

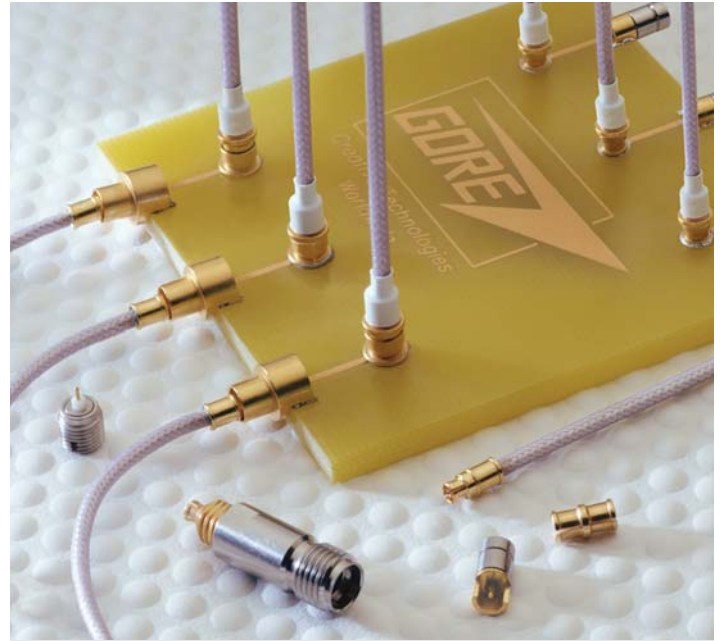


# GORE™ SMP and SMPM Test Adapters

## Summary

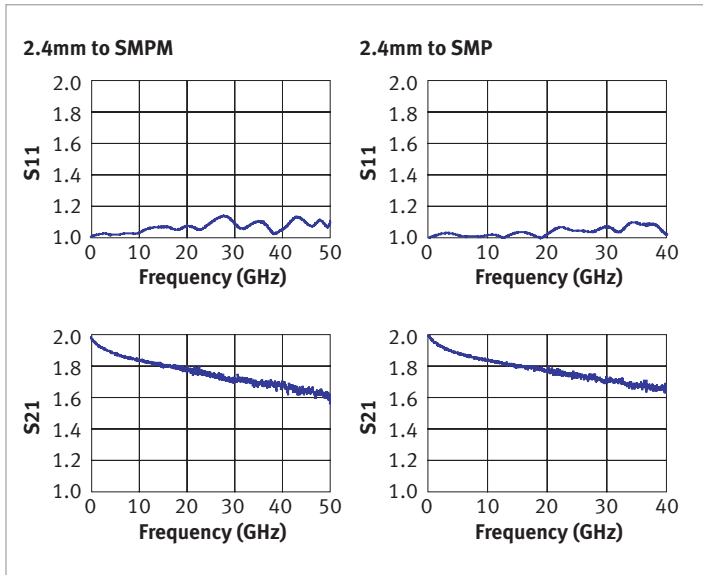
W. L. Gore and Associates designs and manufactures SMP and SMPM interfaces as a key building block in our family of high performance RF and microwave interconnects. While blindmate or push-on connectors cannot be supported with National Institute of Standards and Technology (NIST) traceable calibration standards, measurement of devices with these interfaces can be made accurately with Gore's high performance phase and loss matched adapters.

GORE™ SMP and SMPM Adapters offer a high accuracy of measurement with superior RF and microwave performance. Testing and production costs are greatly reduced because of increased accuracy in development and production testing. Gore is ready to supply your SMP and SMPM interconnect needs. Test adapters are available in a full range of interfaces including: 3.5mm, 2.4mm, 1.85mm, and SMA for production grade testing.



GORE™ SMP and SMPM Adapters offer a high accuracy of measurement with superior RF performance.

## TYPICAL PERFORMANCE



Note: Data from mated pairs.

