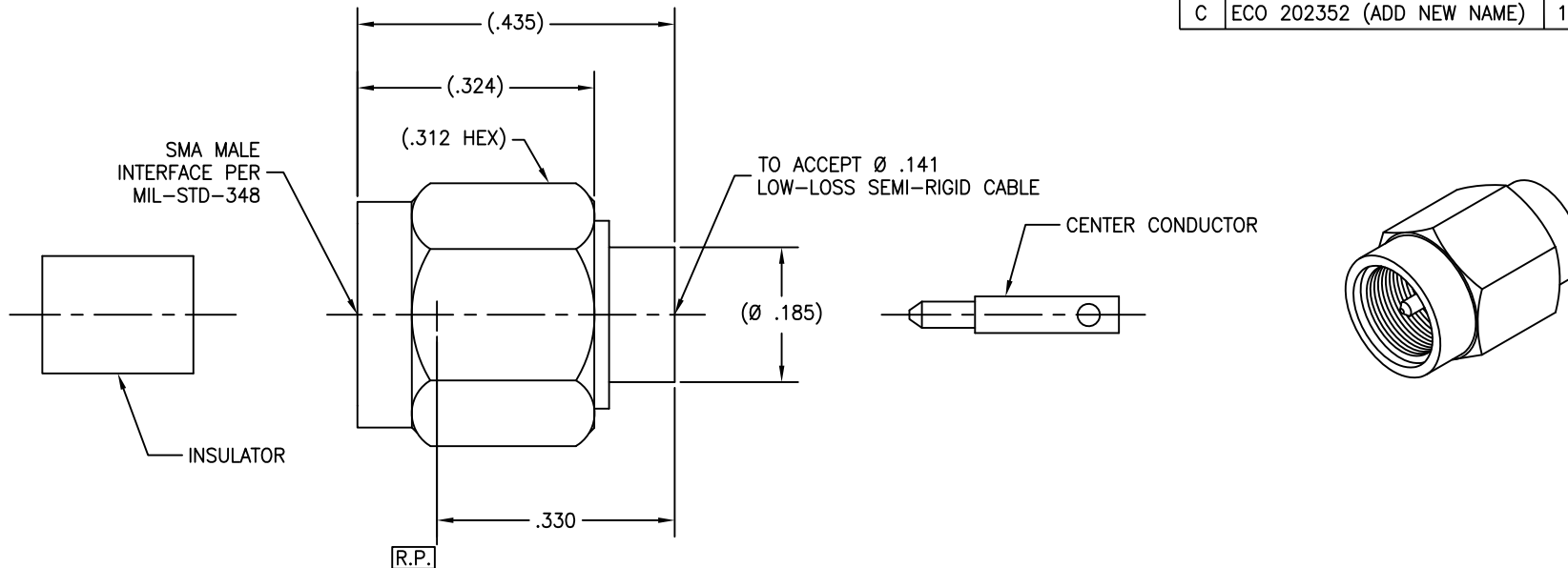


|       |
|-------|
| P/N   |
| BASIC |
| SF    |

| REVISIONS |                           |          |     |
|-----------|---------------------------|----------|-----|
| REV       | DESCRIPTION               | DATE     | BY  |
| A         | ECO 14396                 | 04.15.02 | ATV |
| B         | ECO 19630                 | 10.05.06 | DKN |
| C         | ECO 202352 (ADD NEW NAME) | 11.20.24 | DKN |



NOTE:  
CENTER CONDUCTOR & INSULATOR TO BE PACKAGED AND SHIPPED UNASSEMBLED.

| MATERIAL:   | ELECTRICAL:   | MECHANICAL:  | ENVIRONMENTAL:   |
|---|---|--|--|
| Body & Coupling Nut:<br>303 sst per ASTM A-582.<br>Center Conductor:<br>Brass Alloy C360 per ASTM B-16.<br>Retaining Ring:<br>BeCu alloy per ASTM B-197.<br>Gasket:<br>Silicone Rubber per A-A-59588<br>Insulator:<br>PTFE per ASTM D-1710. | Impedance: 50 Ohms nominal.<br>Frequency Range: DC to 18.0 GHz.<br>VSWR: 1.05 + .005 x f(GHz).<br>Insertion Loss: .03√f(GHz).<br>Working Voltage: 500 Vrms max @ sea level.<br>Dielectric Withstanding Voltage: 1500 Vrms min.<br>R.F. HiPot Voltage: 1000 Vrms min @ 5MHZ.<br>Corona Level: 375 Vrms @ 70,000 ft.<br>Insulation Resistance: 5000 MegOhms min.<br>R.F. Leakage: -(90 - fGHz) dB.<br>Contact Resistance:<br>Initial:<br>Center Contact: 2.0 Milliohm max.<br>Outer Contact: 2.0 Milliohm max.<br>After Environment:<br>Center Contact: 3.0 Milliohm max.<br>Outer Contact: NA. | Mating Characteristics:<br>Interface per Mil-Std-348.<br>Force To Engage & Disengage:<br>Torque: 2 inch-pounds max.<br>Longitudinal Force: NA.<br>Connector Durability:<br>500 cycles min @ 12 cycles/minute max.<br>Permeability: Less than 2.0 mu.<br>Coupling Proof Torque: 15 inch-pounds min.<br>Coupling Mech. Retention: 60 pounds min. | Temperature Range: -65° to +165°.<br>Thermal Shock:<br>Mil-Std-202, Method 107, Test Cond. A.<br>Moisture Resistance:<br>Mil-Std-202, Method 106, Insulation resistance at least 200 MegOhms within 5 minutes after removal from humidity.<br>Corrosion:<br>Mil-Std-202, Method 101, Test Cond. B.<br>Vibration:<br>Mil-Std-202, Method 204, Test Cond. D.<br>Shock:<br>Mil-Std-202, Method 213, Test Cond. I. |

