GORE® PHASEFLEX®

Microwave/RF Test Assemblies

High Throughput Production Test
The New "0G" Cable

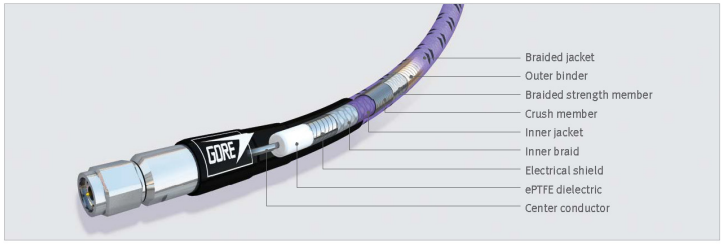
Summary

The High Throughput Production Test Assemblies (Gore Cable Type 0G) are engineered specifically to reduce total testing costs for high throughput applications in production environments. Their stable performance ensures precise measurements and repeatability, 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.

Mechanical Characteristics

The unique construction of these assemblies includes
- a flexible strain-relief boot
- an easy-grip, one-turn connector
- a small diameter and durable flexibility

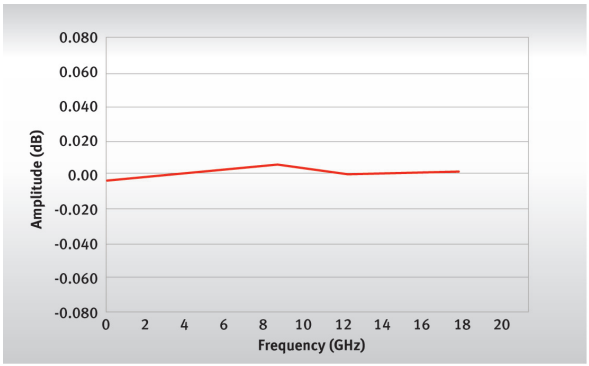
These test assemblies are engineered to withstand the frequent torque, bending, and shaking common to test and manufacturing floor environments.



Stability

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 production test environments.

Typical Amplitude Stability with Flexure and Shake



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

Excellent flexibility, performance and robustness

Features and Benefits

- Long service life in production test environments
- Quick connect/disconnect
- Crush and torque resistant
- Flexible and formable
- Phase and amplitude stable with flexure and temperature
- Competitively priced – call for a quote

Specifications

Impedance (nominal)	50 Ω ± 1 Ω
Frequency range	DC – 18 GHz
Cable diameter (nominal)	5.3 mm (0.21 in)
Minimum bend radius	25.4 mm (1.0 in)
Typical Flex life	100,000 cycles
Crush resistance	33.5 kgf/cm (187 lbf/inch)
Nominal dielectric constant	1.4
Velocity of propagation (nom)	85%
Shielding effectiveness*	> 100 dB thru 18 GHz
Temperature range	-55°C – 125°C
Durability (Mating Cycles)	N Type: 5000 cycles SMA Type: 2000 cycles

**Per Mil-Std-1344, method 3008*

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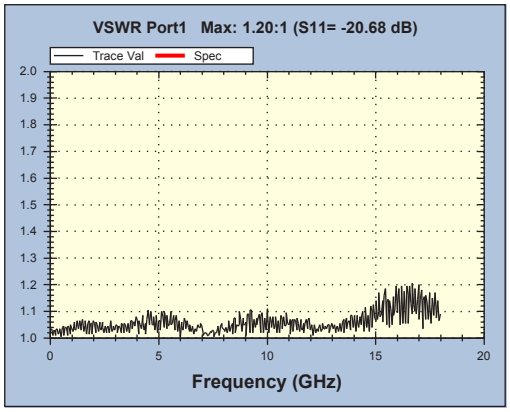
Electrical Performance

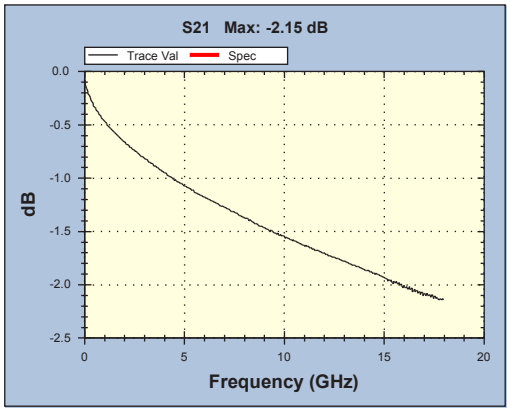
Standard Lengths	Typical Insertion Loss	Typical VSWR
1 m (39.4 in.)	1.29 dB @ 6 GHz 2.35 dB @ 18 GHz	1.12:1 @ 6 GHz 1.30:1 @ 18 GHz
1.5 m (59.1 in.)	1.87 dB @ 6 GHz 3.38 dB @ 18 GHz	1.12:1 @ 6 GHz 1.30:1 @ 18 GHz

Typical Performance

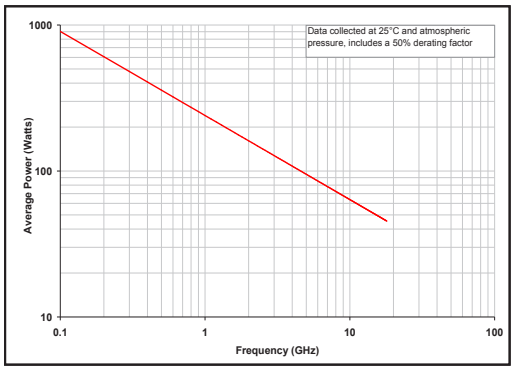
Typical VSWR for a 1 m assembly with Precision N connectors.



Typical Insertion Loss for a 1 m assembly with Precision N connectors.



Power Handling for Gore Cable Type 0G

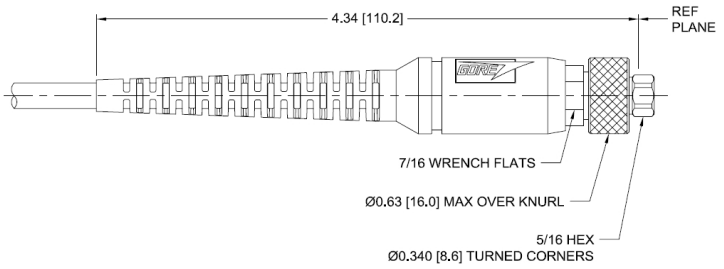


Order Information

Part Number	Connector A	Connector B	Length cm (in)
0G0S10S1039.4	SMA male	SMA male	100 (39.4)
0G0N10S1039.4	Precision N male	SMA male	100 (39.4)
0G0N10N1039.4	Precision N male	Precision N male	100 (39.4)
0G0S10S1059.1	SMA male	SMA male	150 (59.1)
0G0N10S1059.1	Precision N male	SMA male	150 (59.1)
0G0N10N1059.1	Precision N male	Precision N male	150 (59.1)

Connector Drawings

SMA Male - Connector Part No. 0S1



Precision N Male - Connector Part No. 0N1