



GORE® PHASEFLEX®

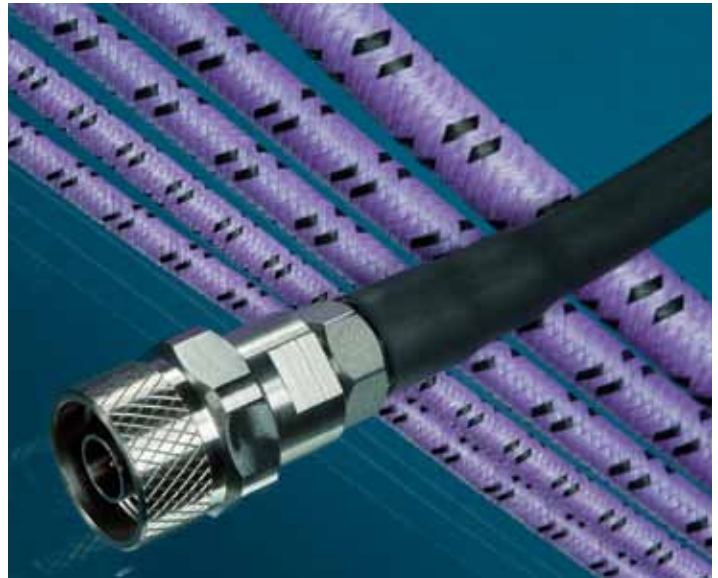
MICROWAVE/RF TEST ASSEMBLIES

Reduce total cost of test with durable, reliable performance

For test applications that require precise, repeatable measurements, GORE® PHASEFLEX® Microwave/RF Test Assemblies provide excellent phase and amplitude stability with flexure. The rugged, lightweight construction of these assemblies delivers reliable performance with longer service life and reduced equipment downtime, which results in lower costs for testing in laboratory, production, and field test environments.

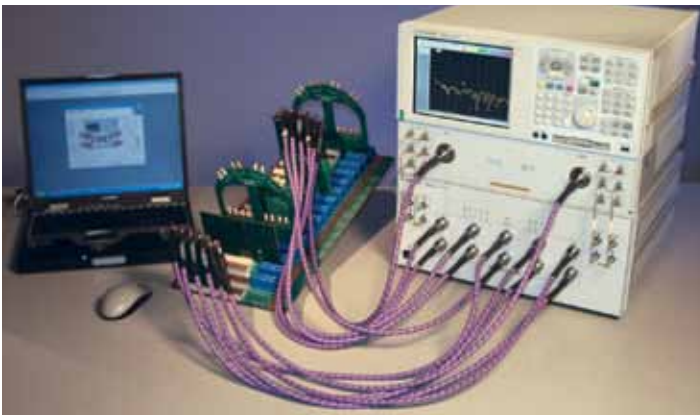
TYPICAL APPLICATIONS

- Bench-top testing
- High throughput RF production testing
- Portable analyzers
- Test rack systems
- Vector network analyzers (VNAs)
- Scalar network analyzers
- Antenna ranges
- Anechoic chambers
- Nearfield scanners
- Wireless telecommunication module testing
- Electromagnetic compliance testing
- Automated test equipment



Benefits of GORE® PHASEFLEX® Microwave/RF Test Assemblies

- Consistent, repeatable measurements with stable electrical performance up to 110 GHz
- Longer service life with durable construction that resists crushing, twisting, and kinking
- Enhanced phase and amplitude stability with flexure and temperature
- Increased throughput and reduced downtime with durable and reliable performance



Courtesy, Agilent Technologies, Inc.

RUGGED CONSTRUCTION DELIVERS LONGER SERVICE LIFE

With an internally ruggedized construction, GORE® PHASEFLEX® Microwave/RF Test Assemblies maintain measurement repeatability while withstanding demanding conditions such as continuous flexing, temperature cycling, broad temperature ranges, and frequent connect and disconnect. The consistent performance and reliability of these test assemblies increases the interval between time-consuming calibrations of the test system, which in turn increases throughput, and reduces the total cost of test.

