PASTERNACK®
THE ENGINEER'S RF SOURCE

QN Male Right Angle Snap-On Connector Crimp/Solder Attachment for LMR-400, PE-C400, LMR-400-DB

RF Connectors Technical Data Sheet PE45223

Configuration

- Snap-On QN Male Connector
- 50 Ohms
- Right Angle Body Geometry
- LMR-400, PE-C400, LMR-400-DB Interface Type
- Crimp/Solder Attachment

Features

- Operates to 6 GHz
- Quick Locking Snap On Connection
- Reduced connector to connector spacing
- 100 mating cycles
- No torque wrench required
- 360 degree rotation capability

Applications

- Telecommunication system
- Rack and Panel Mount Applications
- High connection density systems

Description

Pasternack's PE45223 Snap-On QN Male Right Angle connector is part of our full line of RF connectors available for same-day shipping. Our Male QN connector operates to 6 GHz. The PE45223 provides excellent VSWR of 1.5:1 maximum to 6 GHz. The PE45223 Pasternack RF connector is designed for use with LMR-400 and PE-C400 and is attached to the body using a crimp connection and the center contact employs a solder connection.

QN connectors allow for an easy snap-on connection that securely locks in place for an easy mating reliable connection. In addition to the time savings offered by the Snap-On interface the QMA interface allow for a tighter density than a Threaded N interface which requires the use of a torque wrench to properly complete the connection. The QN interface is operational to 6 GHz when used on LMR-400 Coaxial cable. This QN connector is QLF approved and insures intermateability with other QLF QN products.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.5:1	
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,500	
Insulation Resistance	5,000			MOhms

Mechanical Specifications

Size

Length	1.43 in [36.32 mm]
Width/Dia.	0.75 in [19.05 mm]
Height	1.28 in [32.51 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: QN Male Right Angle Snap-On Connector Crimp/Solder Attachment for LMR-400, PE-C400, LMR-400-DB PE45223

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

QN Male Right Angle Snap-On Connector Crimp/Solder Attachment for LMR-400, PE-C400, LMR-400-DB

Weight	0.091 lbs [41.28 g]
Mating Cycles	100 Cycles

Material Specifications

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

Environmental Specifications

Temperature

Operating Range	-55 to 125 deg C
Hermetic Seal	ATM. cm3/s

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

RoHS Compliant	
REACH Compliant	12/17/2015

Plotted and Other Data

Notes:

QN Male Right Angle Snap-On Connector Crimp/Solder Attachment for LMR-400, PE-C400, LMR-400-DB 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.

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: QN Male Right Angle Snap-On Connector Crimp/Solder Attachment for LMR-400, PE-C400, LMR-400-DB PE45223

URL: https://www.pasternack.com/qn-male-snap-on-lmr-400-pe-c400-lmr-400-db-connector-pe45223-p.aspx

