



**FAKRA Plug Connector Crimp/Solder Attachment
for RG174, RG316, RG188, .100 inch, PE-
B100, PE-C100, LMR-100, Black Color**

**RF Connectors
Technical Data Sheet**

PE45404A

Configuration

- FAKRA Plug Connector
- 50 Ohms
- Straight Body Geometry
- RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100 Interface Type
- Crimp/Solder Attachment

Features

- Max. Operating Frequency 4 GHz
- Good VSWR of 1.3:1
- Gold Plated Phosphor Bronze Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE45404A FAKRA plug connector with crimp/solder attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100 and LMR-100 is part of our full line of RF components available for same-day shipping. Our FAKRA plug connector operates up to a maximum frequency of 4 GHz and offers good VSWR of 1.3:1.

Our FAKRA plug connector PE45404A 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 | | 4 | GHz |
| VSWR | | | 1.3:1 | |
| Operating Voltage (AC) | | | 335 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 800 | Vrms |
| Inner Conductor DC Resistance | | | 6 | mOhms |
| Outer Conductor DC Resistance | | | 2.5 | mOhms |
| Insulation Resistance | 1,000 | | | MOhms |

Mechanical Specifications

| | |
|-------------|--------------------|
| Size | |
| Length | 0.89 in [22.61 mm] |
| Width/Dia. | 0.37 in [9.40 mm] |
| Height | 0.433 in [11 mm] |
| Weight | 0.005 lbs [2.27 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [FAKRA Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Black Color PE45404A](#)



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B100, PE-C100, LMR-100, Black Color

RF Connectors
Technical Data Sheet

PE45404A

Material Specifications

| Description | Material | Plating |
|-----------------|-----------------|---------|
| Contact | Phosphor Bronze | Gold |
| Insulation | PTFE | |
| Outer Conductor | Brass | Nickel |
| Body | Plastic | |

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

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

Plotted and Other Data

Notes:

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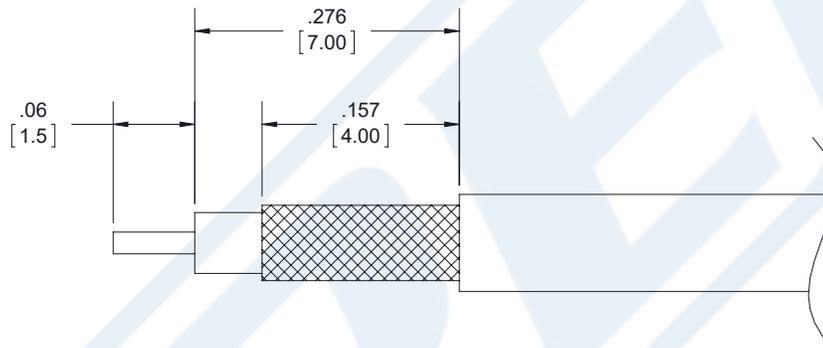


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B100, PE-C100, LMR-100, Black Color

RF Connectors
Technical Data Sheet

PE45404A

Assembly Instruction



ASSEMBLY PROCEDURES

1. STRIP CABLE TO THE DIMENSIONS SHOWN, DO NOT NICK CENTER CONDUCTOR OR BRAID.
2. PUSH CENTER CONDUCTOR FULLY INTO CONTACT AND SOLDER, REMOVE ANY EXCESS SOLDER.
3. FLARE BRAID AND INSERT CONTACT INTO THE BODY UNTIL IT SEATS.
4. SLIDE FERRULE OVER BRAID AND CRIMP WITH CRIMP TOOL.

CRIMP SIZE REQUIRED

- CONTACT: SOLDER.
- FERRULE: .128 HEX CRIMP TOOL.