Unlike conventionally designed RF test assemblies, GORE® PHASEFLEX® Microwave/RF Test Assemblies maintain excellent phase and amplitude stability with flexure. The unique cable construction allows a small bend radius without affecting performance (see Figure 1). Some cables have a minimum bend radius as small as 0.5 inches.



GORE® PHASEFLEX®

MICROWAVE/RF TEST ASSEMBLIES

GORE® PHASEFLEX® Microwave/RF Test Assemblies offer excellent electrical and mechanical performance (see Tables 2 and 3 for product specifications). Assemblies are available in 12, 24, 36, 48, and 60 inch lengths. These predetermined lengths correspond to 0.30, 0.61, 0.91, 1.22 and 1.52 meters. Special Purpose Test Assemblies are also available (see Tables 4 and 5 for product specifications).

Features for GORE® PHASEFLEX® Microwave/RF Test Assemblies include:

- torque, crush, and kink resistance
- abrasion resistance
- dust/moisture resistance
- performance over a wide temperature range
- chemical resistance
- high connector pull strength

PRECISE AND REPEATABLE MEASUREMENTS

The exceptional phase and amplitude stability of GORE® PHASEFLEX® Microwave/RF Test Assemblies ensures accurate and repeatable measurements. Although all of these assemblies exceed specifications for phase and amplitude stability, additional testing is performed on assemblies using cable types 0U, 0T, 0D, 0Z, and 0F to guarantee their phase and amplitude performance with flexure (see Table 1 for typical and guaranteed performance). While all other cable types (0Y, 0H, 0X, 0S, 0Q, 0P, 0M, 0W, 0R, 0K, 0G, CX) do not undergo this guaranteed stability testing, phase and amplitude stability performance is incorporated by design.

TABLE 1: TEST ASSEMBLIES WITH GUARANTEED PHASE AND AMPLITUDE STABILITY WITH FLEXURE¹

Gore Cable Type	Phase Stability with Flexure (\pm°)		Amplitude Stability with Flexure (\pm dB)	
	Typical Value	Maximum Value	Typical Value	Maximum Value
0U	2.0	4.7	0.05	0.15
0T	3.0	6.6	0.05	0.15
0D	5.0	9.6	0.05	0.15
0Z	6.0	11.8	0.05	0.15
0F	8.0	15.6	0.05	0.10

¹ The maximum value for guaranteed phase and amplitude stability was established using the following test method. The assembly was terminated with a short circuit and tested on a calibrated system. The VNA was normalized. A mandrel of 57 mm (2.25 in) radius was placed adjacent to the left or right side of the assembly, approximately at its midpoint. The assembly was coiled 360° around the mandrel and held in this position for one full sweep. Maximum deviation over the frequency range of analysis was recorded. The assembly was then returned to its initial straight position, and the VNA was normalized again. The mandrel was placed on the opposite side of the assembly and the test was repeated. All of the assemblies above are tested using this test method.

PHASE MATCHING

Upon request, phase or time delay matching can be specified for GORE® PHASEFLEX® Microwave/RF Test Assemblies with frequencies through 67 GHz. Gore can provide absolute and relative time delay matching to sub-picosecond tolerances. According to the performance requirements of the application, cable assemblies may be specified to meet absolute or relative matching values.

- **Absolute match:** One or more assemblies having a specific time delay or phase length target value \pm some tolerance value. This type of specification allows replacement or addition of individual cables in a matched set.
- **Relative match:** Two or more assemblies whose time delay or phase length fall within a specified match window. Relative matching ensures consistent matching within a set of cables, but an assembly from one set may not necessarily be matched with cable assemblies in another set.