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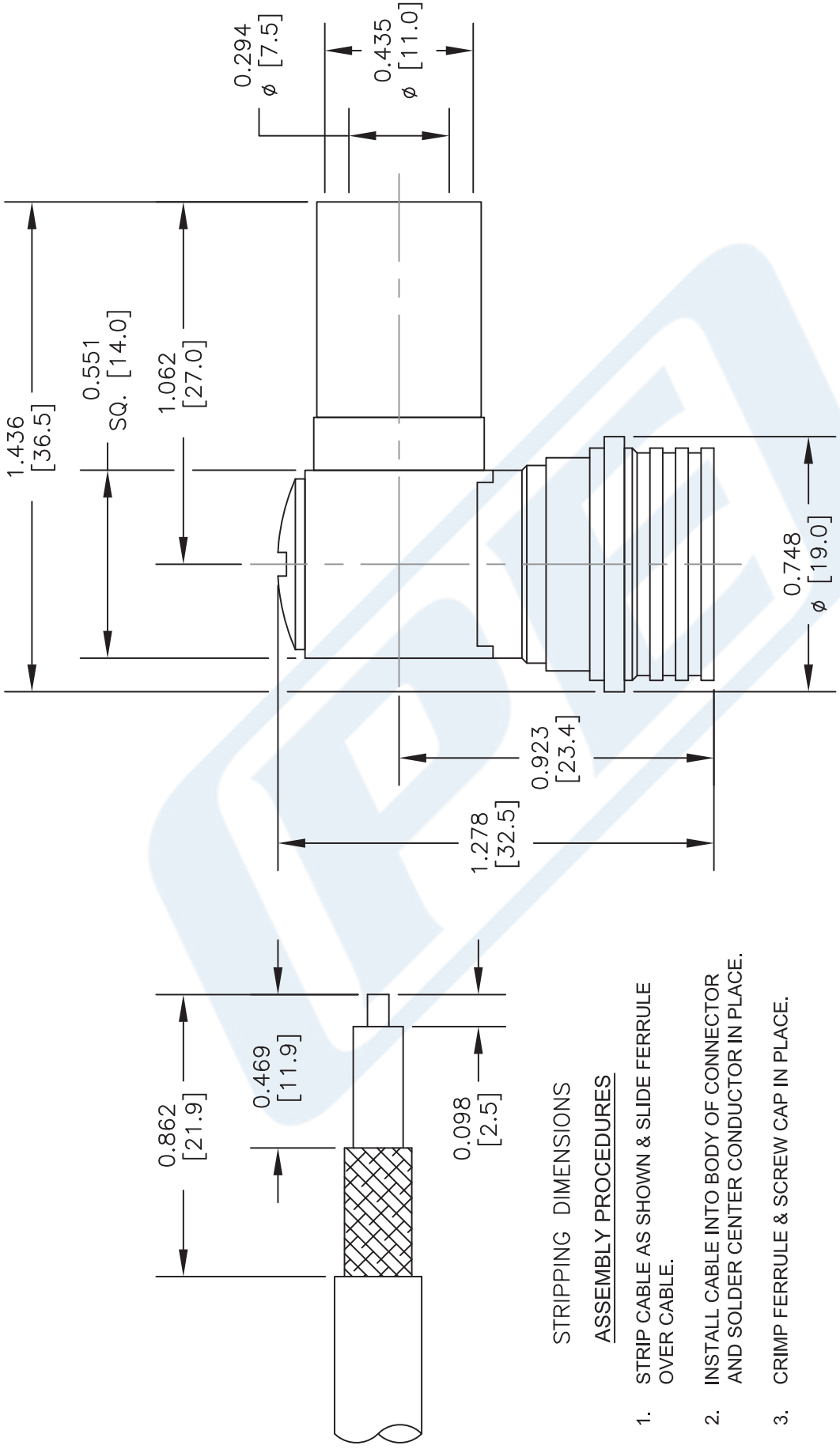
PE45223 CAD Drawing

QN Male Right Angle Snap-On Connector Crimp/Solder Attachment for LMR-400, PE-C400, LMR-400-DB



STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & SLIDE FERRULE OVER CABLE.
2. INSTALL CABLE INTO BODY OF CONNECTOR AND SOLDER CENTER CONDUCTOR IN PLACE.
3. CRIMP FERRULE & SCREW CAP IN PLACE.

CRIMP SIZE REQUIRED

CONTACT: SOLDER
FERRULE: .429" 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.

DWG TITLE **PE45223**

CAD FILE 062216 | SCALE N/A | SIZE A | 2233

FSCM NO. 53919

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N Female Bulkhead Connector Crimp/Solder Attachment For PE-C400, 0.400 inch, .640 inch DD Hole

RF Connectors
Technical Data Sheet

PE44530

Configuration

- N Female Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: .400 inch, LMR-400, LMR-400-DB, LMR-400-UF, PE-B405, PE-C400, PE-B400
- Bulkhead

Features

- Max. Operating Frequency 11 GHz
- Good VSWR of 1.3:1
- Gold Plated Brass Contact
- 30 µin minimum contact plating

Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

Description

Pasternack's PE44530 type N female bulkhead connector with crimp/solder attachment for .400 inch, LMR-400, LMR-400-DB, LMR-400-UF, PE-B405, PE-C400 and PE-B400 (.640 inch DD hole) is part of our full line of RF components available for same-day shipping. Our type N female connector operates up to a maximum frequency of 11 GHz and offers good VSWR of 1.3:1. This type N bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our type N female bulkhead connector PE44530 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
VSWR			1.3:1	
Operating Voltage (AC)			1,500	Vrms
Dielectric Withstanding Voltage (AC)			2,500	Vrms
Inner Conductor DC Resistance			1	mOhms
Outer Conductor DC Resistance			1	mOhms
Insulation Resistance	5,000			MOhms
RF Leakage	90			dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Female Bulkhead Connector Crimp/Solder Attachment For PE-C400, 0.400 inch, .640 inch DD Hole PE44530

