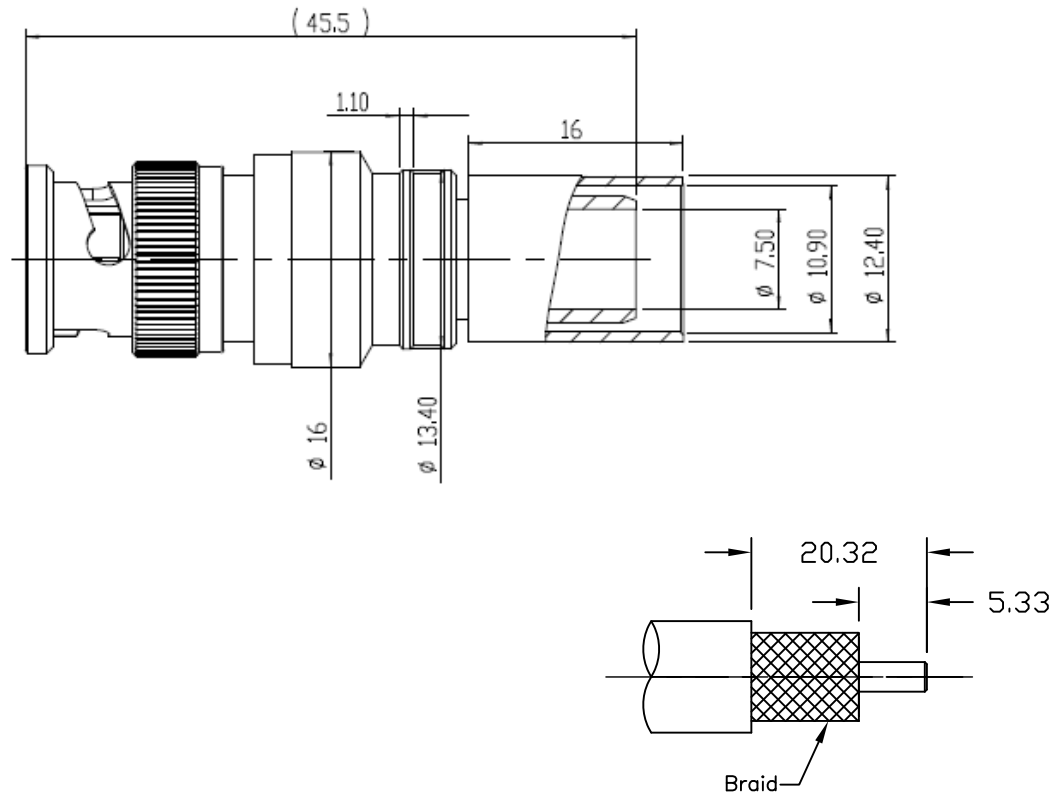


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| SYM | REVISION DESCRIPTION    | DFTM  | DATE   | APPD   | DATE   |
|-----|-------------------------|-------|--------|--------|--------|
| A   | RELEASED FOR PRODUCTION | N.N.N | 8/6/13 | J.D.B. | 8/9/13 |



Reference standard IEC60169-8

**I. Electric Performance**

Nominal Impedance( $\Omega$ ): 50  
Frequency Range: DC-4GHz  
VSWR:  $\leq 1.35$   
Insert Loss:  $\leq 0.1$   
Insulation resistance ( $M\Omega$ ):  $\geq 5000$   
Withstand voltage (V): 1500  
Conductor resistance ( $m\Omega$ ):  
outer conductor  $< 0.4$   
inner conductor  $< 1.5$

**II. Mechanical Performance**

Tensile force(cable-connect) 400N  
Torsion(cable-connect) 2N.m

**III. Material and plating:**

Component  
inner conductor Material Spring copper  
outer conductor Brass  
insulator PTFE  
o-ring Silicone rubber

Plating  
Au 1.27um  
Copper-tin-zinc 2um

**IV. Environment**

Temp.range -55°C~+155°C  
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  
ROHS compliant

