



MMBX Plug Right Angle Snap-On Connector Solder Attachment  
for RG405, PE-SR405FL, PE-SR405FLJ, with male center contact

## RF Connectors Technical Data Sheet

**PE45257**

### Configuration

- Snap-On MMBX Plug Connector
- 50 Ohms
- Right Angle Body Geometry
- RG405, PE-SR405FL, PE-SR405FLJ Interface Type
- Solder/Solder Attachment

### Features

- Max. Operating Frequency 12.4 GHz
- Excellent VSWR of 1.2:1
- Gold Plated Beryllium Copper Contact
- Blind Mate Connector
- Reliable Snap-On connection method
- Small circuit footprint for high density applications
- Mechanical misalignment tolerance of 4.5°/0.7mm Max

### Applications

- General Purpose Test
- Custom Cable Assemblies
- Low cost blind mate interconnect
- Multi circuit board radios
- Board to board applications requiring multiple coaxial connections

### Description

Pasternack's PE45257 MMBX plug right angle snap-on connector solder attachment for RG405, PE-SR405FL, PE-SR405FLJ is part of our full line of RF components available for same-day shipping. Our MMBX plug connector operates up to a maximum frequency of 12.4 GHz and offers excellent VSWR of 1.2:1. Its right angle body geometry allows for easier connections in tight spaces. The Pasternack blind mate connector is ideal for applications where direct visual or tactile access to the connection point is not possible, for example, when two circuit boards need to be mated.

Our MMBX plug right angle connector PE45257 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 connector assemblies for you and ship same-day.

### Electrical Specifications

| Description                          | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range                      | DC      |         | 12.4    | GHz   |
| VSWR                                 |         |         | 1.2:1   |       |
| Insertion Loss                       |         |         | 0.18    | dB    |
| Operating Voltage (DC)               |         |         | 250     | Vdc   |
| Dielectric Withstanding Voltage (DC) |         |         | 750     | Vdc   |
| Insulation Resistance                | 1,000   |         |         | MOhms |

Electrical Specification Notes:  
MMBX Plug has a male center contact

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MMBX Plug Right Angle Snap-On Connector Solder Attachment for RG405, PE-SR405FL, PE-SR405FLJ, with male center contact PE45257](#)



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### Mechanical Specifications

#### Size

|               |                      |
|---------------|----------------------|
| Length        | 0.4 in [10.16 mm]    |
| Width/Dia.    | 0.24 in [6.10 mm]    |
| Weight        | 0.00672 lbs [3.05 g] |
| Mating Cycles | 100 Cycles           |

### Material Specifications

| Description     | Material         | Plating |
|-----------------|------------------|---------|
| Contact         | Beryllium Copper | Gold    |
| Insulation      | PTFE             |         |
| Outer Conductor | Brass            | Gold    |
| Body            | Brass            | Gold    |

### Environmental Specifications

#### Temperature

|                 |                   |
|-----------------|-------------------|
| Operating Range | -55 to +155 deg C |
|-----------------|-------------------|

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## RF Connectors Technical Data Sheet

**PE45257**

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

### Plotted and Other Data

Notes:

MMBX Plug Right Angle Snap-On Connector Solder Attachment for RG405, PE-SR405FL, PE-SR405FLJ, with male center contact 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.

