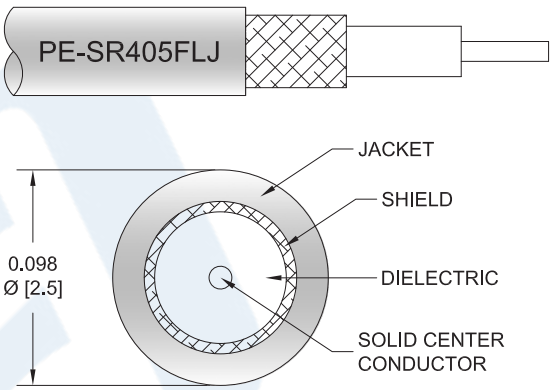
PASTERNACK
an INFINITE brand

# SMA Male to SMA Female Cable Using PE-SR405FLJ Coax with HeatShrink

## RF Cable Assemblies Technical Data Sheet PE3C0349/HS

### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Female
- Cable Type: PE-SR405FLJ




### Features

- Max Frequency 18 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket

### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3C0349/HS SMA male to SMA female cable using PE-SR405FLJ coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack SMA to SMA cable assembly has a male to female gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3C0349/HS SMA male to SMA female cable assembly operates to 18 GHz.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

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 Female Cable Using PE-SR405FLJ Coax with HeatShrink PE3C0349/HS

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

PASTERNACK
an INFINITE brand

# SMA Male to SMA Female Cable Using PE-SR405FLJ Coax with HeatShrink

## RF Cable Assemblies Technical Data Sheet PE3C0349/HS

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 18 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 69.5 | | % |
| RF Shielding | 100 | | | dB |
| Group Delay | | 1.43 [4.69] | | ns/ft [ns/m] |
| Capacitance | | 29 [95.14] | | pF/ft [pF/m] |
| DC Resistance Inner Conductor | | 65.7 [215.55] | | Ω/1000ft [Ω/Km] |
| DC Resistance Outer Conductor | | 10.2 [33.46] | | Ω/1000ft [Ω/Km] |

### Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency | 1 | 2 | 4.5 | 9 | 18 | GHz |
| Insertion Loss (Typ.) | 0.225 | 0.306 | 0.508 | 0.759 | 1.122 | dB/ft |
| | 0.74 | 1 | 1.67 | 2.49 | 3.68 | dB/m |

Electrical Specification Notes:
Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector.

### Mechanical Specifications

**Cable Assembly**

| | |
|---|---|
| Weight | 0.032 lbs [14.51 g] |

**Cable**

| | |
|---|---|
| Cable Type | PE-SR405FLJ |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 1 |
| Outer Conductor Material and Plating | Tinned Copper Composite Braid |
| Jacket Material | FEP, Black |
| Jacket Diameter | 0.105 in [2.67 mm] |
| One Time Minimum Bend Radius | 0.5 in [12.7 mm] |
| Repeated Minimum Bend Radius | 0.787 in [19.99 mm] |

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 Female Cable Using PE-SR405FLJ Coax with HeatShrink PE3C0349/HS

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

PASTERNACK
an INFINITE brand

SMA Male to SMA Female Cable Using PE-SR405FLJ Coax with HeatShrink

## RF Cable Assemblies Technical Data Sheet PE3C0349/HS

### Connectors

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | SMA Male | SMA Female |
| Specification | MIL-STD-348A | |
| Impedance | 50 Ohms | 50 Ohms |
| Mating Cycles | 500 | |
| Contact Material and Plating | Brass, Gold | Beryllium Copper, Gold over Nickel |
| Contact Plating Specification | 50 µin minimum | |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Stainless Steel, Gold | Brass, Gold over Nickel |
| Body Plating Specification | 10 µin minimum | |
| Coupling Nut Material and Plating | Brass, Nickel | |
| Coupling Nut Plating Specification | 100 µin minimum | |
| Hex Size | 5/16 inch | |
| Torque | 3 in-lbs [0.34 Nm] | |

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

### Plotted and Other Data

Notes:

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 Female Cable Using PE-SR405FLJ Coax with HeatShrink PE3C0349/HS

