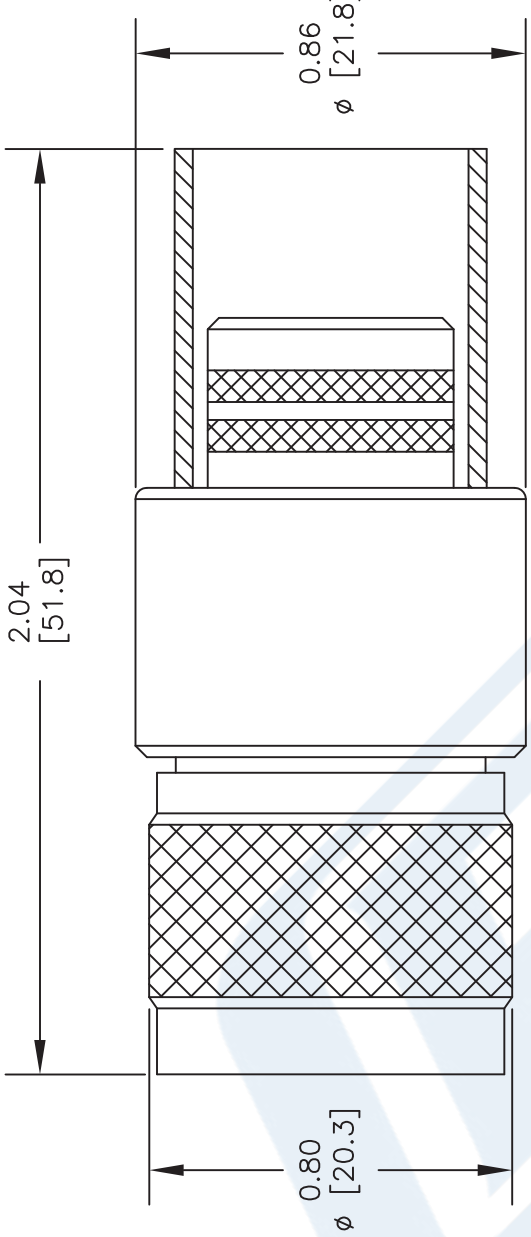
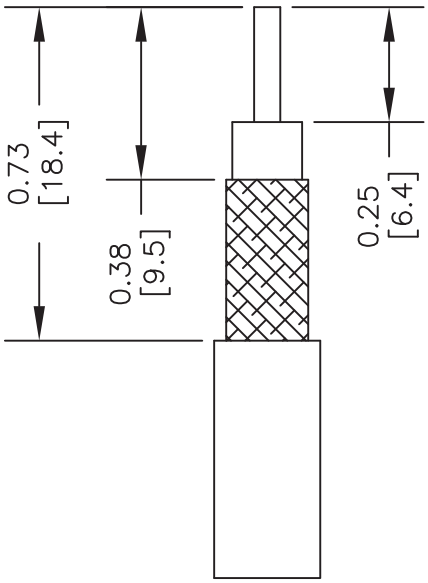
PE44454 CAD Drawing

N Male Connector Crimp/Solder Attachment for PE-C600, LMR-600, LMR-600-DB, 0.600 inch





STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER
FERRULE: .610 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.

