PASTERNACK®
THE ENGINEER'S RF SOURCE



# SMA Male to SMA Male Cable 18 Inch Length Using RG316 Coax

## RF Cable Assemblies Technical Data Sheet PE3573-18

## Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: RG316

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 3 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 69 | | % |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |
| DC Resistance Inner Conductor | | 8.41 [27.59] | | Ω/1000ft [Ω/Km] |
| Operating Voltage (AC) | | | 335 | Vrms |
| Jacket Spark | | | 2,000 | Vrms |

### Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency | 0.1 | 0.25 | 0.5 | 1 | 3 | GHz |
| Insertion Loss (Typ.) | 0.365 | 0.44 | 0.557 | 0.77 | 1.07 | dB |
| Return Loss (Max.) | 15.56 | 15.563 | 15.563 | 15.563 | 15.563 | dB |

### Mechanical Specifications

**Cable Assembly**

| | |
|---|---|
| Length* | 18 in [457.2 mm] |
| Diameter | 0.315 in [8 mm] |
| Weight | 0.03 lbs [13.61 g] |

**Cable**

| | |
|---|---|
| Cable Type | RG316 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Stranded |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 1 |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male to SMA Male Cable 18 Inch Length Using RG316 Coax PE3573-18

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
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| | |
|---|---|
| Shield Layer 1 | Silver Plated Copper Braid |
| Jacket Material | FEP, Tan |
| Jacket Diameter | 0.102 in [2.59 mm] |

**Connectors**

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | SMA Male | SMA Male |
| Specification | MIL-STD-348A | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | 30 µin minimum | 30 µin minimum |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Specification | 100 µin minimum | 100 µin minimum |
| Coupling Nut Material and Plating | Brass, Nickel | Brass, Nickel |
| Coupling Nut Plating Specification | 100 µin minimum | 100 µin minimum |
| Hex Size | 5/16 inch | 5/16 inch |
| Torque | 3 in-lbs [0.34 Nm] | 3 in-lbs [0.34 Nm] |

Mechanical Specification Notes:
*All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

## Environmental Specifications

**Temperature**

| | |
|---|---|
| Operating Range | -55 to +165 deg C |

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

## Plotted and Other Data

Notes:
- Values at 25°C, sea level.

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### How to Order

Part Number Configuration: **PE3573 - xx uu**

- uu — Unit of Measure: cm = Centimeters, <blank> = Inches
- xx — Length
- PE3573 — Base Number

Example: PE3573-12 = 12 inches long cable
PE3573-100cm = 100 cm long cable

SMA Male to SMA Male Cable 18 Inch Length Using RG316 Coax 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male to SMA Male Cable 18 Inch Length Using RG316 Coax PE3573-18

URL: https://www.pasternack.com/sma-male-sma-male-rg316u-cable-assembly-pe3573-18-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.

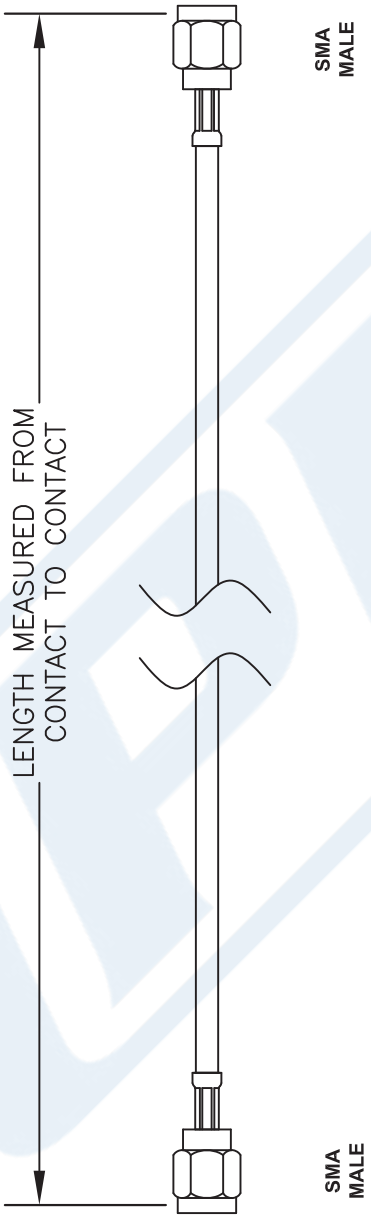
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# PE3573-18 CAD Drawing

SMA Male to SMA Male Cable 18 Inch Length Using RG316 Coax




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

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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].

DWG TITLE
PE3573

| CAD FILE | 102016 | SCALE N/A | SIZE A | 41742 |
|---|---|---|---|---|

FSCM NO. 53919

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