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THE ENGINEER'S RF SOURCE



# SMP Male Bulkhead Mount Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405, 4.83 mm Diameter

## TECHNICAL DATA SHEET PE44483

### Configuration

| | |
|---|---|
| Connector | SMP Male |
| Connector Specification | MIL-STD-348A |
| Connector Interface Type | PE-SR405AL, PE-SR405FL, RG405 |
| Attachment Method (Shield/Contact) | Solder/Solder |
| Body Style | Straight |
| Mount Method | Bulkhead |

### Electrical Specifications

| | |
|---|---|
| Frequency Range | DC to 26.5 GHz |
| Impedance | 50 Ohms |
| Maximum VSWR | 1.3:1 |
| Maximum Insertion Loss | 0.25 dB |
| Maximum Operating Voltage | 335 Volts |
| Dielectric Withstanding Voltage | 500 Vrms |

**Frequency 1**

| | |
|---|---|
| Frequency | DC to 4 GHz |
| Return Loss | 30 dB |
| Insertion Loss | 0.1 dB |

**Frequency 2**

| | |
|---|---|
| Frequency | 4 to 12 GHz |
| Return Loss | 20 dB |
| Insertion Loss | 0.17 dB |

### Mechanical Specifications

**Temperature**

| | |
|---|---|
| Operating Range | -65 to +155 deg C |

**Size**

| | |
|---|---|
| Length | 0.39 in [9.91 mm] |
| Width/Dia. | 0.25 in [6.35 mm] |
| Weight | 0.006 lbs [2.72 g] |

**Connector**

| | |
|---|---|
| Type | SMP Male |
| Mating Cycles | 500 |
| Contact Material and Plating | Brass, Gold |
| Body Material and Plating | Brass, Gold |
| Dielectric Type | PTFE |

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

| | |
|---|---|
| RoHS Compliant | |
| REACH Compliant | 12/19/2011 |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMP Male Bulkhead Mount Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405, 4.83 mm Diameter PE44483

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# SMP Male Bulkhead Mount Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405, 4.83 mm Diameter

## TECHNICAL DATA SHEET PE44483

### Plotted and Other Data

Notes:

- Values at +25 °C, sea level

SMP Male Bulkhead Mount Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405, 4.83 mm Diameter 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: http://www.pasternack.com/smp-male-standard-pe-sr405al-pe-sr405fl-rg405-connector-pe44483-p.aspx