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RF Connectors
Technical Data Sheet

PE45404A

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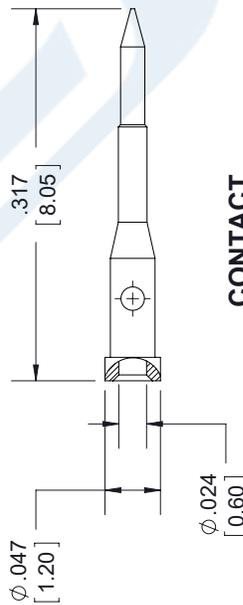
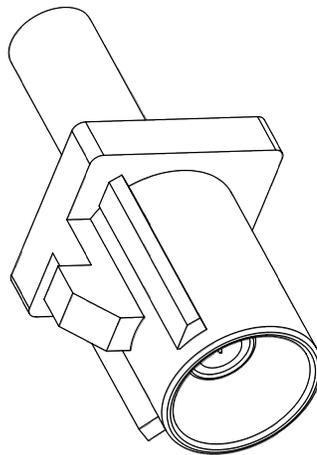
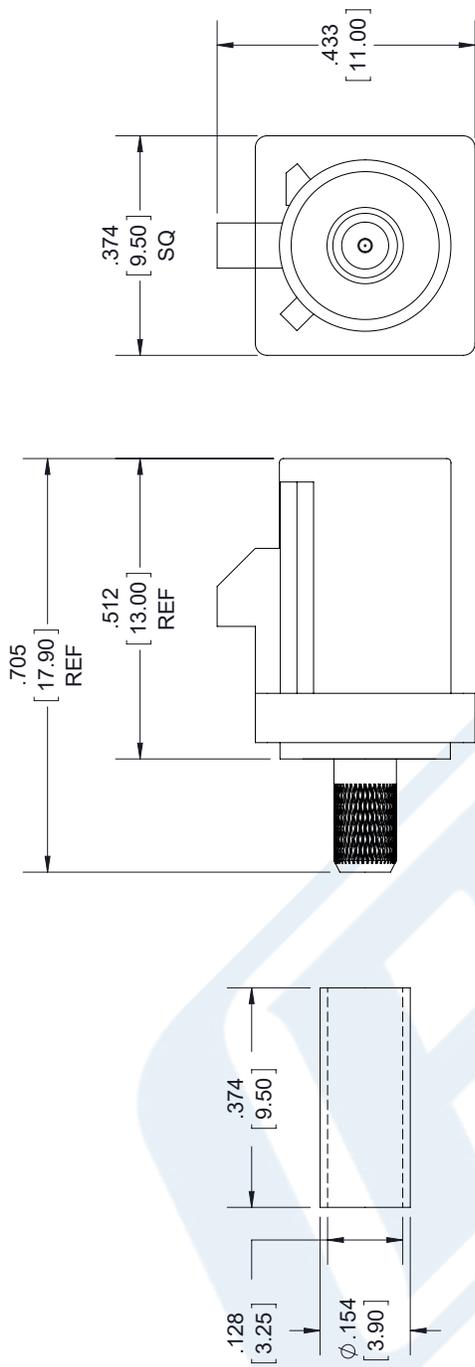
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PE45404A CAD Drawing

FAKRA Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Black Color



FAKRA CONFIGURATION

| CODING | JACK | COLOR | APPLICATION |
|--------|------|------------|--|
| A | | BLACK | RADIO WITH PHANTOM SUPPLY |
| B | | WHITE | RADIO WITHOUT PHANTOM SUPPLY |
| C | | BLUE | GPS: TELEMATICS OR NAVIGATION |
| D | | BORDEAUX | GSM: CELLULAR PHONE |
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| I | | BEIGE | BLUETOOTH |
| K | | CURRY | RADIO WITH IF OUTPUT (ANTENNA DIVERSITY) |
| Z | | WATER BLUE | NEUTRAL CODING |

STANDARD TOLERANCES

.X ±0.2
.XX ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



THE ENGINEER'S RF SOURCE

Pasternack Enterprises, Inc.