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N Female Bulkhead Connector Crimp/Solder Attachment For PE-C400, 0.400 inch, .640 inch DD Hole

RF Connectors
Technical Data Sheet

PE44530

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 10					GHz
Insertion Loss, Max	0.15					dB

Mechanical Specifications

Size

Length	1.72 in [43.69 mm]
Width/Dia.	0.87 in [22.10 mm]
Weight	0.09 lbs [40.82 g]
Mating Cycles	500 Cycles

Material Specifications

Description	Material	Plating
Contact	Brass	Gold 30 µin minimum
Insulation	PTFE	
Body	Brass	Tri-Metal

Environmental Specifications

Temperature

Operating Range	-65 to +165 deg C
Vibration	MIL-STD-202, Method 204, Condition B
Temperature Cycle	MIL-STD-202, Method 107, Condition B
Salt Spray	MIL-STD-202, Method 101, Condition B

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 Female Bulkhead Connector Crimp/Solder Attachment For PE-C400, 0.400 inch, .640 inch DD Hole PE44530

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N Female Bulkhead Connector Crimp/Solder Attachment For PE-C400, 0.400 inch, .640 inch DD Hole

RF Connectors
Technical Data Sheet

PE44530

N Female Bulkhead Connector Crimp/Solder Attachment For PE-C400, 0.400 inch, .640 inch DD Hole 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 Female Bulkhead Connector Crimp/Solder Attachment For PE-C400, 0.400 inch, .640 inch DD Hole PE44530

URL: https://www.pasternack.com/n-female-standard-pe-c400-0.400-connector-pe44530-p.aspx

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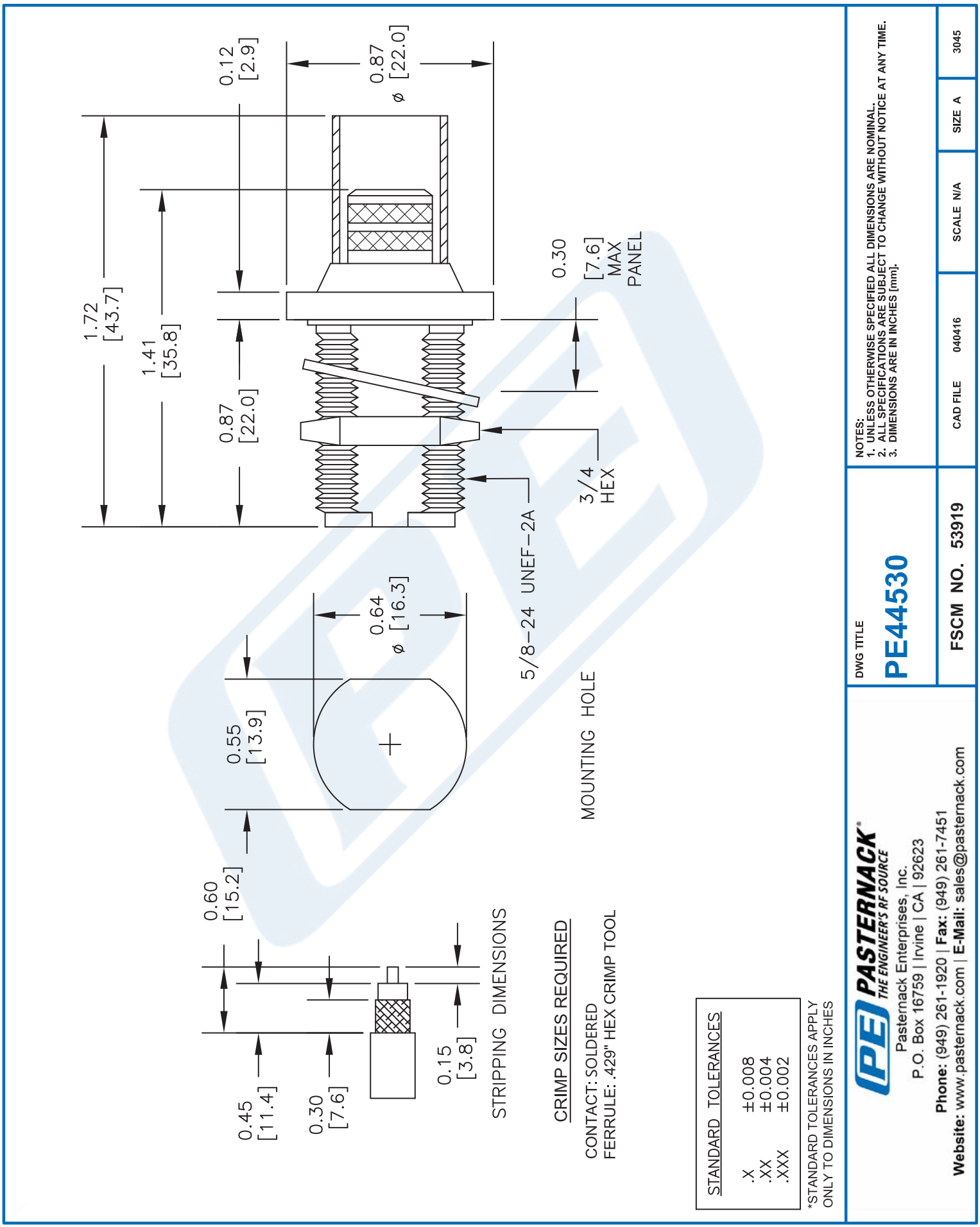
PE44530 CAD Drawing

