

CONTROL DRAWING

29981SVCR-32-41

A

NOTES:

1. DESCRIPTION:

CABLE CONNECTOR, SMPM FEMALE, FLOAT MOUNT, VITA 67 COMPLIANT, ON HUBER+SUHNER Astrolab HIGH PERFORMANCE / HIGH PULL STRENGTH astro - STEEL - flex I SERIES COAXIAL CABLE 32041E. CONNECTORS ARE DESIGNED TO BE USED WITH HUBER+SUHNER Astrolab DAUGHTER CARD MODULES P/N 29981-DCM4 (VITA 67.1) AND 29981-DCM8 (VITA 67.2). THIS CONNECTOR IS RUGGEDIZED AND IT IS SUITABLE FOR COMPLEX, CONGESTED INSTALLATIONS. WHEN INSTALLED AND BENT AT THE MINIMUM BEND RADIUS, THE CONNECTOR WILL TOLERATE MULTIPLE ±90° ROTATIONS AT THE CABLE CONNECTOR JUNCTION. MECHANICAL CHARACTERISTICS:

SPRING FORCE
 PRELOAD 2.45±0.35 LbF [10.9±1.6 N]
 FORCE AT .052 [1.32] DEFLECTION
 3.82±0.50 LbF [17.0±2.2 N]
 MINIMUM DEFLECTION
 .078 [2.0]
CABLE TERMINATION GUARANTEED
 10.0 LbF [44.5 N] PULL FORCE.

2. MATERIALS AND FINISHES:

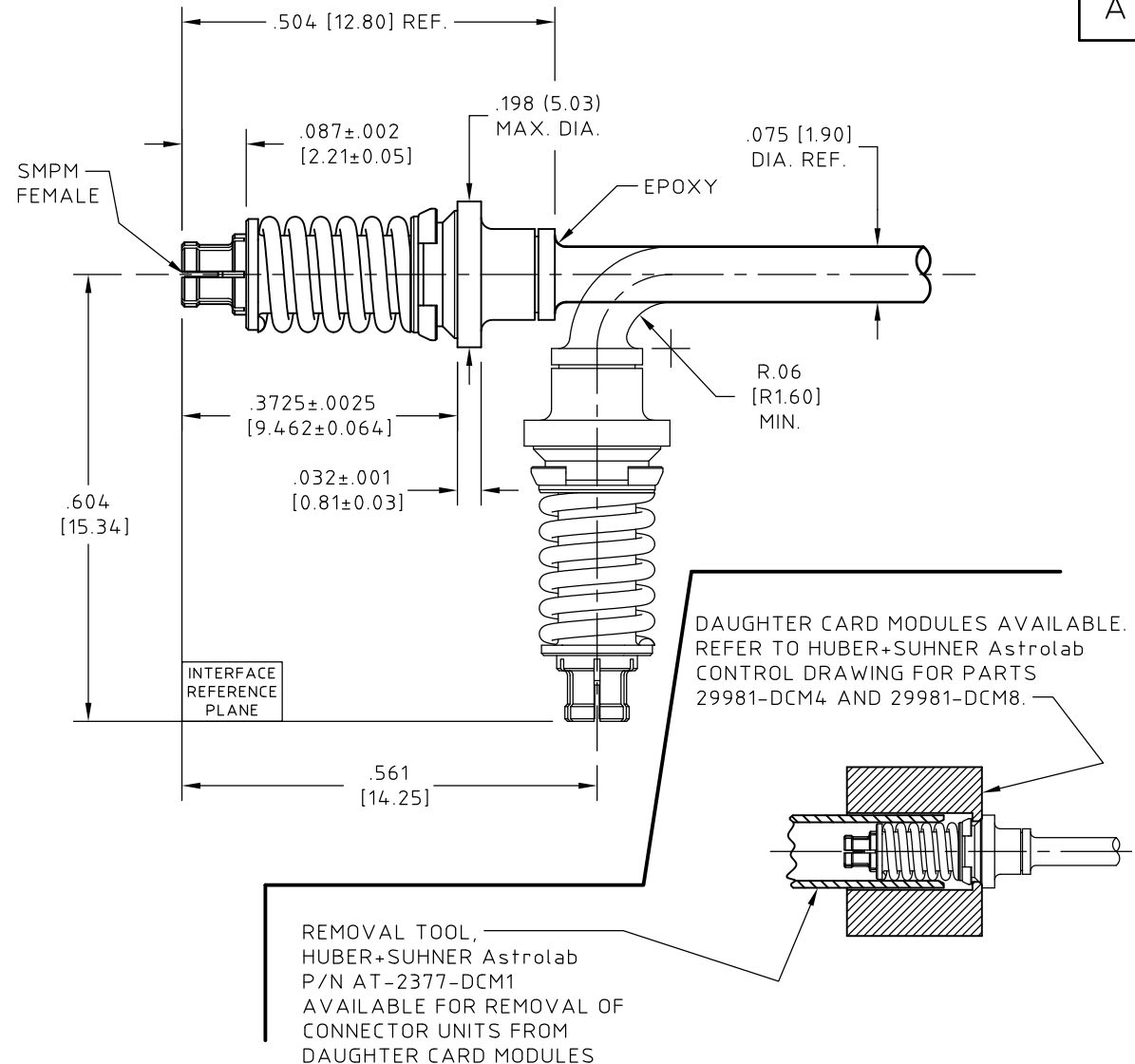
SMPM BODY, CENTER CONTACT AND RETAINING RING, BERYLLIUM COPPER ALLOY PER ASTM B-196, UNS No. C17300, TEMPER TD04(H), GOLD PLATED 50 µIN (1.27 µM) MIN. THK. PER ASTM B-488, CODE C, TYPE II, CLASS 1.27 OVER
 NICKEL PLATE, 50 µIN (1.27 µM) MIN. THK. PER SAE-AMS-QQ-N-290, CLASS 1.
CABLE ENTRY AND BACK NUT
 STEEL, CORROSION RESISTANT PER ASTM A-582, UNS No. S30300, COND. A, NON MAGNETIC, PASSIVATED PER SAE-AMS-2700. NO DICHROMATE SOLUTIONS USED.
 BACK NUT IS NICKEL ALLOY PLATED.
SPRING
 STEEL, CORROSION RESISTANT PER ASTM A-313, UNS No. S30200. PASSIVATED PER SAE-AMS-2700 OR MUSIC WIRE PER ASTM A 228, NICKEL PLATED PER SAE-AMS QQ-N-290
DIELECTRIC,
 POLYTETRAFLUOROETHYLENE (PTFE) PER ASTM D-1710 OR ASTM D-4894.
EPOXY,
 TWO-COMPONENT HIGH TEMPERATURE EPOXY SYSTEM.

