



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

RF Cable Assemblies Technical Data Sheet

PE36678-18

### 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	

### Mechanical Specifications

#### Cable Assembly

Length	18 in [457.2 mm]
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
Shield Layer 2	Mylar 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 18 Inch Length Using 098 Series Coax, RoHS PE36678-18](#)



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Shield Layer 3  
Jacket Material  
Jacket Diameter

Silver Plated Copper Tape  
FEP  
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](http://www.Pasternack.com) for current document)

RoHS Compliant Yes

**Plotted and Other Data**

Notes:

- Values at 25°C, sea level.

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**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 18 Inch Length 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.

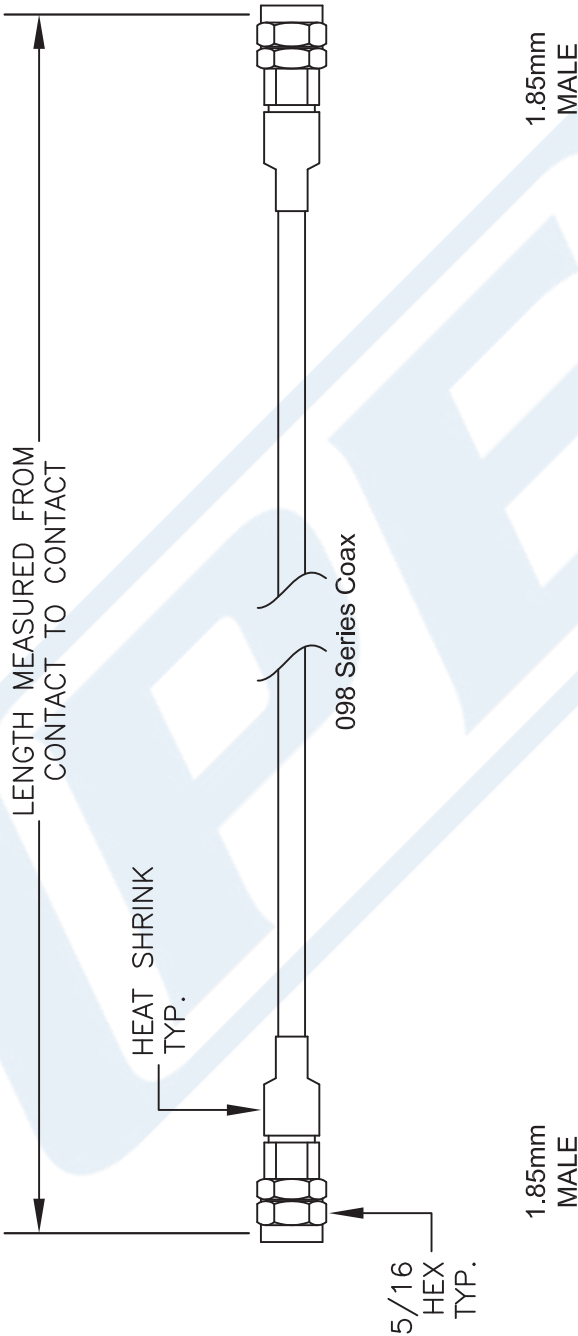
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1.85mm Male to 1.85mm Male Precision Cable 18 Inch Length Using 098 Series Coax, RoHS PE36678-18](http://www.pasternack.com/1.85mm-male-1.85mm-male-095-series-cable-assembly-pe36678-18-p.aspx)

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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.

PE36678-18 CAD Drawing

1.85mm Male to 1.85mm Male Precision Cable 18 Inch  
Length 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

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