FIGURE 1: THE ANATOMY OF GORE® PHASEFLEX® MICROWAVE/RF TEST ASSEMBLIES

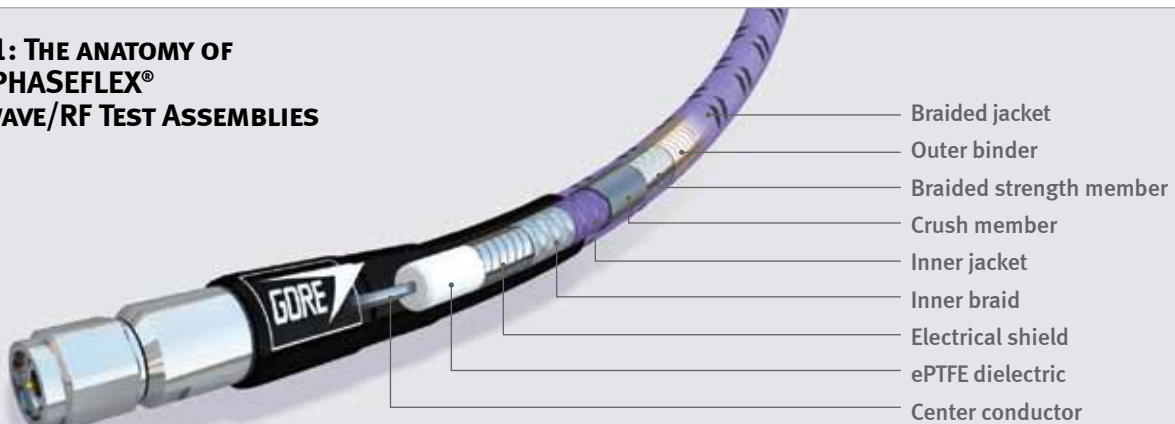


TABLE 2: TEST ASSEMBLY SPECIFICATIONS UP TO 18 GHz¹

Gore Cable Type		OY	OH	OX	OS	OU	OQ	OP	OM
ELECTRICAL PROPERTIES	Maximum Frequency (GHz)	3	18	18	18	18	18	18	18
	Typical VSWR	1.05:1	1.19:1	1.19:1	1.19:1	1.19:1	1.22:1	1.24:1	1.28:1
	Typical Insertion Loss (dB)	0.48	2.15	1.13	1.36	1.36	0.80	1.00	0.75
	Impedance (Nominal) (Ohms)	75	50						
	Guaranteed Phase and Amplitude Stability	No	No	No	No	Yes	No	No	No
	Typical Phase Stability (degree) ²	±0.5	±2.0	±2.0	±2.0	±2.0	±8.0	±6.0	±15.0
	Typical Amplitude Stability (dB) ²	< ±0.05							
	Dielectric Constant (Nominal)	1.4							
	Velocity of Propagation (Nominal) (%)	85							
	Shielding Effectiveness (dB through 18 GHz) ³	> 100							
Time Delay (Nominal) ns/cm (ns/in)	0.04 (0.103)								
MECH./ENV. PROPERTIES	Center Conductor	Solid	Stranded	Solid	Stranded	Stranded	Solid	Stranded	Solid
	Overall Diameter mm (in)	7.5 (0.295)	5.3 (0.210)	7.7 (0.305)	7.7 (0.305)	7.7 (0.305)	10.2 (0.400)	10.2 (0.400)	10.7 (0.420)
	Nominal Weight g/m (oz/ft)	144.4 (1.55)	68.9 (0.74)	147.6 (1.6)	147.6 (1.6)	147.6 (1.6)	275.6 (2.96)	275.6 (2.96)	295.3 (3.17)
	Minimum Bend Radius mm (in)	25.4 (1.0)	12.7 (0.5)	25.4 (1.0)	25.4 (1.0)	25.4 (1.0)	38.1 (1.5)	38.1 (1.5)	38.1 (1.5)
	Typical Flex Cycles ⁴	50,000	100,000	50,000	100,000	100,000	10,000	15,000	10,000
	Temperature Range (°C)	-55 to 125							
	Crush Resistance kgf/cm (lbf/in)	44.6 (250)	33.5 (187)	44.6 (250)					