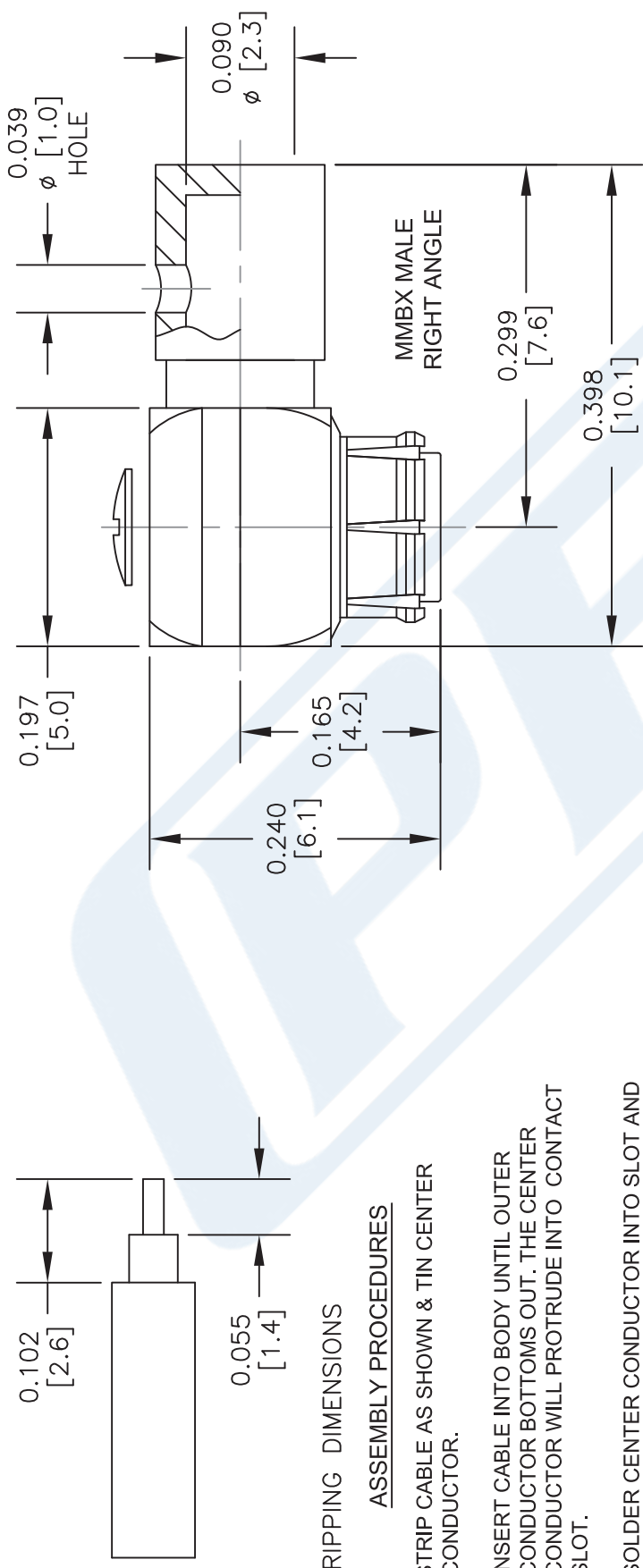
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URL: <https://www.pasternack.com/mmbx-plug-snap-on-rg405-pe-sr405fl-pe-sr405flj-connector-pe45257-p.aspx>

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. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

# PE45257 CAD Drawing

MMBX Plug Right Angle Snap-On Connector Solder Attachment for  
RG405, PE-SR405FL, PE-SR405FLJ, with male center contact



## STRIPPING DIMENSIONS

### ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & TIN CENTER CONDUCTOR.
2. INSERT CABLE INTO BODY UNTIL OUTER CONDUCTOR BOTTOMS OUT. THE CENTER CONDUCTOR WILL PROTRUDE INTO CONTACT SLOT.
3. SOLDER CENTER CONDUCTOR INTO SLOT AND OUTER CONDUCTOR TO BODY. PRESS CAP INTO CONNECTOR BODY.

| STANDARD TOLERANCES |       |
|---------------------|-------|
| .X                  | ±0.2  |
| .XX                 | ±0.1  |
| .XXX                | ±0.05 |

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

**PE PASTERNAK®**  
THE ENGINEER'S RF SOURCE  
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DWG TITLE  
**PE45257**  
FSCM NO. 53919

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 092816 SCALE N/A SIZE A 2233



SSMA Female Bulkhead Connector Solder Attachment For  
PE-SR405AL, PE-SR405FL, RG405, .177 inch D Hole

TECHNICAL DATA SHEET

PE44390

**SSMA Female Bulkhead Connector Solder Attachment For PE-SR405AL, PE-SR405FL, RG405, .177 inch D Hole**

**Configuration**

|                                          |                               |
|------------------------------------------|-------------------------------|
| Connector                                | SSMA Female                   |
| Connector Specification                  | MIL-C-39012                   |
| Connector Interface Type                 | PE-SR405AL, PE-SR405FL, RG405 |
| Cable Attachment Method (Shield/Contact) | Solder/Solder                 |
| Body Style                               | Straight                      |
| Mount Method                             | Bulkhead                      |