V. Assemble: inner conductor installed and outer conductor crimped

|                |  |  |  |                                    |  |                         |  |             |  |       |  |
|----------------|--|--|--|------------------------------------|--|-------------------------|--|-------------|--|-------|--|
| MATL:          |  | UNLESS OTHERWISE SPECIFIED   |  | DFTM. N. N. N                      |  | TIMES MICROWAVE SYSTEMS |  |             |  |       |  |
|                |  | ALL DIMENSIONS ARE IN mm<br>MACHINED SURFACES FINISH N/A RMS MAX.<br>REMOVE ALL BURRS N/A MAX. BREAK<br>MACHINE CORNERS N/A MAX. FILLET R.<br>TOLERANCES ON DECIMALS<br>. XX ± N/A . XXX ± N/A<br>ANGLES ± N/A FRACTIONS ± N/A |  | DATE 8/6/13                        |  |                         |  |             |  |       |  |
| CHKD. J. D. B. |  |  |  | EZ-400-BM-X<br>BNCM<br>for LMR-400 |  |                         |  |             |  |       |  |
| DATE 8/9/13    |  |  |  |                                    |  |                         |  |             |  |       |  |
| APPD. J. D. B. |  |  |  |                                    |  |                         |  |             |  |       |  |
| USED ON: ~     |  |  |  |                                    |  | SHEET 1 of 1            |  | SD3190-2852 |  | REV A |  |
| SCALE: N/A     |  | DWG. SIZE A  |  | DO NOT SCALE DRAWING               |  | CODE IDENT 68999        |  | DATE 8/9/13 |  |       |  |



## 7/16 DIN Female Connector Crimp/Solder Attachment For PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF

### RF Connectors Technical Data Sheet

PE44546

#### Configuration

- 7/16 DIN Female Connector
- 50 Ohms
- Straight Body Geometry

- Connector Interface Types: PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF

#### Features

- Silver Plated Contact

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE44546 7/16 DIN female connector with crimp/solder attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB and LMR-400-UF is part of our full line of RF components available for same-day shipping.

Our 7/16 DIN female connector PE44546 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.

#### Mechanical Specifications

##### Size

|            |                     |
|------------|---------------------|
| Length     | 1.89 in [48.01 mm]  |
| Width/Dia. | 1.14 in [28.96 mm]  |
| Weight     | 0.195 lbs [88.45 g] |

##### Material Specifications

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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7/16 DIN Female Connector Crimp/Solder Attachment For PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF PE44546](#)



## 7/16 DIN Female Connector Crimp/Solder Attachment For PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF

### RF Connectors Technical Data Sheet

PE44546

#### Environmental Specifications

**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

7/16 DIN Female Connector Crimp/Solder Attachment For PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF 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: [7/16 DIN Female Connector Crimp/Solder Attachment For PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF PE44546](#)

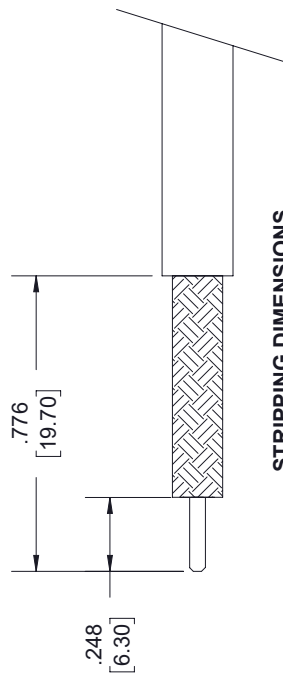
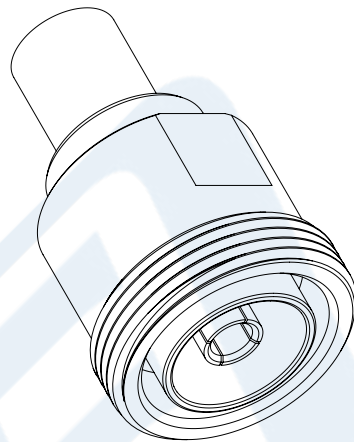
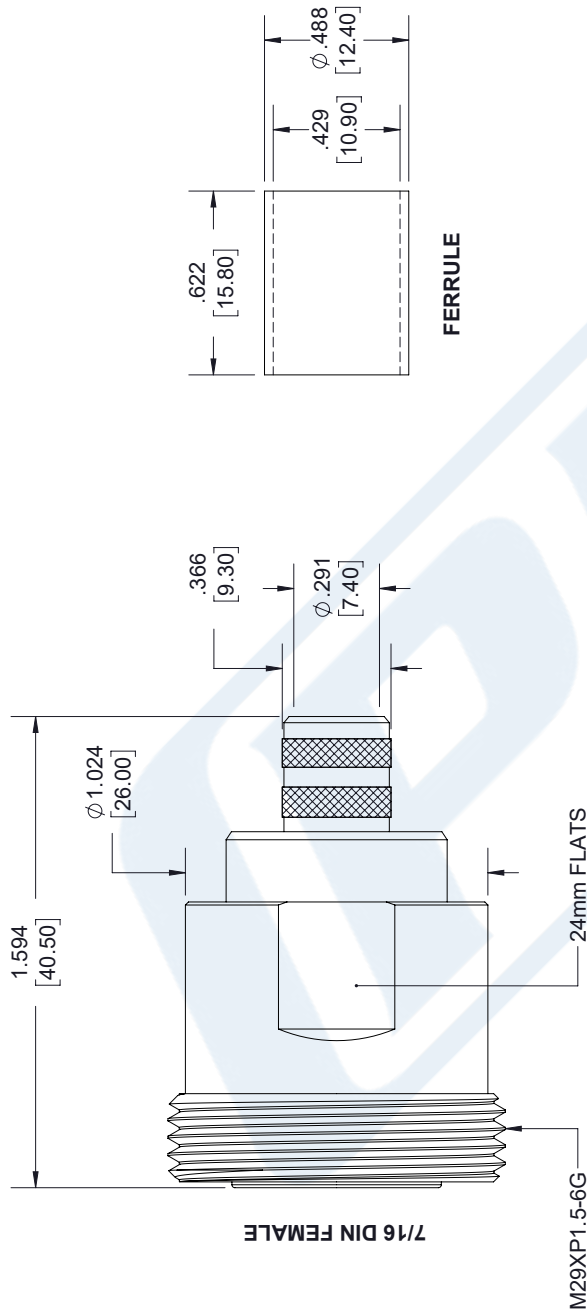
URL: <https://www.pasternack.com/7-16-female-standard-pe-c400-0.400-connector-pe44546-p.aspx>