P.O. Box 16759 | Irvine | CA | 92623

Phone: (949) 261-1920 | Fax: (949) 261-7451

Website: www.pasternack.com | E-Mail: sales@pasternack.com

DWG TITLE

PE45404A

CAGE CODE 53919

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CAD FILE 082917

SCALE N/A

SIZE A

9999



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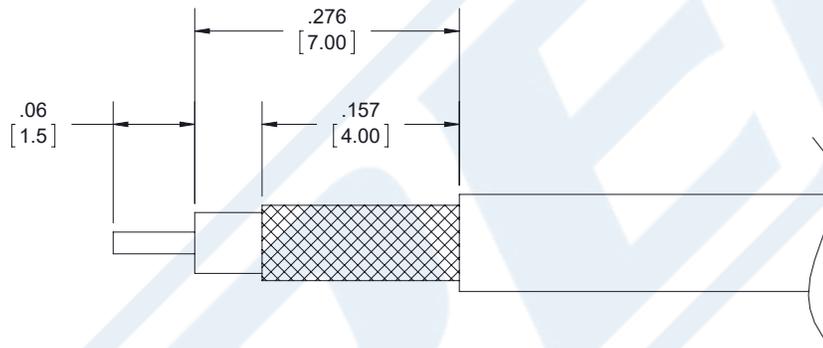


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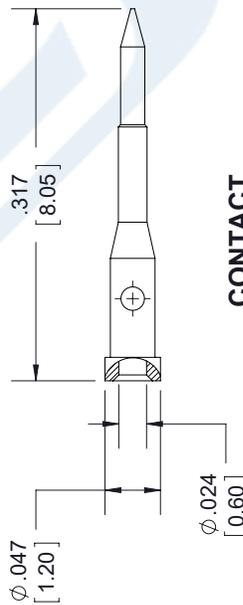
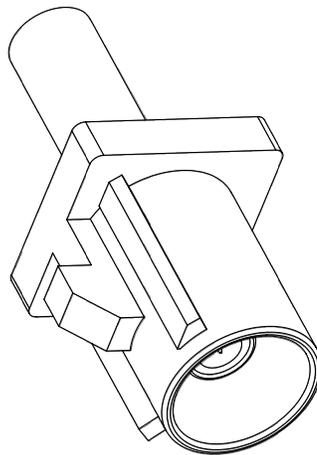
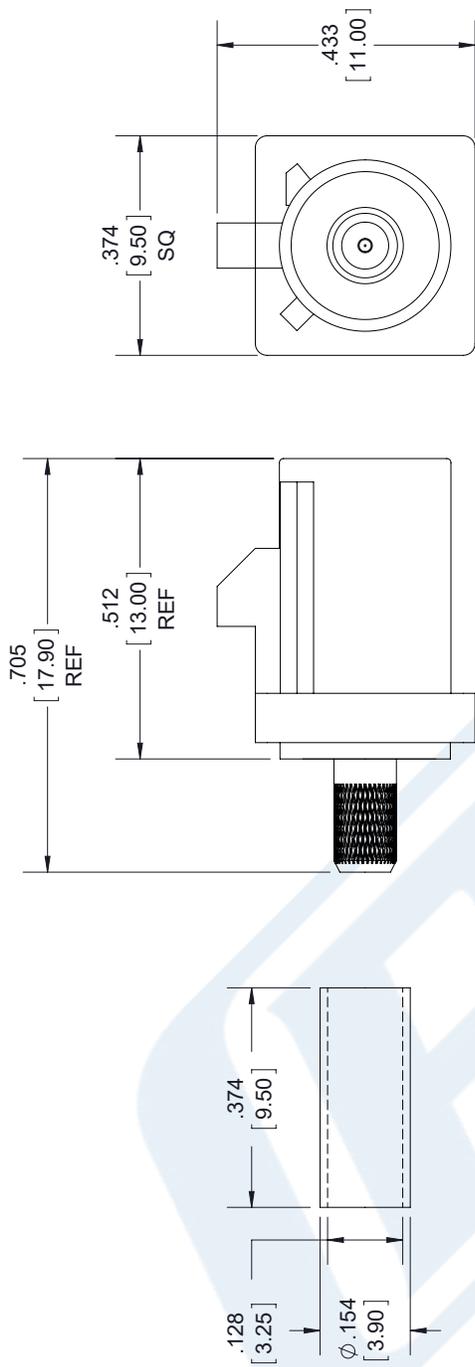
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PE45404A CAD Drawing

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CONTACT

FAKRA CONFIGURATION

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| K | | CURRY | RADIO WITH IF OUTPUT (ANTENNA DIVERSITY) |
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STANDARD TOLERANCES

.X ±0.2
.XX ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



THE ENGINEER'S RF SOURCE

Pasternack Enterprises, Inc.