**Electrical Specifications**

|                 |    |
|-----------------|----|
| Impedance, Ohms | 50 |
|-----------------|----|

**Mechanical Specifications**

**Temperature**

|                        |             |
|------------------------|-------------|
| Operating Range, deg C | -65 to +165 |
|------------------------|-------------|

**Size**

|                     |              |
|---------------------|--------------|
| Length, in [mm]     | 0.685 [17.4] |
| Width/Dia., in [mm] | 0.375 [9.53] |
| Weight, lbs [g]     | 0.008 [3.63] |

**Connector**

|                               |             |
|-------------------------------|-------------|
| Type                          | SSMA Female |
| Contact Material and Plating  | Gold        |
| Contact Plating Specification | MIL-G-45204 |
| Body Material and Plating     | Brass, Gold |
| Body Plating Specification    | MIL-G-45204 |
| Dielectric Type               | Teflon      |

**Compliance Certifications** (visit [www.Pasternack.com](http://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: [SSMA Female Bulkhead Connector Solder Attachment For PE-SR405AL, PE-SR405FL, RG405, .177 inch D Hole PE44390](#)

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SSMA Female Bulkhead Connector Solder Attachment For  
PE-SR405AL, PE-SR405FL, RG405, .177 inch D Hole

**TECHNICAL DATA SHEET**

**PE44390**

**Plotted and Other Data**

Notes:

Values at 25 °C, sea level

SSMA Female Bulkhead Connector Solder Attachment For PE-SR405AL, PE-SR405FL, RG405, .177 inch D Hole 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.

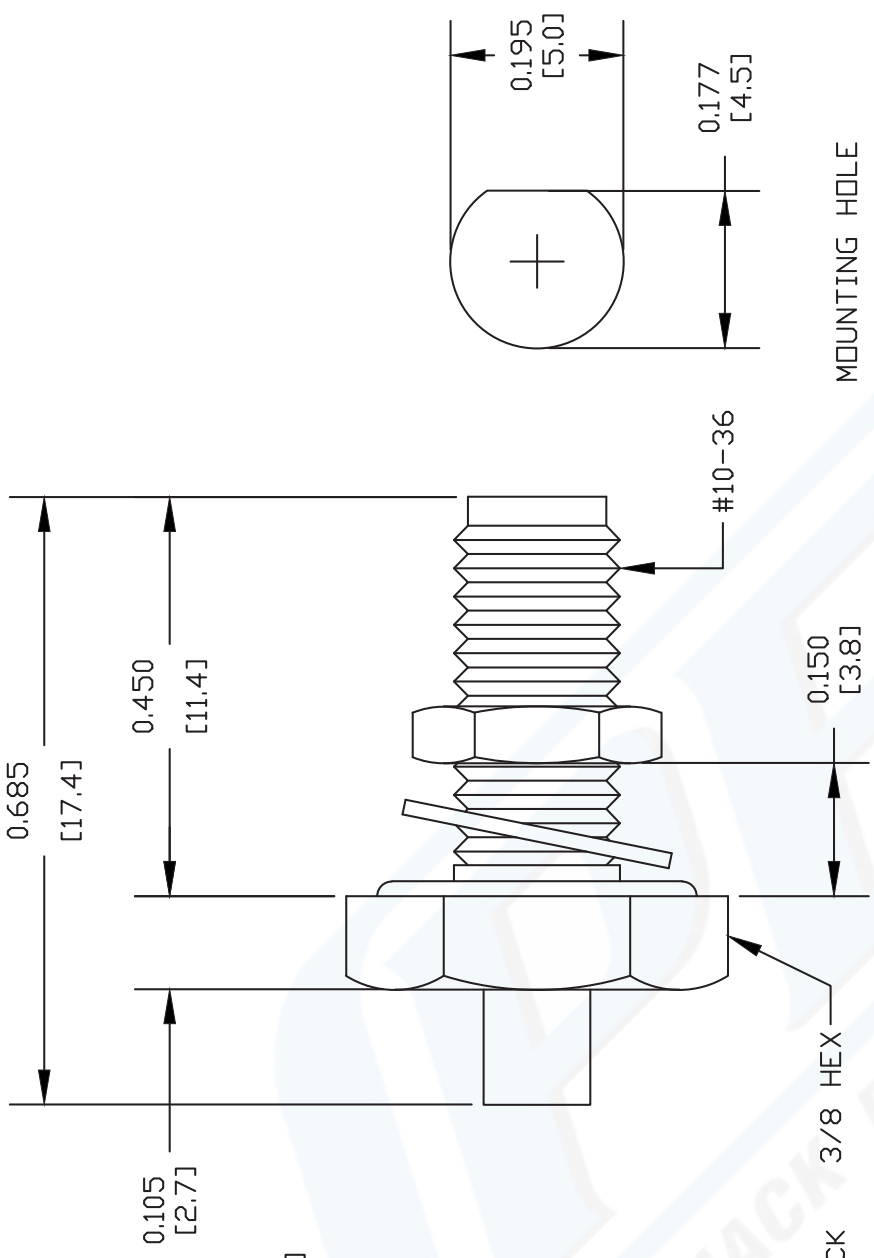
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PE44390 CAD Drawing

