



1.85mm Male to 1.85mm Male Precision Cable Using 098 Series Coax, RoHS

RF Cable Assemblies Technical Data Sheet

PE36678

Configuration

- Connector 1: 1.85mm Male
- Connector 2: 1.85mm Male
- Cable Type: 098 Series

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range | DC | | 65 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 69.5 | | % |
| RF Shielding | 90 | | | dB |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |
| Operating Voltage (AC) | | | 1,200 | Vrms |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-------------|--------|--------|-------|-------|--------|-------|
| Frequency | 6 | 12 | 24 | 36 | 48 | GHz |
| VSWR (Max.) | 1.07:1 | 1.09:1 | 1.1:1 | 1.2:1 | 1.22:1 | |

Electrical Specification Notes:

Short lengths up to 24" long may exhibit VSWR measurements up to 9% higher.

Mechanical Specifications

Cable Assembly

| | |
|------------------------------|--------------------|
| Weight | 0.011 lbs [4.99 g] |
| One Time Minimum Bend Radius | 0.25 in [6.35 mm] |

Cable

| | |
|--------------------------------------|---------------------------|
| Cable Type | 098 Series |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 3 |
| Shield Layer 1 | Silver Plated Copper Tape |

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 to 1.85mm Male Precision Cable Using 098 Series Coax, RoHS PE36678](#)



1.85mm Male to 1.85mm Male Precision Cable Using 098 Series Coax, RoHS

RF Cable Assemblies Technical Data Sheet

PE36678

| | |
|-----------------|---------------------------|
| Shield Layer 2 | Mylar Tape |
| Shield Layer 3 | Silver Plated Copper Tape |
| Jacket Material | FEP |
| Jacket Diameter | 0.098 in [2.49 mm] |

Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|----------------------------|----------------------------|
| Type | 1.85mm Male | 1.85mm Male |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Copper Clad Steel, Silver | Copper Clad Steel, Silver |
| Dielectric Type | PTFE | PTFE |
| Coupling Nut Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Hex Size | 5/16 in. | 5/16 in. |
| Torque | 8 in-lbs [0.9 Nm] | 8 in-lbs [0.9 Nm] |
| Body Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel |

Environmental Specifications

Temperature

Operating Range -48 to +204 deg C

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

RoHS Compliant Yes

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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 to 1.85mm Male Precision Cable Using 098 Series Coax, RoHS PE36678](#)



1.85mm Male to 1.85mm Male Precision
Cable Using 098 Series Coax, RoHS

RF Cable Assemblies Technical Data Sheet

PE36678

How to Order

Part Number Configuration:

PE36678

- **xx**

uu

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE36678-12 = 12 inches long cable
PE36678-100cm = 100 cm long cable

1.85mm Male to 1.85mm Male Precision Cable Using 098 Series Coax, RoHS 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.

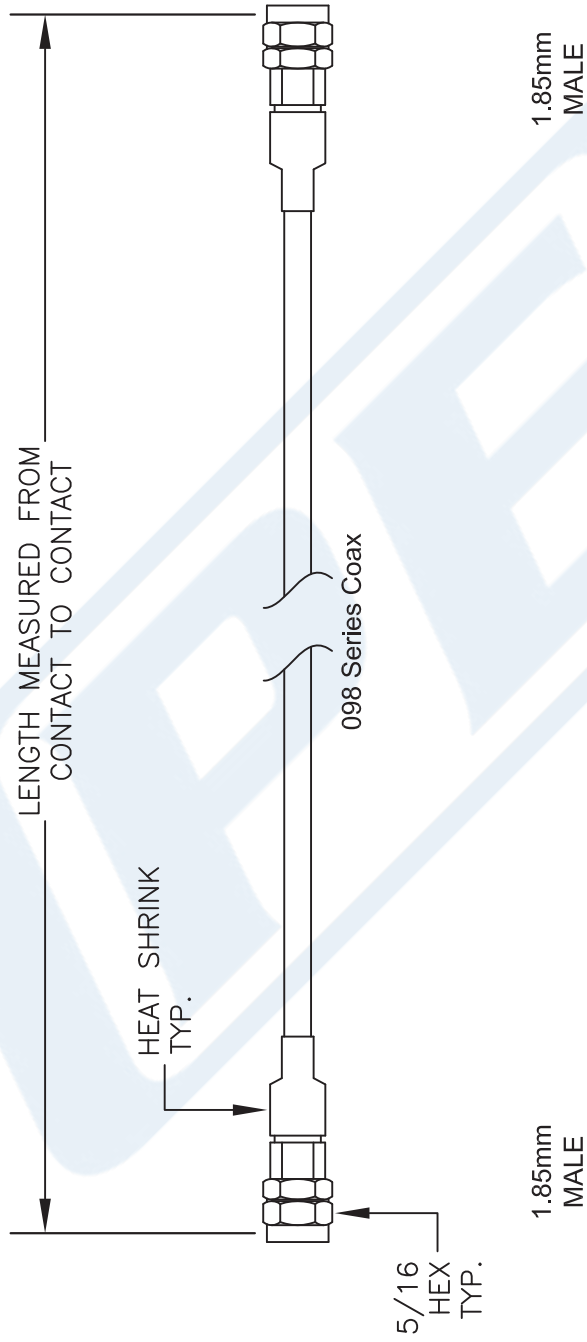
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1.85mm Male to 1.85mm Male Precision Cable Using 098 Series Coax, RoHS PE36678](#)

URL: <http://www.pasternack.com/1.85mm-male-1.85mm-male-095-series-cable-assembly-pe36678-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.

PE36678 CAD Drawing

1.85mm Male to 1.85mm Male Precision Cable Using 098 Series Coax, RoHS



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.

DWG TITLE
PE36678

FSCM NO. 53919

CAD FILE 102015

SCALE N/A

SIZE A

2233

(PE) PASTERNAK®
 THE ENGINEER'S RF SOURCE

Pasternack Enterprises, Inc.
 P.O. Box 16759 | Irvine | CA | 92623

Phone: (949) 261-1920 | Fax: (949) 261-7451
 Website: www.pasternack.com | E-Mail: sales@pasternack.com