CAD FILE	061810	SCALE N/A	SIZE A	2233

DWG TITLE **PE44454**

FSCM NO. 53919

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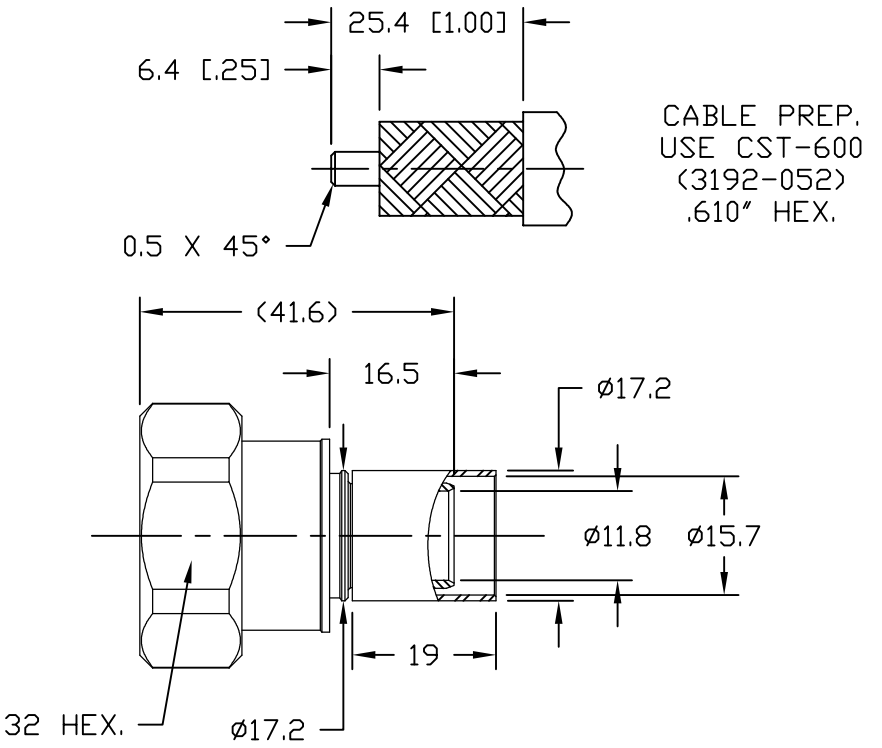
SYM	REVISION DESCRIPTION	DFTM	DATE	APPD	DATE
A	RELEASED FOR PRODUCTION	K.A.M.	5/23/11	J.D.B.	6/9/11
B	CHANGED PER CDC #37302	D.J.H.	3/22/13	J.D.B.	3/25/13



Reference Standard IEC60169-4

I. Electric Performance

Nominal Impedance(Ω):	50
Frequency Range:	DC-3GHz
VSWR:	≤1.15
Insert Loss(dB):	≤ 0.05
Insulation resistance(MΩ)	≥10000
Proof Voltage(V)	2500
Conductor resistance(mΩ)	outer conductor <0.2
	inner conductor <0.8

II. Mechanical Performance

Nut Torque	25N.m
(Nut)Whorl pull	1000N
Tensile force(cable-connect)	500N
Torsion(cable-connect)	5N.m

III. Material and plating

Component	Material	Plating
Inner conductor	Spring Copper	Ag 5μm
Outer conductor	Brass	Copper-tin-zinc 2μm
Tube	Copper	Copper-tin-zinc 2μm
Nut	Brass	Nickel 5μm
Gasket	Silicone Rubber	
Insulator	PTFE	

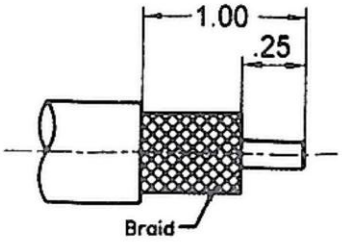
IV. Environment

Temp. range	-55℃~+155℃
Weather standard	IEC 60068 55 / 155/ 56
Thermal shock	US MIL-STD 202,Meth.107,Cond.B
Vibration	US MIL-STD 202,Meth.204,Cond.B
Shock	US MIL-STD 202,Meth.213,Cond.I
Waterproofing standard	IP68
ROHS Compliant	

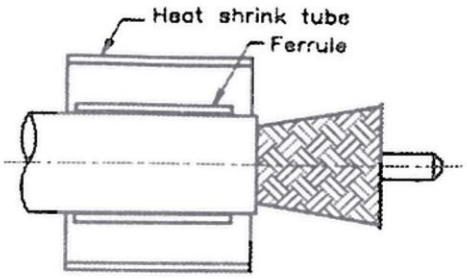
V. Assembly: inner conductor installed and outer conductor crimped