3. ELECTRICAL CHARACTERISTICS:

IMPEDANCE 50.0 OHMS NOMINAL
 FREQUENCY 65.0 GHz MAX.

4. INTERFACE MEETS MIL-STD-348.

5. OPERATING TEMPERATURE RANGE
 -55° C TO +125° C.



| | | |
|-----------|----------|---|
| NAME | DATE | <p>HUBER+SUHNER Astrolab</p> <p>THIS DRAWING CONTAINS PATENTABLE AND PROPRIETARY INFORMATION. THE DESIGN CANNOT BE USED WITHOUT WRITTEN PERMISSION OF HUBER + SUHNER ASTROLAB.</p> |
| PREP. GSG | 03/12/15 | |
| ELEC. | | |
| MECH. | | |
| Q.C. | | |

UNLESS OTHERWISE SPECIFIED
 CONCENTRICITY .004 T.I.R.
 CORNERS AND FILLETS .005
 MAX. RADIUS OR CHAMFER.
 SURFACE FINISH 63 RMS
 MICROINCHES OR BETTER.

| | |
|----------------------|--------|
| FRACTIONS | ± 1/16 |
| X | ± .030 |
| XX | ± .015 |
| XXX | ± .005 |
| ANGLES | ± 1° |
| DO NOT SCALE DRAWING | |

TITLE
CONNECTOR, SMPM FEMALE, VITA 67, microbend TYPE, RUGGEDIZED

| | | | | | | | | | |
|------|---------------|----------|-----|----------|---|--------------|----------------------|----------------------------|----------|
| A | ECN No. 17031 | 04/15/15 | GSG | | THDS. TO BE IN ACCORD WITH U.S. DEPT. OF COMM. SCREW THD. STDS. FOR FEDERAL SERVICES 1950 SUPL. TO HANDBOOK H 28. | SCALE 4:1 | CODE IDENT. 16301 | DWG NO. 29981SVCR-32-41 | REV A |
| REV. | DESCRIPTION | DATE | BY | APPROVED | | | | | |