N Female Bulkhead Connector Crimp/Solder Attachment
For PE-C400, 0.400 inch, .640 inch DD Hole



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Low PIM Flexible TCOM-400 Coax Cable Double Shielded with Black PE Jacket

RF Cables
Technical Data Sheet

TIMES MICROWAVE SYSTEMS
An Amphenol Company

TCOM-400

Times Microwave Systems Coax Cable Specification

Configuration

- Low PIM Flexible Cable
- 2 Shield(s)

Description

TCOM-400 part number from Pasternack is a low PIM coax cable that is flexible. Pasternack flexible coax RF cable has an impedance of 50 Ohm and a Foam PE dielectric. Our TCOM-400 coax cable is constructed with a 0.405-inch jacket made of polyethylene. This coaxial cable has a dielectric withstanding voltage of 2500 Vdc.

The TCOM-400 flexible RF cable has a shield count of 2 and RF shielding of 100 dB. Our coax cable from Pasternack has a maximum frequency of 10 GHz. The maximum passive intermodulation of this low PIM cable is -155 dBc. Additional specifications for this TCOM-400 double-shielded RF coaxial cable are on our downloadable PDF datasheet above.

Our TCOM-400 coax cable can operate at temperatures ranging from -40 to 85 degrees C. This black-colored flexible RF cable with a 50 Ohm impedance has a typical insertion loss/maximum attenuation of 15.7 dB/100ft at a frequency of 10 GHz. The TCOM-400 flexible RF cable has a solid copper clad aluminum center conductor. This coaxial cable features a dual shield of tinned copper braid over the silver plated copper braid.

Pasternack TCOM-400 low PIM coax cables are part of over 40,000 RF, microwave, and millimeter wave components. These flexible cables and our other RF parts are available for same-day shipping worldwide. Custom RF cable assemblies using TCOM-400 or other coax can be built and shipped the same business day as well.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
Impedance		50		Ohms
Velocity of Propagation		85		%
Time Delay		1.2 [3.94]		ns/ft [ns/m]
Shielding Effectiveness	100			dB
Passive Intermodulation			-155	dBc
Dielectric Withstanding Voltage (DC)			2,500	Vdc
Jacket Spark			8,000	Vrms
Inner Conductor DC Resistance			1.39	Ohms/1000ft
Outer Conductor DC Resistance			1.47	Ohms/1000ft
Nominal Capacitance		23.9 [78.41]		pF/ft [pF/m]
Nominal Inductance		0.06 [0.2]		uH/ft [uH/m]
Input Power (Peak)			16	kWatts

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: Low PIM Flexible TCOM-400 Coax Cable Double Shielded with Black PE Jacket TCOM-400

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Low PIM Flexible TCOM-400 Coax Cable Double Shielded with Black PE Jacket