TABLE 3: TEST ASSEMBLY SPECIFICATIONS UP TO 67 GHz¹

Gore Cable Type		OW	OR	OT	OK	OD	OZ	OF	
ELECTRICAL PROPERTIES	Maximum Frequency (GHz)	26.5	26.5	26.5	40	40	50	67	
	Typical VSWR	1.17:1	1.17:1	1.17:1	1.30:1	1.30:1	1.26:1	1.30:1	
	Typical Insertion Loss (dB)	1.43	1.71	1.71	2.65	3.35	3.78	5.84	
	Impedance (Nominal) (Ohms)	50							
	Guaranteed Phase and Amplitude Stability	No	No	Yes	No	Yes	Yes	Yes	
	Typical Phase Stability (degree) ²	±3.0	±3.0	±3.0	±5.0	±5.0	±6.0	±8.0	
	Typical Amplitude Stability (dB) ²	< ±0.05							
	Dielectric Constant (Nominal)	1.4							
	Velocity of Propagation (Nominal) (%)	85							
	Shielding Effectiveness (dB through 18 GHz) ³	> 100							
Time Delay (Nominal) ns/cm (ns/in)	0.04 (0.103)								
MECH./ENV. PROPERTIES	Center Conductor	Solid	Stranded	Stranded	Solid	Solid	Solid	Solid	
	Overall Diameter mm (in)	7.7 (0.305)	7.7 (0.305)	8.0 (0.315)	6.1 (0.240)	6.1 (0.240)	6.1 (0.240)	5.8 (0.230)	
	Nominal Weight g/m (oz/ft)	147.6 (1.6)	147.6 (1.6)	147.6 (1.6)	98.4 (1.05)	101.7 (1.1)	101.7 (1.1)	88.6 (0.95)	
	Minimum Bend Radius mm (in)	25.4 (1.0)							
	Typical Flex Cycles ⁴	50,000	100,000	100,000	50,000	20,000	20,000	20,000	
	Temperature Range (°C)	-55 to 125				-55 to 75			
	Crush Resistance kgf/cm (lbf/in)	44.6 (250)							

¹ The electrical specifications in this table are based on a 0.91 m (36 in) assembly length and maximum frequency with straight connectors.² When cable is wrapped 360° around a 57 mm (2.25 in) radius mandrel.³ Per MIL-STD-1344, method 3008.⁴ When bent ± 90° at a radius that is twice the minimum bend radius, test assembly performs reliably through the stated flex cycles.



GORE® PHASEFLEX®

MICROWAVE/RF TEST ASSEMBLIES

Special Purpose Test Assemblies

GORE® PHASEFLEX® Microwave/RF Test Assemblies include two special purpose test assemblies —18 GHz assemblies for high throughput production test applications; and flexible, ruggedized 110 GHz assemblies for benchtop testing (see Tables 4 and 5 for specifications). Connector and length configurations specific to these assemblies are available (see Tables 6 and 7).

HIGH THROUGHPUT PRODUCTION TEST ASSEMBLIES

Gore high throughput production test assemblies are engineered specifically to reduce total testing costs in production test environments. Their stable performance ensures precise and repeatable measurements, reducing the risk of testing errors and the need for time-consuming troubleshooting and system calibration. These test assemblies increase throughput on the manufacturing line by eliminating the need to use a torque wrench.