## FEATURES AND BENEFITS

- Low insertion loss
- Phase and loss matched
- Low VSWR
- Reliable and repeatable measurements

## SPECIFICATIONS

	SMP	SMPM
Characteristic Impedance	50 ohms	50 ohms
RF Leakage at 3 GHz	-80 dB	-80 dB
RF Leakage at 3 – 26.5 GHz	-65 dB	-65 dB
VSWR (Typical)		
DC-26.5 GHz	<1.15:1	<1.10:1
26.5 – 40 GHz	<1.18:1	<1.15:1
40 – 67 GHz		<1.18:1
Phase Matching (Typical)	<1 ps	<1 ps
Insertion Loss Matching (Typical)	<0.1 dB	<0.1 dB



# GORE™ SMP and SMPM Test Adapters

## ADAPTER PART NUMBERS: 100-123-XXXX\*

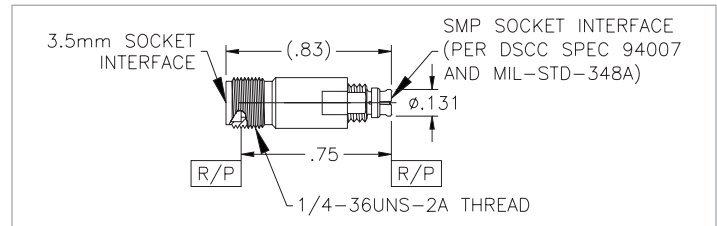
	SMP Socket	SMP Pin (FD)	SMP Pin (LD)	SMP Pin (SB)	SMPM Socket	SMPM Pin (FD)	SMPM Pin (SB)
SMA Socket	0285	0286	0289	0291	0259	0296	0293
SMA Pin	0288	0287	0290	0292	0298	0297	0294
3.5mm Socket	0140	0141	—	—	0135	0136	—
3.5mm Pin	0143	0142	—	—	0138	0137	—
3.5mm Socket (2 Hole)	—	—	0262	0270	—	—	—
3.5mm Pin (2 Hole)	—	—	0264	0271	—	—	—
2.4mm Socket	0015	0016	—	—	0020	0021	—
2.4mm Pin	0018	0017	—	—	0023	0022	—
1.85mm Socket	—	—	—	—	0096	0097	—
1.85mm Pin	—	—	—	—	0099	0098	—

Note: SMA and 3.5mm interfaces are mechanically interchangeable. 2.4mm and 1.85mm interfaces are mechanically interchangeable.

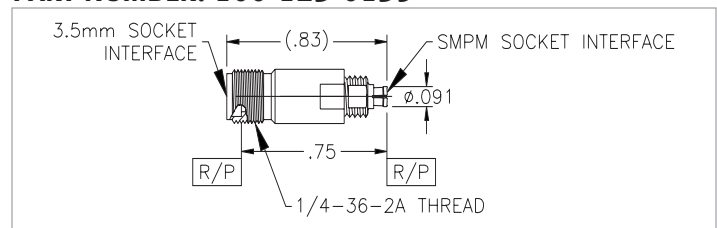
\*To select the part number, add the four digits of the adapter from the chart to 100-123-XXXX.

## Connector Drawings

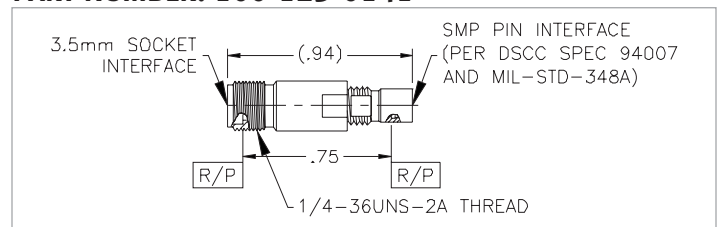
### 3.5mm Socket to SMP Socket, PART NUMBER: 100-123-0140



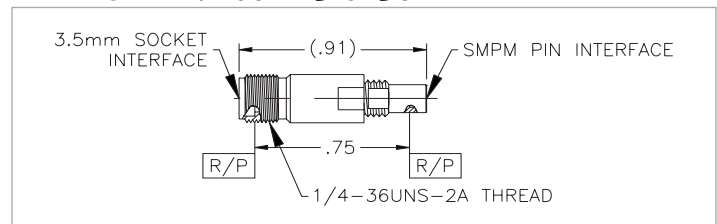
### 3.5mm Socket to SMPM Socket, PART NUMBER: 100-123-0135



### 3.5mm Socket to SMP Pin, Full Detent, PART NUMBER: 100-123-0141



### 3.5mm Socket to SMPM Pin, Full Detent, PART NUMBER: 100-123-0136



Note: Other connector drawings are available upon request

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