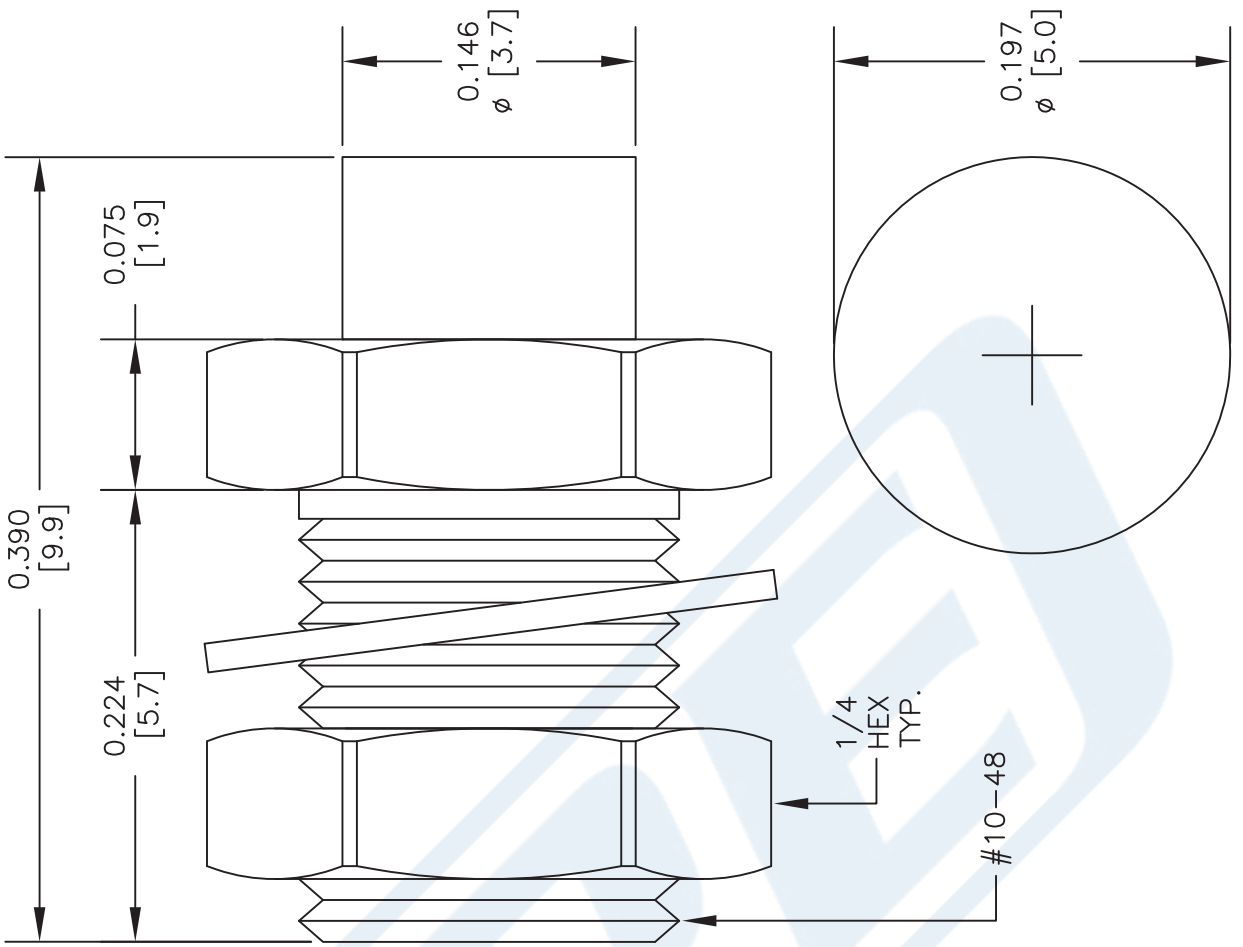
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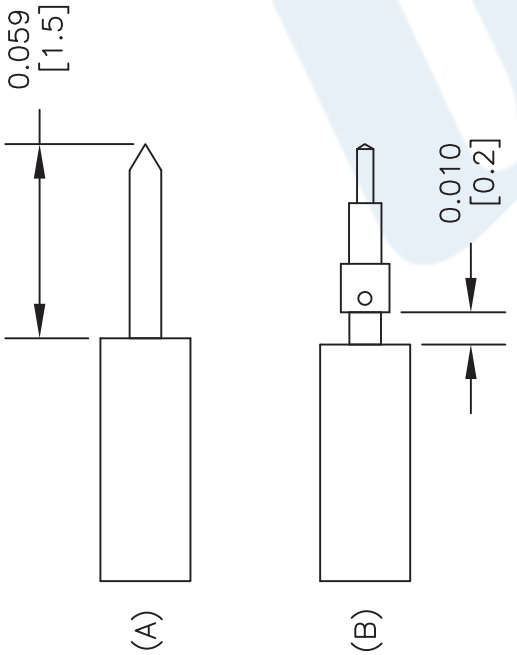
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# PE44483 CAD Drawing

SMP Male Bulkhead Mount Connector Solder Attachment for
PE-SR405AL, PE-SR405FL, RG405, 4.83 mm Diameter




STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN IN (A). DO NOT NICK CENTER CONDUCTOR.
2. SOLDER CONTACT (1) TO CENTER CONDUCTOR AS SHOWN IN (B).
3. SLIDE BUSHING (2) OVER CONTACT UNTIL IT STOPS.
4. INSERT ASSEMBLY (1 & 2) INTO CONNECTOR BODY, UNTIL IT BOTTOMS OUT.
5. SOLDER CONNECTOR BODY TO CABLE.