TABLE 4: HIGH THROUGHPUT PRODUCTION TEST ASSEMBLY SPECIFICATIONS¹

Gore Cable Type		OG	
ELECTRICAL PROPERTIES	Maximum Frequency (GHz)	6	18
	Typical VSWR	1.08:1	1.27:1
	Typical Insertion Loss (dB)	1.20	2.19
	Impedance (Nominal) (Ohms)	50	
	Typical Phase Stability (degree) ²	±0.5	±2.0
	Typical Amplitude Stability (dB) ²	< ±0.05	
	Dielectric Constant (Nominal)	1.4	
	Velocity of Propagation (Nominal) (%)	85	
	Shielding Effectiveness (dB through 18 GHz) ³	> 100	
	Time Delay (Nominal) ns/cm (ns/in)	0.04 (0.103)	
MECH./ENV. PROPERTIES	Center Conductor	Solid	
	Overall Diameter mm (in)	5.3 (0.210)	
	Nominal Weight g/m (oz/ft)	65.0 (0.70)	
	Minimum Bend Radius mm (in)	25.4 (1.00)	
	Typical Flex Cycles ⁴	100,000	
	Temperature Range (°C)	-55 to 125	
	Crush Resistance kgf/cm (lbf/in)	33.5 (187)	
	Connector Retention N (lbf)	> 445 (> 100)	

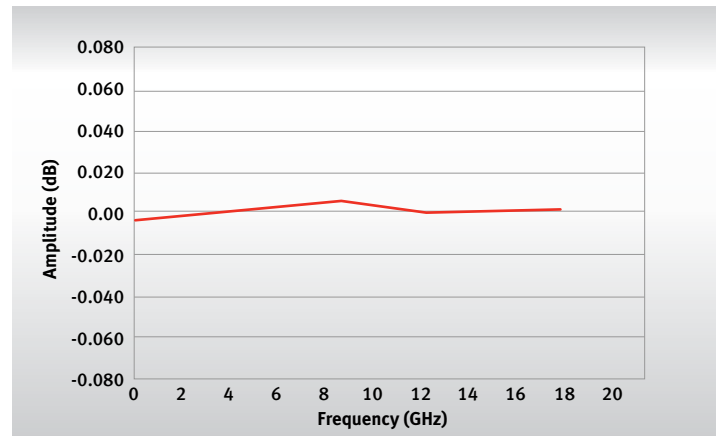
The unique construction of these assemblies includes:

- Flexible, robust strain-relief boots
- Easy grip, quick-turn connectors; eliminating the need for a torque wrench
- Durable, highly flexible, small diameter cable construction

GORE® PHASEFLEX® Microwave/RF Test Assemblies are engineered to withstand the frequent torque, bending, and shaking common to test and manufacturing floor environments. These assemblies demonstrate excellent stability performance (see Figure 2).

GORE® PHASEFLEX® Microwave/RF Test Assemblies provide reliable electrical and mechanical performance for high throughput production test applications (see Table 4).

FIGURE 2: TYPICAL AMPLITUDE STABILITY WITH FLEXURE AND SHAKE¹



¹ Data is based on a 1 m (39.4 in) assembly.

¹ The electrical specifications in this table are based on a 1 m (39.4 in) assembly length at 6 GHz and 18 GHz.

² When cable is wrapped 360° around a 57 mm (2.25 in) radius mandrel.

³ Per MIL-STD-1344, method 3008.

⁴ When bent ± 90° at a radius that is twice the minimum bend radius, test assembly performs reliably through the stated flex cycles.

110 GHz TEST ASSEMBLIES

Gore 110 GHz ruggedized cable assemblies can be flexed, formed, or repositioned without damage while providing excellent stability with flexure and temperature, while maintaining excellent insertion loss and VSWR (see Figures 3 and 4). These assemblies provide reliable electrical and mechanical performance (see Table 5).