SSMA Female Bulkhead Connector Solder Attachment For  
PE-SR405AL, PE-SR405FL, RG405, .177 inch D Hole



MOUNTING HOLE

STRIPPING DIMENSIONS  
ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR.
2. SOLDER CONTACT TO CENTER CONDUCTOR.
3. INSERT CABLE INTO BODY UNTIL OUTER CONDUCTOR BOTTOMS OUT. SOLDER OUTER CONDUCTOR TO BODY.

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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  
**PE44390**

FSCM NO. 53919

CAD FILE 101403  
SCALE N/A  
SIZE A  
127

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## 086 Semi-rigid Coax Cable with Copper Outer Conductor

## TECHNICAL DATA SHEET

RG405/U

## 086 Semi-rigid Coax Cable with Copper Outer Conductor

**Configuration**

|                                      |                           |
|--------------------------------------|---------------------------|
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type                      | PTFE                      |
| Shield Materials                     | Copper                    |
| Jacket Material and Color            | Tan                       |

**Electrical Specifications**

|                                       |       |
|---------------------------------------|-------|
| Impedance, Ohms                       | 50    |
| Maximum Operating Frequency, GHz      | 40    |
| Dielectric Withstanding Voltage, Vrms | 5,000 |

**Electrical Specifications by Frequency****Frequency 1**

|                                 |            |
|---------------------------------|------------|
| Frequency, MHz                  | 1000       |
| Attenuation, dB/100ft [dB/100m] | 22 [72.18] |
| Power Handling, Watts           | 130        |

**Frequency 2**

|                                 |             |
|---------------------------------|-------------|
| Frequency, GHz                  | 10          |
| Attenuation, dB/100ft [dB/100m] | 80 [262.47] |
| Power Handling, Watts           | 35          |

**Frequency 3**

|                                 |             |
|---------------------------------|-------------|
| Frequency, GHz                  | 20          |
| Attenuation, dB/100ft [dB/100m] | 120 [393.7] |
| Power Handling, Watts           | 20          |

**Mechanical Specifications****Temperature**

|                        |             |
|------------------------|-------------|
| Operating Range, deg C | -55 to +125 |
|------------------------|-------------|

**Inner Conductor**

|                   |                   |
|-------------------|-------------------|
| Number of Strands | 1                 |
| Material          | Copper Clad Steel |
| Plating           | Silver            |
| Diameter, in [mm] | 0.02 [0.51]       |

**Dielectric:**

|                   |              |
|-------------------|--------------|
| Type              | PTFE         |
| Diameter, in [mm] | 0.066 [1.68] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [086 Semi-rigid Coax Cable with Copper Outer Conductor RG405/U](#)

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## 086 Semi-rigid Coax Cable with Copper Outer Conductor

### TECHNICAL DATA SHEET

RG405/U

**Shield:**

|                   |              |
|-------------------|--------------|
| Number of         | 1            |
| Material 1        | Copper       |
| Diameter, in [mm] | 0.087 [2.21] |

**Jacket:**

|                                       |              |
|---------------------------------------|--------------|
| Color                                 | Tan          |
| One Time Minimum Bend Radius, in [mm] | 0.05 [1.27]  |
| Weight, lbs/ft [Kg/m]                 | 0.015 [0.02] |