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

PASTERNACK
an INFINITE brand

# SMA Male to SMA Female Cable Using PE-SR405FLJ Coax with HeatShrink

## RF Cable Assemblies Technical Data Sheet PE3C0349/HS

### How to Order

Part Number Configuration: **PE3C0349/HS - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C0349/HS — Base Number

Example: PE3C0349/HS-12 = 12 inches long cable
PE3C0349/HS-100cm = 100 cm long cable

SMA Male to SMA Female Cable Using PE-SR405FLJ Coax with HeatShrink 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: SMA Male to SMA Female Cable Using PE-SR405FLJ Coax with HeatShrink PE3C0349/HS

URL: https://www.pasternack.com/sma-male-to-sma-female-cable-using-pe-sr405flj-with-heatshrink-pe3c0349-hs-p.aspx

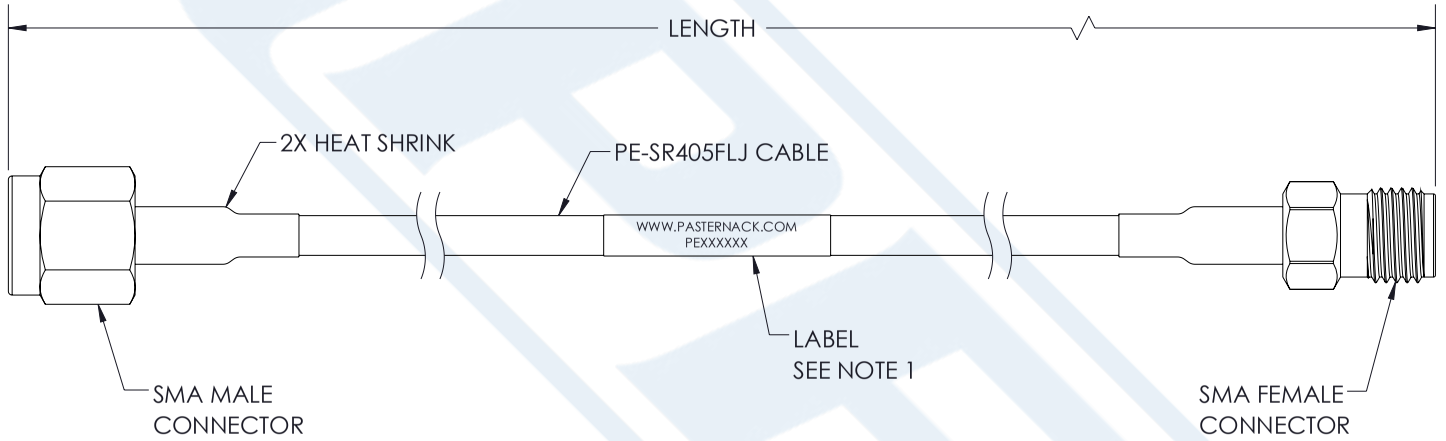


Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

# PE3C0349/HS CAD Drawing

SMA Male to SMA Female Cable Using PE-SR405FLJ Coax with HeatShrink

| REVISION | | | | | |
|---|---|---|---|---|---|
| ZONE | REV. | DESCRIPTION | DATE | CHANGED BY | APPROVED BY |
| | A | INITIAL RELEASE | 01/25/2023 | BPUCHASKI | AGANWANI |




NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS , ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [ 5 ]
.XX = ±.02 [ .5 ]
.XXX = ±.005 [ .13 ]
FRACTIONS ± 1/32
ANGLES ± 1°

CABLE LENGTH TOLERANCES:

≤12 [305] = +1 [25] / -0
>12 [305] ≤ 60 [1524] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.

PASTERNACK® an INFINITE brand
Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

| SCALE | SHEET |
|---|---|
| NONE | 1 OF 1 |

DESCRIPTION: SMA Male to SMA Female Cable Using PE-SR405FLJ Coax with HeatShrink

| SIZE | CAGE CODE | DRAWN BY | ITEM NO. | REV |
|---|---|---|---|---|
| A | 53919 | BPUCHASKI | PE3C0349/HS | A |

PE3C0349/HS REV 1.0

T-Rev.D2