FIGURE 3: TYPICAL VSWR¹

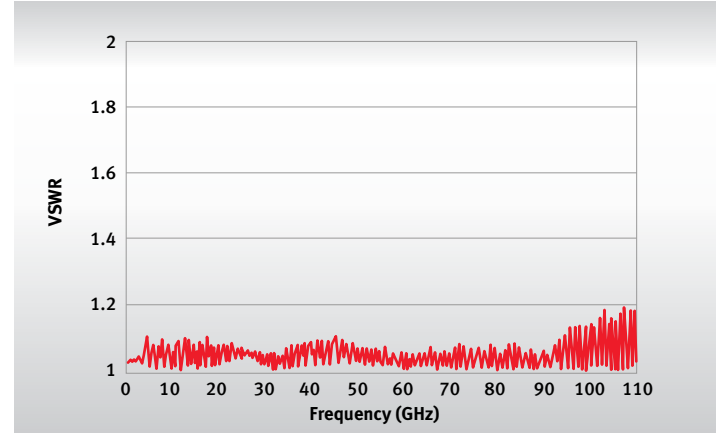


FIGURE 4: TYPICAL INSERTION LOSS¹

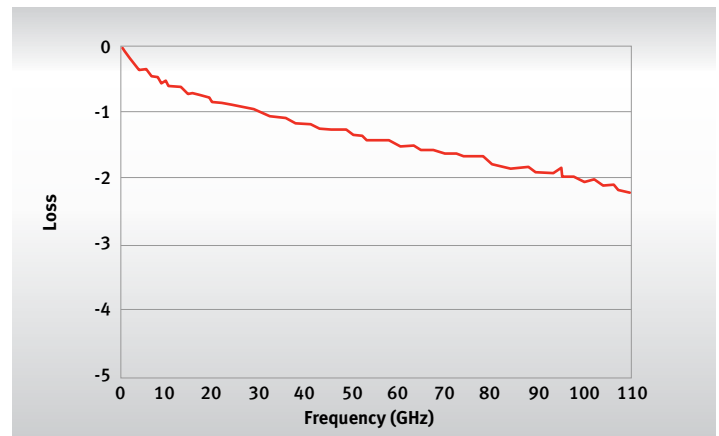


TABLE 5: 110 GHz TEST ASSEMBLY SPECIFICATIONS¹

Gore Cable Type		CX
ELECTRICAL PROPERTIES	Maximum Frequency (GHz)	110
	Typical VSWR	1.20:1
	Typical Insertion Loss (dB)	2.14
	Impedance (Nominal) (Ohms)	50
	Typical Phase Stability (degree) ²	±1.0
	Typical Amplitude Stability (dB) ²	< ±0.05
	Dielectric Constant (Nominal)	1.4
	Velocity of Propagation (Nominal) (%)	85
	Shielding Effectiveness (dB through 18 GHz) ³	> 100
	Time Delay (Nominal) ns/cm (ns/in)	0.04 (0.103)
MECH./ENV. PROPERTIES	Center Conductor	Solid
	Overall Diameter mm (in)	4.2 (0.167)
	Nominal Weight g/m (oz/ft)	55.8 (0.60)
	Minimum Bend Radius mm (in)	10.2 (0.40)
	Temperature Range (°C)	-55 to 125
	Crush Resistance kgf/cm (lbf/in)	44.6 (250)

¹ The electrical specifications in this table are based on a 16 cm (6.3 in) assembly length.

² When cable is bent 90° around a 25.4 mm (1 in) radius mandrel.

³ MIL-STD-1344, method 3008.



GORE® PHASEFLEX®

MICROWAVE/RF TEST ASSEMBLIES

CONNECTOR OPTIONS

Connectors available for GORE® PHASEFLEX® Microwave/RF Test Assemblies are specifically engineered to optimize performance of the assembly (see Table 6 for connector options). Gore's 601 interface allows the use of field-replaceable connectors on selected 18 GHz cable assemblies (see Table 6). These

replaceable connectors thread onto the 601 interface. The replaceable interface cable assembly and the replaceable connectors should be ordered as separate line items (see Table 8 for available replaceable connectors).