RF Cables Technical Data Sheet

TIMES MICROWAVE SYSTEMS An Amphenol Company

TCOM-400

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.15	0.22	0.45	0.9	1.5	GHz
Attenuation, Typ	1.6	2	2.9	4.2	5.4	dB/100ft
	5.25	6.56	9.51	13.78	17.72	dB/100m
Input Power (CW), Max	1,380	1,130	780	540	410	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.8	2	2.5	5.8	10	GHz
Attenuation, Typ	6	6.4	7.2	11.5	15.7	dB/100ft
	19.69	21	23.62	37.73	51.51	dB/100m
Input Power (CW), Max	370	350	310	190	140	Watts

Mechanical Specifications

Diameter	0.405 in [10.29 mm}
Weight	0.08 lbs/ft [0.12 kg/m]
Min. Bend Radius (Installation)	1 in [25.4 mm]
Min. Bend Radius (Repeated)	4 in [101.6 mm]
Bending Moment	0.5 lbs-ft [0.68 N-m]
Tensile Strength	160 lbs [72.57 kg]
Flat Plate Crush	40 lbs/in [0.71 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Aluminum, 1 Strand	0.108 in [2.74 mm]
Conductor Type	Solid	
Dielectric	PE (F)	0.285 in [7.24 mm]
First Shield	Silver Plated Copper Braid	0.295 in [7.49 mm]

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Low PIM Flexible TCOM-400 Coax Cable Double Shielded with Black PE Jacket

Second Shield	Tinned Copper Braid	0.33 in [8.38 mm]
Jacket	PE, Black	0.405 in [10.29 mm]

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
Installation Range	-40 to +85 deg C
Storage Range	-70 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Low PIM Flexible TCOM-400 Coax Cable Double Shielded with Black PE Jacket 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: Low PIM Flexible TCOM-400 Coax Cable Double Shielded with Black PE Jacket TCOM-400

URL: https://www.pasternack.com/low-pim-flexible-tcom400-pe-jacket-silver-plated-copper-braid-over-tinned-copper-braid-outer-conductor-double-shielded-tcom-400-p.aspx

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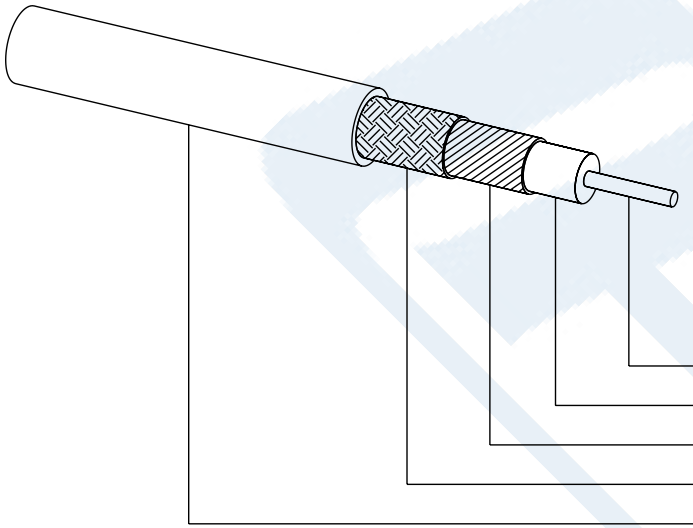
REVISION					
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	3/20/2023	KDANG	AGANWANI



Inner Conductor	∅.108 [2.74]	Solid BCCAl
Dielectric	∅.285 [7.24]	Foam PE (Polyethylene)
First Shield	∅.295 [7.49]	SPC Strip Braid
Second Shield	∅.330 [8.38]	TC Braid Over Al Tape
Jacket	∅.405 [10.29]	Black PE (Polyethylene)

TIMES MICROWAVE SYSTEMS An Amphenol Company

TCOM-400 CAD Drawing

Low PIM Flexible TCOM-400 Coax Cable Double Shielded with Black PE Jacket

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [5] | FRACTIONS ± 1/32
.XX = ±.02 [.5] | ANGLES ± 1°
.XXX = ±.005 [.13]

CABLE LENGTH TOLERANCES:

≤12 [305] = +1 [25] / -0
>12 [305] ≤ 60 [1524] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE	SHEET
NONE	1 OF 1

DESCRIPTION: Low PIM Flexible TCOM-400 Rated Coax Cable Double Shielded with Black PE Jacket

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	KDANG	TCOM-400	A