MATL:	UNLESS OTHERWISE SPECIFIED	DFTM. K. A. M.	TIMES MICROWAVE SYSTEMS		
	ALL DIMENSIONS ARE IN mm MACHINED SURFACES FINISH N/A RMS MAX. REMOVE ALL BURRS N/A MAX. BREAK MACHINE CORNERS N/A MAX. FILLET R. TOLERANCES ON DECIMALS .XX ± N/A .XXX ± N/A ANGLES ± 1° FRACTIONS ± N/A	DATE 5/23/11			
USED ON: O-O		CHKD. J. D. B.	EZ-600-716M-X 7-16 MALE FOR LMR-600 CABLE EZ/CRIMP/NO BRAID TRIM		
		DATE 6/9/11			
		APPD. J. D. B.			
SCALE: N/A	DWG. SIZE A / DO NOT SCALE DRAWING / CODE IDENT 68999	DATE 6/9/11	SHT. 1 of 1	SD3190-2643	REV. B

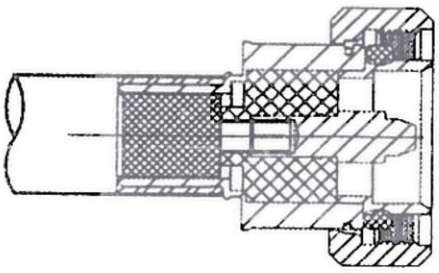
Installation Instruction



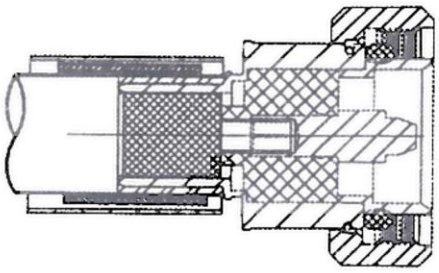
1. A. Trim cable to dimensions shown. Be careful to avoid nicking the braid
   B. Remove any residual plastic from center conductor
   C. Deburr center conductor using a fine file or Times DBT–U tools
   D. Avoid nicking aluminum tape or center conductor



2. A. Slide crimp ferrule and heat shrink tube over the cable
   B. Flare the braid



3. A. Insert Cable into connector body until dielectric is seated and center conductor is inserted fully into connector center pin.



4. A. Slide crimp ferrule over braid and crimp as close to body as possible using .429" HEX crimp tooling Pay attention to the crimp area, do not crimp rear of crimp sleeve
   B. Heat shrink tube over rear of connector body and down on to cable jacket using hot air gun

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Low Loss Flexible .600 inch Foam Dielectric Type Coax Cable Double Shielded with Black PE Jacket

TECHNICAL DATA SHEET PE-C600

Low Loss Flexible .600 inch Foam Dielectric Type Coax Cable Double Shielded with Black PE Jacket

Configuration

Cable Design	Low Loss
Inner Conductor Material and Plating	Copper Clad Aluminum
Dielectric Type	PE (F)
Shield Materials	Aluminum Tape, Tinned Copper Braid
Jacket Material and Color	PE, Black

Electrical Specifications

Impedance, Ohms	50
Velocity of Propagation, %	87
Maximum Operating Frequency, GHz	5.8
RF Shielding, dB	90
Capacitance, pF/ft [pF/m]	23.4 [76.77]
Jacket Spark, Vrms	5,000
Peak Power, KWatts	40

Electrical Specifications by Frequency

Frequency 1

Frequency, MHz	150
Attenuation, dB/100ft [dB/100m]	1 [3.28]
Power Handling, KWatts	2.16

Frequency 2

Frequency, MHz	450
Attenuation, dB/100ft [dB/100m]	1.7 [5.58]
Power Handling, KWatts	1.23

Frequency 3

Frequency, MHz	900
Attenuation, dB/100ft [dB/100m]	2.5 [8.2]
Power Handling, Watts	840

Frequency 4

Frequency, GHz	1.5
Attenuation, dB/100ft [dB/100m]	3.3 [10.83]
Power Handling, Watts	630

Frequency 5

Frequency, GHz	1.8
Attenuation, dB/100ft [dB/100m]	3.7 [12.14]
Power Handling, Watts	570

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: Low Loss Flexible .600 inch Foam Dielectric Type Coax Cable Double Shielded with Black PE Jacket PE-C600

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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Low Loss Flexible .600 inch Foam Dielectric Type Coax Cable Double Shielded with Black PE Jacket