TABLE 6: CONNECTOR OPTIONS

Connector Type	Max. Freq. (GHz) ¹	Gore Cable Type																	
		0Y	0G	0H	0X	0S	0U	0Q	0P	0M	0W	0R	0T	0K	0D	0Z	0F	0X	
		3.0	18	18	18	18	18	18	18	18	26.5	26.5	26.5	40	40	50	67	110	
Type FD Male	3.0	ZLF																	
Type FD Female	3.0	ZLX																	
7/16 Male	7.0				ZLY	ZLY													
7/16 Female	7.0				ZLZ	ZLZ													
TNC Male	12.4				T01	T01	T01	T01	T01										
Type N Male	12.4	N01			N01	N01		N01	N01	N01									
Type N Female	12.4	N02			N02	N02		N02	N02										
SMA Male ²	18		OS1	R01	R01	R01	R01	R01	R01	R01					R01				
SMA Box Right-Angle Male	18			R71	R71	R71	R71	R71	R71	R71					R71				
SMA Female	18			R02	R02	R02	R02	R02	R02	R02									
TNCA Male	18				C01	C01	C01	C01	C01	C01									
TNCA Box Right-Angle Male	18				C71	C71	C71	C71	C71	C71									
TNCA Female	18				C02	C02	C02	C02		C02									
Precision N Male (Field Grade) ³	18		ON1			ZKU													
Precision N Male (Instrument Grade)	18				Q01	Q01	Q01	Q01	Q01	Q01									
Precision N Right-Angle Male	18				Q71	Q71	Q71	Q71	Q71	Q71									
Precision N Female (Field Grade)	18					ZKV													
Precision N Female (Instrument Grade)	18				Q02	Q02	Q02	Q02	Q02	Q02									
7 mm Hermaphroditic	18				K00	K00	K00		K00										
3.5 mm Male	26.5				D01	D01	D01				D01	D01	D01						
3.5 mm Female	26.5					D02	D02				D02	D02	D02						
3.5 mm Ruggedized Port Female	26.5						OHA								OHA				
3.5 mm Ruggedized DUT Male	26.5						OHB								OHB				
2.92 mm Male	40														OCQ	OCQ	OCQ		
2.92 mm Box Right-Angle Male	40														ZQA				
2.92 mm Female	40														OCP	OCP	OCP		
2.4 mm Male	50														OCJ		OCJ		
2.4 mm Female	50														OCC		OCC		
1.85 mm Male	67																		OCB
1.85 mm Female	67																		OCA
1.0 mm Male	110																		OAB
1.0 mm Female	110																		OAA
Interface for Replaceable Connectors ⁴	18				601	601	601	601	601	601									

¹ The maximum operating frequency of a test assembly is determined as the lowest frequency of either the connectors or the cable.

² OS1 connector code is an easy grip, quick-turn SMA connector.

³ ON1 connector code is an easy grip, quick-turn Precision N connector.

⁴ See Table 8 for compatible connector options that are available separately.

ORDERING INFORMATION

To order a Special Purpose Test Assembly from Gore, select the part number needed (see Table 7 for part number details).

GORE® PHASEFLEX® Microwave RF/Test Assemblies are identified by a 12-character part number. This number designates the cable type, connector types, and assembly length:

1
2
3
4
5
6
7
8
9
10
11
.12

Cable Type Connector A Connector B Assembly Length

Positions 1–2: See Tables 2 and 3 for the two-letter codes representing each cable type.

Positions 3–5 and 6–8: See Table 6 for the list of connectors available for each cable type. Connector codes A and B must be in alphanumeric order. Additionally, Gore offers an interface that can be used with replaceable connectors for 18 GHz cables (see Table 8).

Positions 9–12: The length of the assembly is expressed in inches to the nearest tenth, including zeroes to fill positions if the length is less than three digits. For example, the length of a 24-inch test assembly is specified as 024.0 in the last four digits of the part number. Cables are available in standard lengths of 12 in (0.30 m), 24 in (0.61 m), 36 in (0.91 m), 48 in (1.22 m), and 60 in (1.52 m).

The Gore Microwave/RF Assembly Builder is a step-by-step tool that allows you to configure and request a quote for a test assembly. For more information, visit www.gore.com/rfcablebuilder.