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# PE44546 CAD Drawing

7/16 DIN Female Connector Crimp/Solder Attachment For PE-C400,  
PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF

| REVISIONS |             |          |          |
|-----------|-------------|----------|----------|
| REV.      | DESCRIPTION | DATE     | APPROVED |
| A         | PCR PE44546 | 4/2/2020 | S.ELLIS  |



## STRIPPING DIMENSIONS

### NOTES:

- CABLE ATTACHMENT:
  - OUTER: CRIMP.
  - INNER: SOLDER.
- CRIMP SIZE REQUIRED:
  - FERRULE: .429 [10.90] HEX. CRIMP TOOL.
  - CONTACT: SOLDER.

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

TOLERANCES:  
 .X = ± .2 [5.08] FRACTIONS  
 .XX = ± .02 [.51] ± 1/32  
 .XXX = ± .005 [.13] ANGLES ± 1°  
 CABLE LENGTH (L) TOLERANCES:  
 L ≤ 12 [305] = +1 [25] / -0  
 12 [305] < L ≤ 60 [1524] = +2 [51] / -0  
 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0  
 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0  
 300 [7620] < L = +5% / -0  
 ALL DIMENSIONS SHOWN  
 ARE FOR REFERENCE ONLY.

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SHEET 1 OF 1  
 SCALE N/A  
 REV A

**PE PASTERNAK**  
 an INFINITI brand

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 Website: www.pasternack.com  
 E-mail: sales@pasternack.com

SIZE CAGE CODE DRAWN BY ITEM NO. REV

A 53919 K.DANG PE44546



## Low Loss Flexible RG8 Type Coax Cable Double Shielded with Black PE Jacket

### RF Cables Technical Data Sheet

PE-C400

#### Configuration

- Low Loss Flexible Cable
- 2 Shield(s)

#### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units        |
|-------------------------------|---------|--------------|---------|--------------|
| Frequency Range               | DC      |              | 5.8     | GHz          |
| Impedance                     |         | 50           |         | Ohms         |
| Velocity of Propagation       |         | 85           |         | %            |
| Shielding Effectiveness       | 90      |              |         | dB           |
| Inner Conductor DC Resistance |         |              | 1.39    | Ohms/1000ft  |
| Outer Conductor DC Resistance |         |              | 1.85    | Ohms/1000ft  |
| Nominal Capacitance           |         | 23.9 [78.41] |         | pF/ft [pF/m] |
| Nominal Inductance            |         | 0.059 [0.19] |         | uH/ft [uH/m] |

#### Performance by Frequency Band

| Description           | F1    | F2    | F3   | F4    | F5   | Units    |
|-----------------------|-------|-------|------|-------|------|----------|
| Frequency             | 150   | 220   | 450  | 750   | 900  | MHz      |
| Attenuation, Typ      | 1.5   | 1.9   | 2.7  | 3.55  | 3.9  | dB/100ft |
|                       | 4.92  | 6.23  | 8.86 | 11.65 | 12.8 | dB/100m  |
| Input Power (CW), Max | 1,280 | 1,050 | 720  | 560   | 500  | Watts    |

| Description           | F6    | F7   | F8    | F9    | F10   | Units    |
|-----------------------|-------|------|-------|-------|-------|----------|
| Frequency             | 1.5   | 1.8  | 2     | 2.5   | 5.8   | GHz      |
| Attenuation, Typ      | 5.1   | 5.7  | 6     | 6.8   | 10.8  | dB/100ft |
|                       | 16.73 | 18.7 | 19.69 | 22.31 | 35.43 | dB/100m  |
| Input Power (CW), Max | 380   | 340  | 330   | 290   | 180   | Watts    |