TECHNICAL DATA SHEET PE-C600

Frequency 6

Frequency, GHz	2
Attenuation, dB/100ft [dB/100m]	3.9 [12.8]
Power Handling, Watts	540

Frequency 7

Frequency, GHz	2.5
Attenuation, dB/100ft [dB/100m]	4.4 [14.44]
Power Handling, Watts	480

Frequency 8

Frequency, GHz	5.8
Attenuation, dB/100ft [dB/100m]	7.3 [23.95]
Power Handling, Watts	290

Mechanical Specifications

Temperature

Operating Range, deg C	-40 to +85
Storage Range, deg C	-40 to +85

Inner Conductor

Number of Strands	1
Material	Copper Clad Aluminum
Diameter, in [mm]	0.176 [4.47]

Dielectric:

Type	PE (F)
Diameter, in [mm]	0.455 [11.56]

Shield:

Number of	2
Material 1	Aluminum Tape
Material 2	Tinned Copper Braid
Diameter, in [mm]	0.49 [12.45]

Jacket:

Material	PE
Diameter, in [mm]	0.59 [14.99]
Color	Black
Repeated Minimum Bend Radius, in [mm]	6 [152.4]
Weight, lbs/ft [Kg/m]	0.131 [0.19]

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

RoHS Compliant	Yes

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: Low Loss Flexible .600 inch Foam Dielectric Type Coax Cable Double Shielded with Black PE Jacket PE-C600

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Low Loss Flexible .600 inch Foam Dielectric Type Coax Cable Double Shielded with Black PE Jacket

TECHNICAL DATA SHEET PE-C600

Plotted and Other Data

Notes: Values at 25 °C, sea level

URL: http://www.pasternack.com/flexible-0.590-50-ohm-coax-cable-pe-jacket-pe-c600-p.aspx

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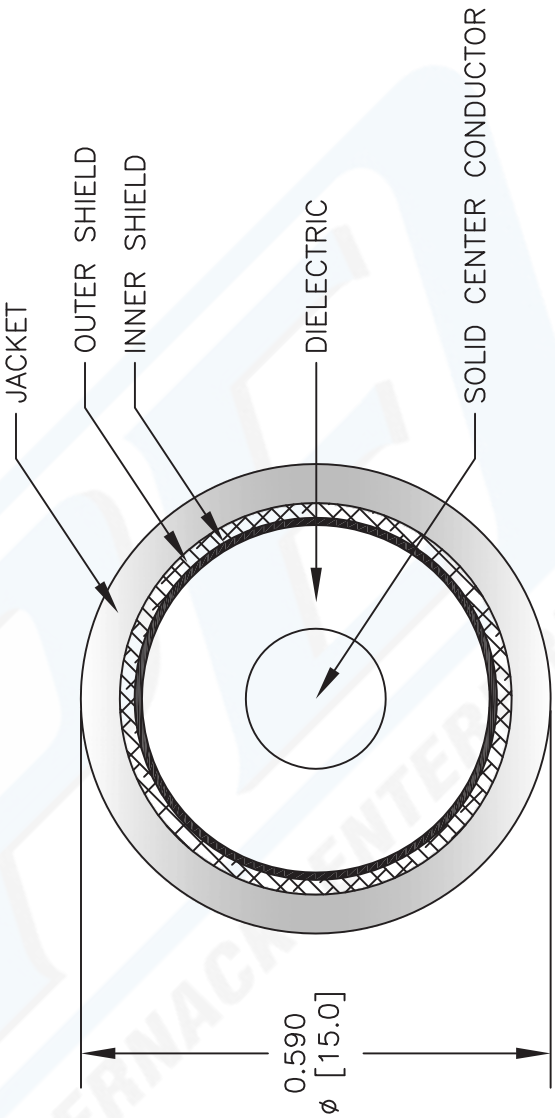
PE-C600 CAD Drawing

Low Loss Flexible .600 inch Foam Dielectric Type Coax
Cable Double Shielded with Black PE Jacket



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CAD FILE	SCALE	SIZE
042809	N/A	A

DWG TITLE: **PE-C600**

FSCM NO. 53919

2233

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