TABLE 7: ORDERING INFORMATION FOR SPECIAL PURPOSE TEST ASSEMBLIES

All sales orders and request for quotes for High Throughput Production Test Assemblies (Gore's OG cable part numbers) should be submitted directly to Richardson RFPD (Gore authorized global distributor) at www.richardsonrfpd.com.

Part Number	Gore Cable Type	Connector A	Connector B	Length in/(m)
OG0S10S1039.4	OG	SMA Male	SMA Male	39.4 (1.00)
OG0N10S1039.4	OG	Precision N Male	SMA Male	39.4 (1.00)
OG0N10N1039.4	OG	Precision N Male	Precision N Male	39.4 (1.00)
OG0S10S1059.1	OG	SMA Male	SMA Male	59.1 (1.50)
OG0N10S1059.1	OG	Precision N Male	SMA Male	59.1 (1.50)
OG0N10N1059.1	OG	Precision N Male	Precision N Male	59.1 (1.50)

TABLE 7: ORDERING INFORMATION FOR SPECIAL PURPOSE TEST ASSEMBLIES, CONTINUED

Part Number	Gore Cable Type	Connector A	Connector B	Length cm/(in)
CX0AB0ABC10.0	CX	1.0 mm Male	1.0 mm Male	10.0 (3.9)
CX0AA0ABC10.0	CX	1.0 mm Female	1.0 mm Male	10.0 (3.9)
CX0AA0AAC10.0	CX	1.0 mm Female	1.0 mm Female	10.0 (3.9)
CX0AB0ABC13.0	CX	1.0 mm Male	1.0 mm Male	13.0 (5.1)
CX0AA0ABC13.0	CX	1.0 mm Female	1.0 mm Male	13.0 (5.1)
CX0AA0AAC13.0	CX	1.0 mm Female	1.0 mm Female	13.0 (5.1)
CX0AB0ABC16.0	CX	1.0 mm Male	1.0 mm Male	16.0 (6.3)
CX0AA0ABC16.0	CX	1.0 mm Female	1.0 mm Male	16.0 (6.3)
CX0AA0AAC16.0	CX	1.0 mm Female	1.0 mm Female	16.0 (6.3)
CX0AB0ABC20.0	CX	1.0 mm Male	1.0 mm Male	20.0 (7.9)
CX0AA0ABC20.0	CX	1.0 mm Female	1.0 mm Male	20.0 (7.9)
CX0AA0AAC20.0	CX	1.0 mm Female	1.0 mm Female	20.0 (7.9)
CX0AB0ABC24.0	CX	1.0 mm Male	1.0 mm Male	24.0 (9.4)
CX0AA0ABC24.0	CX	1.0 mm Female	1.0 mm Male	24.0 (9.4)
CX0AA0AAC24.0	CX	1.0 mm Female	1.0 mm Female	24.0 (9.4)
CX0AB0ABC30.0	CX	1.0 mm Male	1.0 mm Male	30.0 (11.8)
CX0AA0ABC30.0	CX	1.0 mm Female	1.0 mm Male	30.0 (11.8)
CX0AA0AAC30.0	CX	1.0 mm Female	1.0 mm Female	30.0 (11.8)

TABLE 8: ORDERING INFORMATION FOR REPLACEABLE CONNECTORS

Connector	Part Number
SMA Male	10020014
SMA Female	10028708
TNCA Female	10034080
Precision N Male	10020009
Precision N Female	10032620
7 mm Hermaphroditic	10020012
TNCA Male	10020001
3.5 mm Male	10060062
3.5 mm Ruggedized DUT Male	10292654
3.5 mm Female	10066130



GORE® PHASEFLEX®

MICROWAVE/RF TEST ASSEMBLIES

NOTICE — USE RESTRICTIONS APPLY

Not for use in food, drug, cosmetic or medical device
manufacturing, processing, or packaging operations.

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Наши преимущества:

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- Экспресс доставка в любую точку России;
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- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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