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 | 052814 | SCALE N/A | SIZE A | 2233 |
|---|---|---|---|---|

DWG TITLE: **PE44483**

**FSCM NO. 53919**


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# 1.85mm Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405, Direct Solder without Center Contact



## RF Connectors Technical Data Sheet PE44336

## Configuration

- 1.85mm Male Connector
- 50 Ohms
- Straight Body Geometry
- PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 Interface Type
- Solder Attachment
- 1/4 inch Hex

## Features

- Max. Operating Frequency 60 GHz
- Good VSWR of 1.33:1
- Gold over Nickel Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204

## Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE44336 1.85mm male connector with solder attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN and RG405 is part of our full line of RF components available for same-day shipping. Our 1.85mm male connector operates up to a maximum frequency of 60 GHz and offers good VSWR of 1.33:1.

Our 1.85mm male connector PE44336 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 | | 60 | GHz |
| VSWR | | | 1.33:1 | |
| Insertion Loss | | | 0.39 | dB |

Electrical Specification Notes:
Insertion loss: 0.05 x sqrt(fGHz) dB.

### Mechanical Specifications

| | |
|---|---|
| **Size** | |
| Length | 0.531 in [13.49 mm] |
| Width/Dia. | 0.312 in [7.92 mm] |
| Weight | 0.007 lbs [3.18 g] |
| Mating Cycles | 500 Cycles |
| Mating Torque | 8 to 10 in-lbs [0.90 to 1.13 Nm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 1.85mm Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405, Direct Solder without Center Contact PE44336

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# 1.85mm Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405, Direct Solder without Center Contact



### Material Specifications

| Description | Material | Plating |
|---|---|---|
| Contact | Beryllium Copper | Gold over Nickel MIL-G-45204 |
| Body | Stainless Steel | Gold over Nickel MIL-G-45204 |
| Coupling Nut | Passivated Stainless Steel | ASTM-A380 |

## Environmental Specifications

**Temperature**

| | |
|---|---|
| Operating Range | -55 to +100 deg C |
| Vibration | MIL-STD-202, Method 204, Condition D (20 G's) |
| Salt Spray | MIL-STD-202, Method 101, Condition B, 5% salt solution |

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

## Plotted and Other Data

Notes:

### Assembly Instruction

1.85mm Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405, Direct Solder without Center Contact 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: 1.85mm Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405, Direct Solder without Center Contact PE44336

URL: https://www.pasternack.com/1.85mm-male-pe-sr405al-pe-sr405fl-rg405-connector-pe44336-p.aspx

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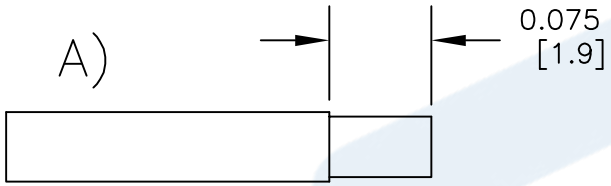
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# PE44336 CAD Drawing

1.85mm Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405, Direct Solder without Center Contact