#### Mechanical Specifications

|          |                         |
|----------|-------------------------|
| Diameter | 0.405 in [10.29 mm]     |
| Weight   | 0.064 lbs/ft [0.1 Kg/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 Flexible RG8 Type Coax Cable Double Shielded with Black PE Jacket PE-C400](#)



## Low Loss Flexible RG8 Type Coax Cable Double Shielded with Black PE Jacket

### RF Cables Technical Data Sheet

PE-C400

Min. Bend Radius (Repeated) 4 in [101.6 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    | Aluminum Tape                  |                     |
| Second Shield   | Tinned Copper Braid            | 0.32 in 8.13 mm     |
| Jacket          | PE, Black                      | 0.405 in [10.29 mm] |

#### Environmental Specifications

##### Temperature

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

#### Compliance Certifications (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

Low Loss Flexible RG8 Type 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.

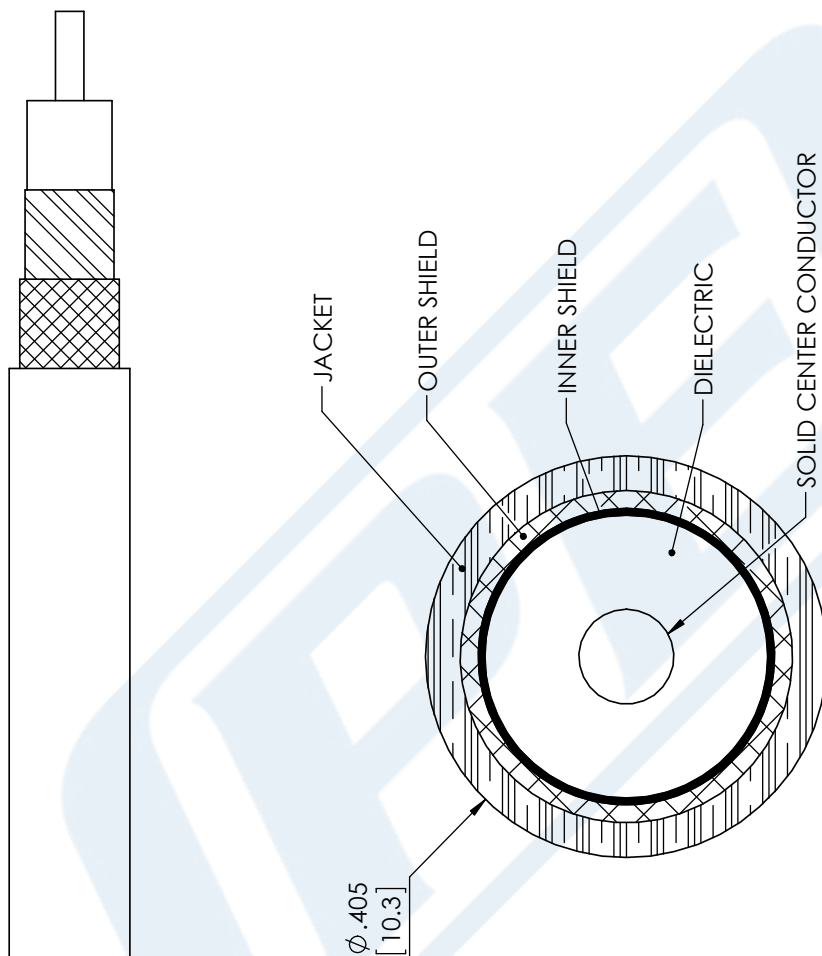
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible RG8 Type Coax Cable Double Shielded with Black PE Jacket PE-C400](#)

URL: <https://www.pasternack.com/flexible-0.405-50-ohm-coax-cable-pe-jacket-pe-c400-p.aspx>

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## Low Loss Flexible RG8 Type Coax Cable Double Shielded with Black PE Jacket

## Low Loss Flexible RG8 Type Coax Cable Double Shielded with Black PE Jacket



| STANDARD TOLERANCES |        |
|---------------------|--------|
| .X                  | ±0.2   |
| .XX                 | ±0.01  |
| .XXX                | ±0.005 |

**\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES**

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**Phone:** (949) 261-1920 | **Fax:** (949) 261-7451  
**Website:** [www.pasternack.com](http://www.pasternack.com) | **E-Mail:** [sales@pasternack.com](mailto:sales@pasternack.com)

**DWG TITLE**

PE-C400

**CAGE CODE 53919**

**CAD FILE** 11/28/17

**SIZE A**

**SIZE A**

CN2245

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].