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

|                |     |
|----------------|-----|
| RoHS Compliant | Yes |
|----------------|-----|

**Plotted and Other Data**

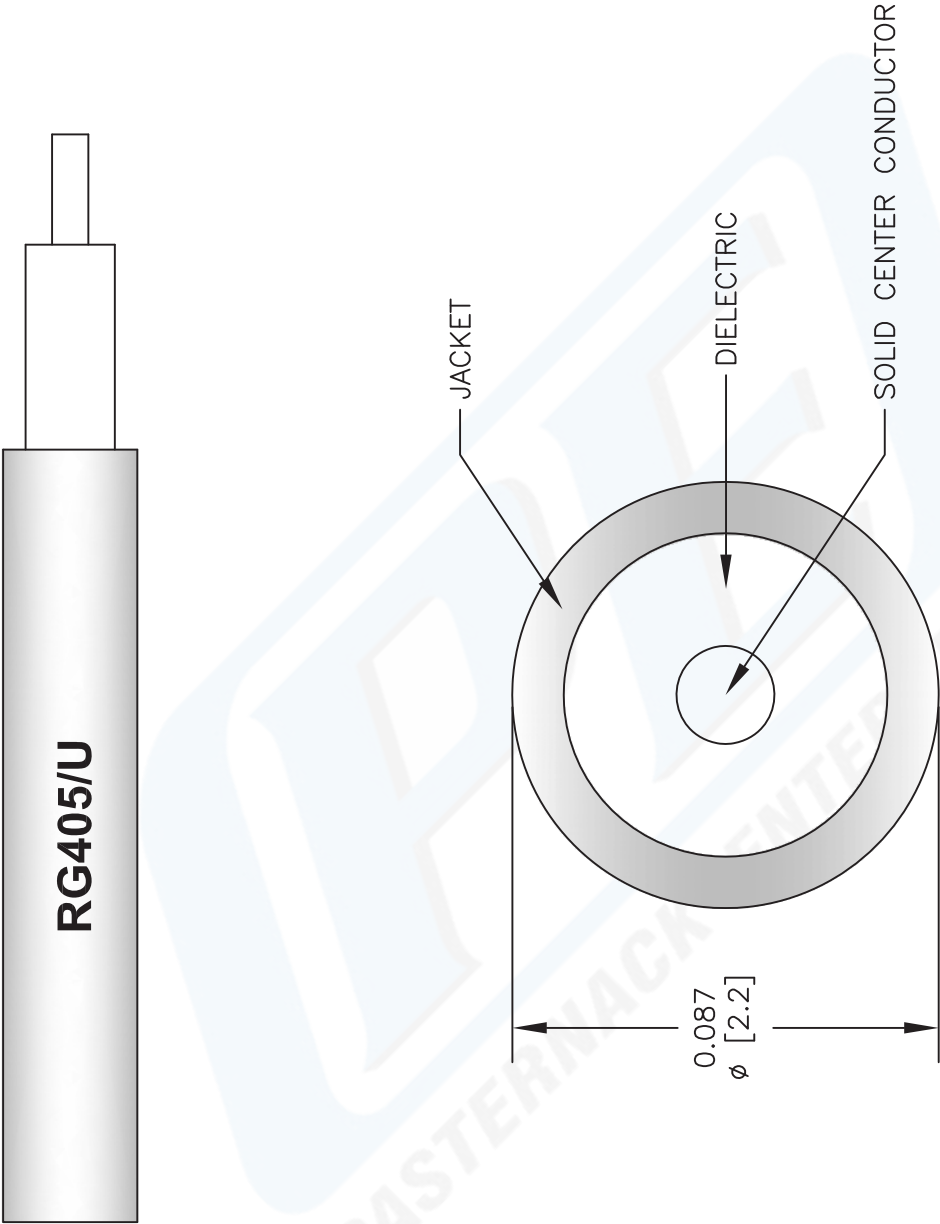
|        |                            |
|--------|----------------------------|
| Notes: | Values at 25 °C, sea level |
|--------|----------------------------|

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URL: <http://www.pasternack.com/semirigid-0.085-rg405-50-ohm-coax-cable-copper-rg405-u-p.aspx>

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DWG TITLE  
**RG405/U**

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