P.O. Box 16759 | Irvine | CA | 92623

Phone: (949) 261-1920 | Fax: (949) 261-7451

Website: www.pasternack.com | E-Mail: sales@pasternack.com

DWG TITLE

PE45404A

CAGE CODE 53919

NOTES:
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CAD FILE 082917

SCALE N/A

SIZE A

9999

Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket

RF Cables Technical Data Sheet

PE-C100-LSZH

Configuration

Low Loss Flexible Cable
2 Number of Shields

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|---------------|---------|--------------|
| Frequency Range | DC | | 5 | GHz |
| Cutoff Frequency | | 41 | | GHz |
| Impedance | | 50 | | Ohms |
| Velocity of Propagation | | 66 | | % |
| Shielding Effectiveness | 90 | | | dB |
| Operating Voltage (AC) | | | 500 | Vrms |
| Jacket Spark | | | 2,000 | Vrms |
| Nominal Capacitance | | 30.8 [101.05] | | pF/ft [pF/m] |
| Nominal Inductance | | 0.077 [0.25] | | uH/ft [uH/m] |

Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|-------|------|-------|-------|----------|
| Frequency | 30 | 50 | 150 | 220 | 450 | MHz |
| Attenuation, Typ | 3.9 | 5.1 | 8.9 | 10.9 | 15.8 | dB/100ft |
| | 12.8 | 16.73 | 29.2 | 35.76 | 51.84 | dB/100m |
| Input Power (CW), Max | 230 | 180 | 100 | 80 | 60 | Watts |

| Description | F6 | F7 | F8 | F9 | F10 | Units |
|-----------------------|-------|--------|--------|--------|--------|----------|
| Frequency | 0.7 | 1.5 | 1.8 | 2.5 | 5 | GHz |
| Attenuation, Typ | 20.1 | 30.5 | 33.5 | 40.5 | 60 | dB/100ft |
| | 65.94 | 100.07 | 109.91 | 132.87 | 196.85 | dB/100m |
| Input Power (CW), Max | 40 | 40 | 40 | 40 | 10 | Watts |

Mechanical Specifications

Diameter 0.109 in [2.77 mm]
Weight 0.014 lbs/ft [0.02 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 RG174 Type Coax Cable Double Shielded with Black LSZH Jacket PE-C100-LSZH](#)



Low Loss Flexible RG174 Type Coax Cable
Double Shielded with Black LSZH Jacket

RF Cables Technical Data Sheet

PE-C100-LSZH

| | |
|---------------------------------|------------------------|
| Min. Bend Radius (Installation) | 0.25 in [6.35 mm] |
| Min. Bend Radius (Repeated) | 1 in [25.4 mm] |
| Bending Moment | 0.1 lbs/ft [0.15 Kg/m] |
| Tensile Strength | 15 lbs [6.8 Kg] |
| Flat Plate Crush | 10 lbs/in [0.18 Kg/mm] |

Construction Specifications

| Description | Material and Plating | Diameter |
|-----------------|------------------------------|--------------------|
| Inner Conductor | Copper Clad Steel, 1 Strands | 0.018in [0.46 mm] |
| Dielectric | PE | 0.059 in [1.5 mm] |
| First Shield | Aluminum Tape | |
| Second Shield | Tinned Copper Braid | |
| Jacket | LSZH, Black | 0.109 in [2.77 mm] |