| FINISH:  | APPLICABLE Amphenol CDI DOCUMENTS   | TOLERANCES AND NOTES EXCEPT AS NOTED | MATERIAL  | SPECIFICATION | PROCUREMENT |    |    |  |   |                   |      |     |          |            |  |           |  |         |  |             |              |          |  |           |              |   |  |
|--|---|--------------------------------------|-----------|---------------|-------------|----|----|--|---|-------------------|------|-----|----------|------------|--|-----------|--|---------|--|-------------|--------------|----------|--|-----------|--------------|---|--|
| Coupling Nut:<br>(for SF): Passivated per ASTM A-967.<br>(for BASIC): Gold plate per ASTM B-488, Type II, Code C, Class .25;<br>Over nickel under plate per SAE-AMS-QQ-N-290, Class 1.<br><br>Body & Center Conductor:<br>Gold plate per ASTM B-488, Type II, Code C or D, Class 1.25;<br>Over nickel under plate per SAE-AMS-QQ-N-290, Class 1. | <table border="1"> <tr><th>WORK STD</th><th>PROD INST</th><th>ASSY INST</th></tr> <tr><td>NA</td><td>NA</td><td>NA</td></tr> </table> | WORK STD                             | PROD INST | ASSY INST     | NA          | NA | NA | INTERPRET DRAWING PER ASME Y14.5-2018<br>DIMENSIONS ARE IN INCHES:<br>LINEAR .XXX ±.015 .XXX ±.005 ANGLAR ± 1/2°<br>FRACTION ± 1/32<br><br>1. MACHINE FINISH: #3/RMS<br>2. BREAK ALL SHARP EDGES .003 MAX.<br>3. MACHINED FILLETS .005 MAX.<br>4. MACHINED SURFACES SQUARE TO RESPECTIVE AXES WITHIN .005 INCHES PER INCH.<br>5. MACHINED DIAMETERS CONCENTRIC WITH .002 T.I.R.<br>6. DIMENSIONS TO BE MET BEFORE PLATING.<br>7. CHAMFER ALL THREADS 45°.<br>8. THREADS PER 1H-26.<br>9. REMOVE FRAYED EDGES ON TEFLON.<br>10. REMOVE ALL BURRS. | <table border="1"> <tr><th>APPROVAL INITIALS</th><th>DATE</th></tr> <tr><td>IMG</td><td>03.12.02</td></tr> <tr><td>CHECKED BY</td><td></td></tr> <tr><td>TEST ENGG</td><td></td></tr> <tr><td>QUALITY</td><td></td></tr> <tr><td>DESIGN ENGG</td><td>DNg 12.01.06</td></tr> <tr><td>MFG ENGG</td><td></td></tr> <tr><td>ECO APPRV</td><td>DNg 11.20.24</td></tr> </table> | APPROVAL INITIALS | DATE | IMG | 03.12.02 | CHECKED BY |  | TEST ENGG |  | QUALITY |  | DESIGN ENGG | DNg 12.01.06 | MFG ENGG |  | ECO APPRV | DNg 11.20.24 | Amphenol CDI 12900 Alondra Blvd. Cerritos, CA 90703<br>TITLE: SMA MALE STRAIGHT TO Ø .141 LOW-LOSS SEMI-RIGID CALBE (W/ CONTACT)<br>SCALE: 10/1<br>DIRECTORY\SUB-DIRECTORY: _OUTLINE\<br>SHEET 1 of 1<br>SIZE: C 30990<br>DRAWING NO.: 5285-3<br>REV: C |  |
| WORK STD   | PROD INST   | ASSY INST                            |           |               |             |    |    |  |   |                   |      |     |          |            |  |           |  |         |  |             |              |          |  |           |              |   |  |
| NA   | NA  | NA                                   |           |               |             |    |    |  |   |                   |      |     |          |            |  |           |  |         |  |             |              |          |  |           |              |   |  |
| APPROVAL INITIALS  | DATE  |                                      |           |               |             |    |    |  |   |                   |      |     |          |            |  |           |  |         |  |             |              |          |  |           |              |   |  |
| IMG  | 03.12.02  |                                      |           |               |             |    |    |  |   |                   |      |     |          |            |  |           |  |         |  |             |              |          |  |           |              |   |  |
| CHECKED BY   |   |                                      |           |               |             |    |    |  |   |                   |      |     |          |            |  |           |  |         |  |             |              |          |  |           |              |   |  |
| TEST ENGG  |   |                                      |           |               |             |    |    |  |   |                   |      |     |          |            |  |           |  |         |  |             |              |          |  |           |              |   |  |
| QUALITY  |   |                                      |           |               |             |    |    |  |   |                   |      |     |          |            |  |           |  |         |  |             |              |          |  |           |              |   |  |
| DESIGN ENGG  | DNg 12.01.06  |                                      |           |               |             |    |    |  |   |                   |      |     |          |            |  |           |  |         |  |             |              |          |  |           |              |   |  |
| MFG ENGG   |   |                                      |           |               |             |    |    |  |   |                   |      |     |          |            |  |           |  |         |  |             |              |          |  |           |              |   |  |
| ECO APPRV  | DNg 11.20.24  |                                      |           |               |             |    |    |  |   |                   |      |     |          |            |  |           |  |         |  |             |              |          |  |           |              |   |  |