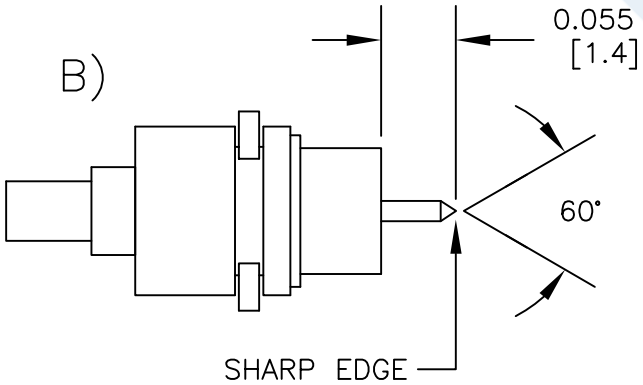
## ASSEMBLY PROCEDURES

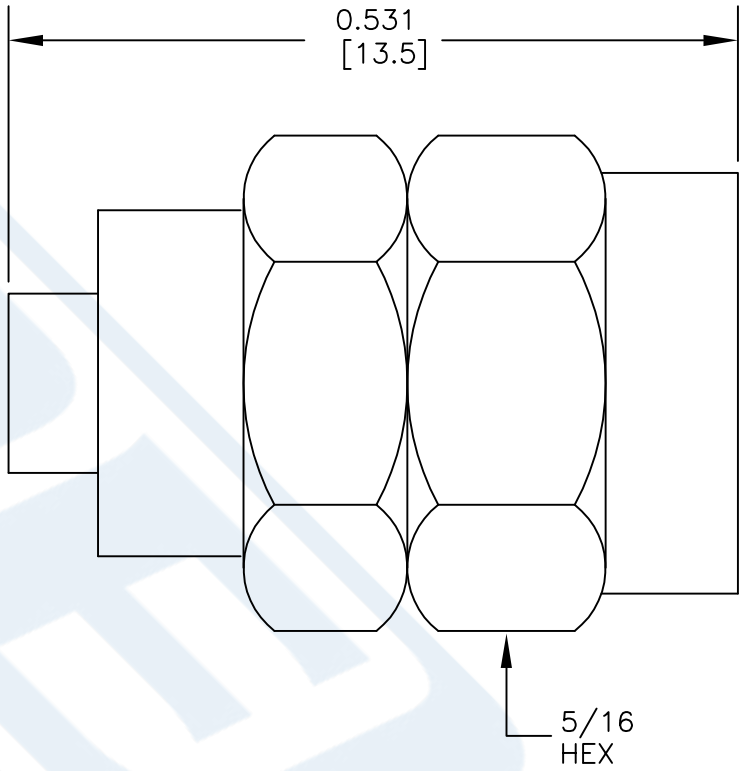
1. STRIP CABLE AS SHOWN IN (A).




2. SLIDE BODY OVER CABLE UNTIL IT STOPS. SOLDER BODY ONTO CABLE.

3. STRIP CABLE AS SHOWN IN ASSEMBLY (B) THEN INSTALL COUPLING NUT, FORM POINT ON COAX CENTER CONDUCTOR AS SHOWN.




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DWG TITLE

**PE44336**

**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 | SCALE | SIZE | |
|---|---|---|---|
| 101414 | N/A | A | 150 |

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# RG405 Coax Cable with Tinned Copper Outer Conductor

RF Cables
Technical Data Sheet

PE-SR405TN

## Configuration

- Semi-Rigid Cable
- MIL-C-17
- 1 Shield(s)

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 40 | GHz |
| Impedance | | 50 | | Ohms |

### Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency | 1 | 10 | 20 | | | GHz |
| Attenuation, Typ | 22 | 80 | 120 | | | dB/100ft |
| | 72.18 | 262.47 | 393.7 | | | dB/100m |
| Input Power (CW), Max | 130 | 35 | 20 | | | Watts |

### Mechanical Specifications

Min. Bend Radius (Installation) 0.05 in [1.27 mm]

### Construction Specifications

| Description | Material and Plating | Diameter |
|---|---|---|
| Inner Conductor | Copper Clad Steel, Silver, 1 Strands | 0.02 in [0.51 mm] |
| Conductor Type | Solid | |
| Dielectric | PTFE | 0.066 in [1.68 mm] |
| First Shield | Tinned Copper | |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: RG405 Tinned Coax Cable with Tinned Copper Outer Conductor PE-SR405TN

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# RG405 Coax Cable with Tinned Copper Outer Conductor

## RF Cables
## Technical Data Sheet

PE-SR405TN

### Environmental Specifications

**Temperature**

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

**Compliance Certifications** (see product page for current document)

### Plotted and Other Data

Notes:

RG405 Coax Cable with Tinned Copper Outer Conductor 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: RG405 Tinned Coax Cable with Tinned Copper Outer Conductor PE-SR405TN

URL: https://www.pasternack.com/50-ohm-semi-rigid-rg405-tinned-tinned-copper-pe-sr405tn-p.aspx

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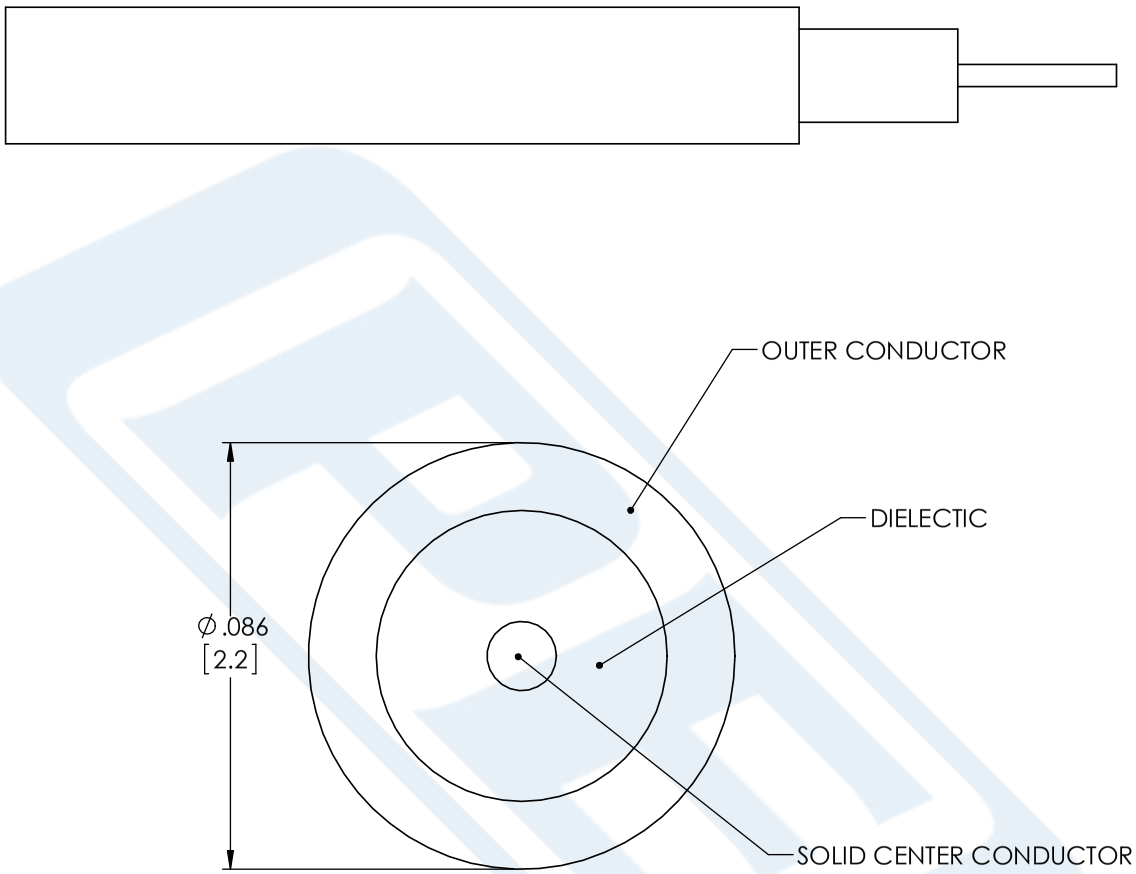
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# PE-SR405TN CAD Drawing

RG405 Coax Cable with Tinned Copper Outer Conductor




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

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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**DWG TITLE**
PE-SR405TN

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| CAGE CODE 53919 | CAD FILE 11/28/17 | SCALE N/A | SIZE A | CN2245 |
|---|---|---|---|---|