Environmental Specifications

| | |
|--------------------|-----------------|
| Temperature | |
| Operating Range | -40 to 85 deg C |
| Storage Range | -40 to 85 deg C |

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

| | |
|-----------------|------------|
| RoHS Compliant | |
| REACH Compliant | 12/17/2014 |

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 RG174 Type Coax Cable Double Shielded with Black LSZH Jacket PE-C100-LSZH](#)

Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket

RF Cables Technical Data Sheet

PE-C100-LSZH

Plotted and Other Data

Notes:

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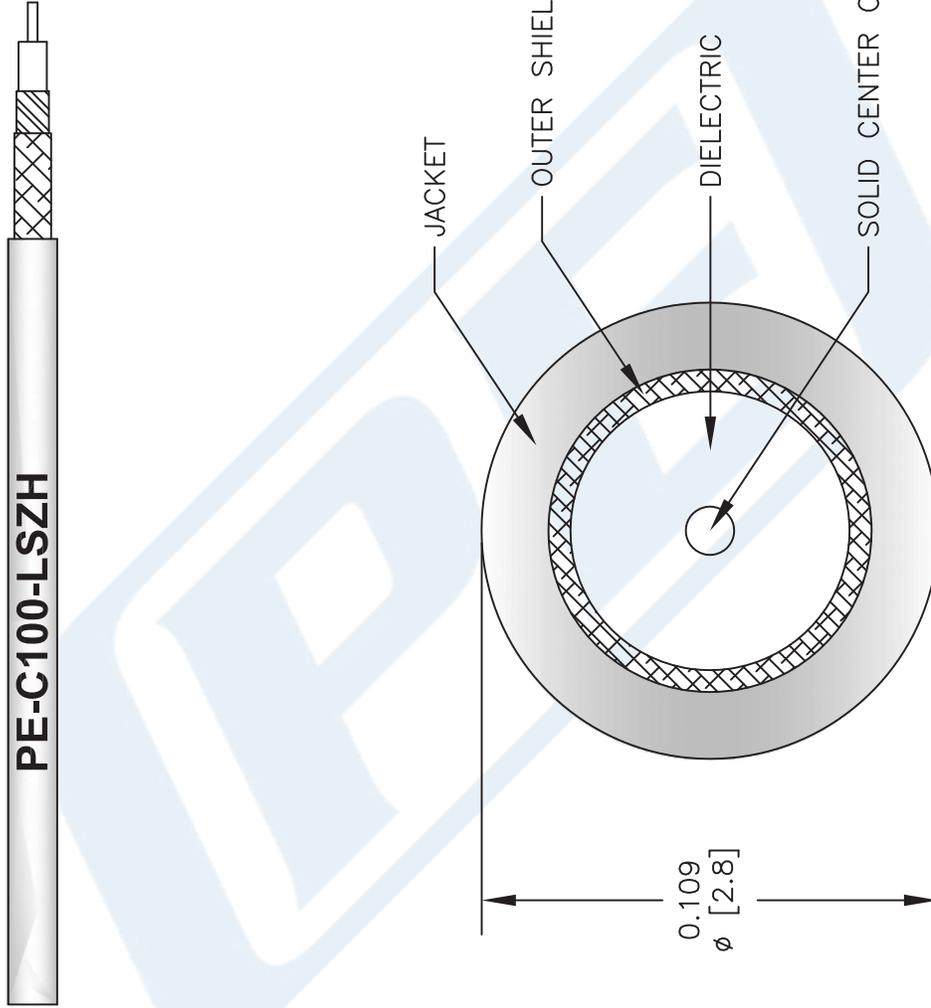
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URL: <http://www.pasternack.com/50-ohm-low-loss-lszhjacket-aluminomtape-over-tinnedcopperbraid-outerconductor-double-shieldedpe-c100-lszh-p.aspx>

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PE-C100-LSZH CAD Drawing

Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket



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DWG TITLE
PE-C100-LSZH

FSCM NO. 53919

CAD FILE 031313

SCALE N/A

SIZE A

2233

PE PASTERNAK[®]
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