



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.



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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.



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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.



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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 | | | | | | | | | | | | | | OCK | | OCK | | |
| 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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- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- 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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