



## 2.4mm Male to 2.4mm Female Cable 6 Inch Length Using RG405 Coax, RoHS

### RF Cable Assemblies Technical Data Sheet

**PE35654LF-6**

#### Configuration

- Connector 1: 2.4mm Male
- Connector 2: 2.4mm Female
- Cable Type: RG405

#### Electrical Specifications

| Description     | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | DC      |         | 40      | GHz   |
| VSWR            |         |         | 1.4:1   |       |

#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5  | Units |
|-----------------------|------|------|------|------|-----|-------|
| Frequency             | 2.5  | 5    | 20   | 30   | 40  | GHz   |
| Insertion Loss (Max.) | 0.25 | 0.35 | 0.75 | 0.95 | 1.1 | dB    |

#### Mechanical Specifications

##### Cable Assembly

|          |                     |
|----------|---------------------|
| Length   | 6 in [152.4 mm]     |
| Diameter | 0.33 in [8.38 mm]   |
| Weight   | 0.029 lbs [13.15 g] |

##### Cable

|                                      |                           |
|--------------------------------------|---------------------------|
| Cable Type                           | RG405                     |
| Impedance                            | 50 Ohms                   |
| Inner Conductor Type                 | Solid                     |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type                      | PTFE                      |
| Number of Shields                    | 1                         |
| Shield Layer 1                       | Copper                    |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.4mm Male to 2.4mm Female Cable 6 Inch Length Using RG405 Coax, RoHS PE35654LF-6](#)



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### Connectors

| Description                        | Connector 1                   | Connector 2                   |
|------------------------------------|-------------------------------|-------------------------------|
| Type                               | 2.4mm Male                    | 2.4mm Female                  |
| Impedance                          | 50 Ohms                       | 50 Ohms                       |
| Contact Material and Plating       | Beryllium Copper, Gold        | Beryllium Copper, Gold        |
| Contact Plating Specification      | MIL-G-45204, Type II, Class 1 | MIL-G-45204, Type II, Class 2 |
| Dielectric Type                    | PPO                           | PPO                           |
| Coupling Nut Material and Plating  | Passivated Stainless Steel    |                               |
| Coupling Nut Plating Specification | SAE-AMS-2700                  |                               |
| Hex Size                           | 5/16 in.                      |                               |
| Torque                             | 8 in-lbs [0.9 Nm]             |                               |
| Body Material and Plating          | Passivated Stainless Steel    | Passivated Stainless Steel    |
| Body Plating Specification         | ASTM B689                     | QQ-P-35                       |

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

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

### Plotted and Other Data

Notes:

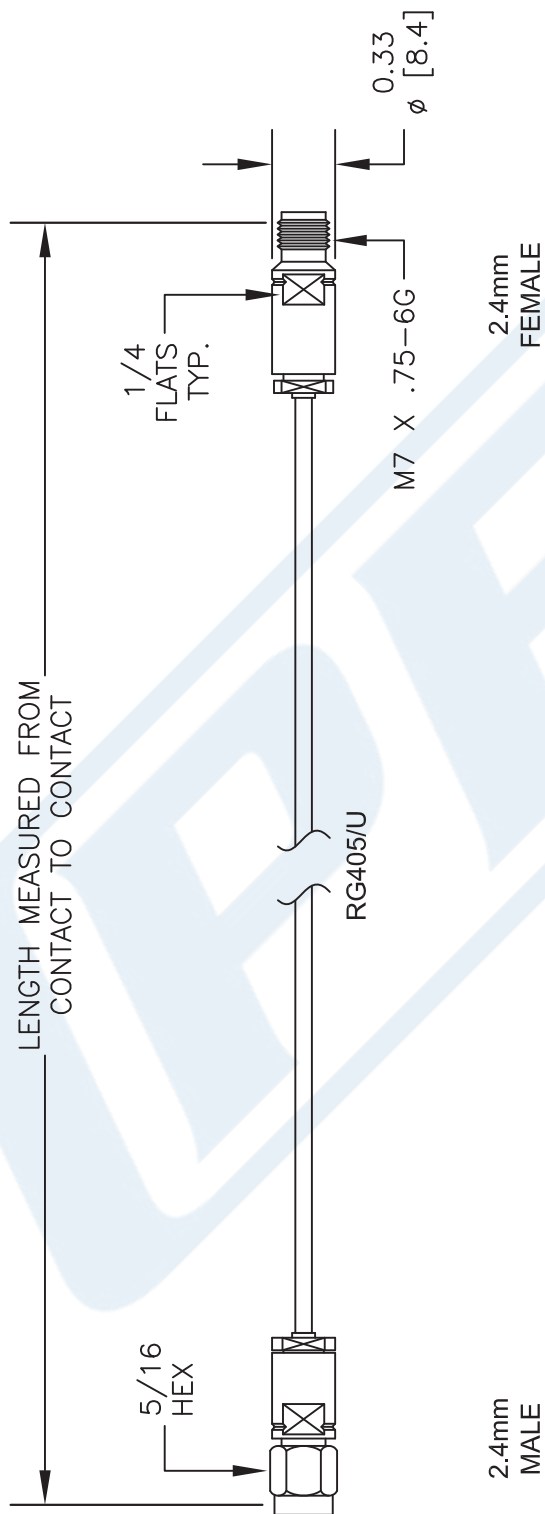
- Values at 25°C, sea level.

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# PE35654LF-6 CAD Drawing

2.4mm Male to 2.4mm Female Cable 6 Inch Length Using RG405 Coax, RoHS



DWG TITLE

**PE35654LF**

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. LENGTH TOLERANCE IS  $\pm 1.5\%$  OR  $3/8"$ , WHICHEVER IS GREATER.

FSCM NO. 53919

CAD FILE 040816

SCALE N/A

SIZE A

2233



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