

RoHS 6 COMPLIANT

CONTROL DRAWING

14\_SMP-50-2-x2/119\_NE

| DETENT         | P/N                   | SAP #    |
|----------------|-----------------------|----------|
| LIMITED DETENT | 14_SMP-50-2-L2/119_NE | 80377974 |
| SMOOTH BORE    | 14_SMP-50-2-S2/119_NE | 80377975 |

NOTES:

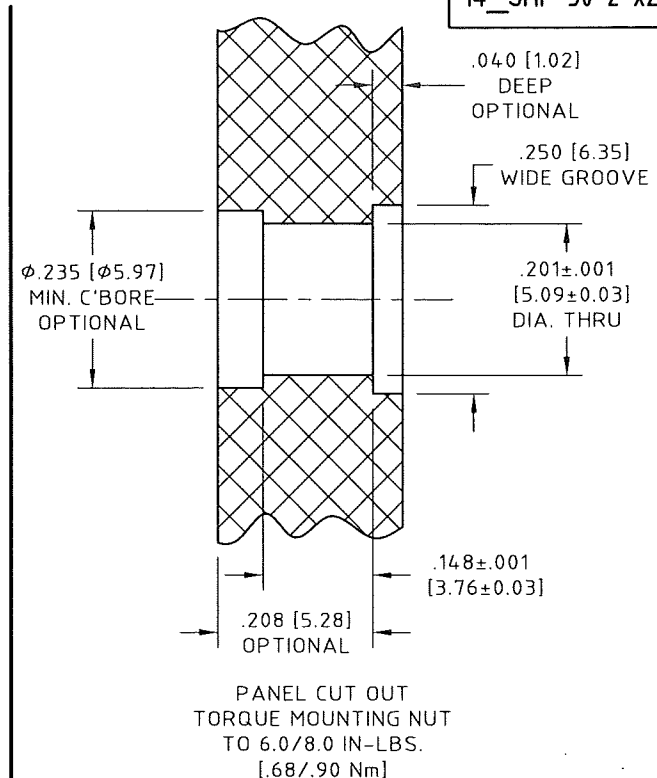
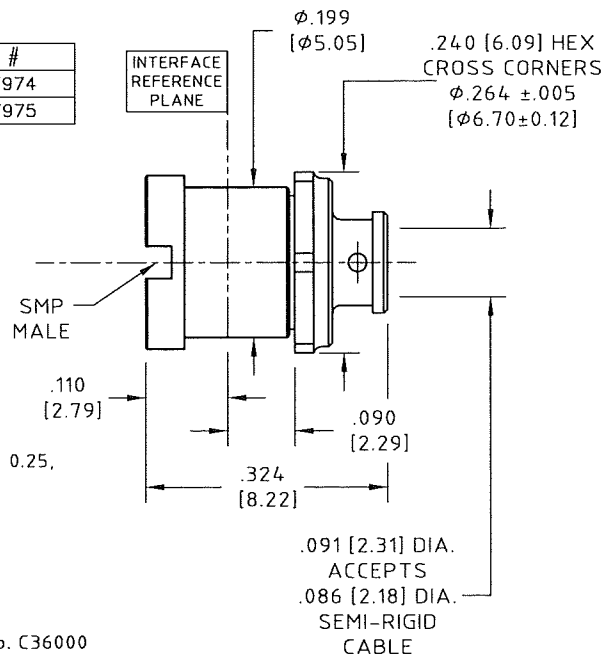
- DESCRIPTION  
CONNECTOR, SMP MALE FOR  
Ø.086 [Ø2.18] SEMI-RIGID CABLE.
- MATERIALS AND FINISHES  
CENTER CONDUCTOR,  
BERYLLIUM COPPER ALLOY PER ASTM B-196,  
UNS No. C17300, TEMPER TD04(H),  
GOLD PLATED 4 µIN. [0.1 µM] MIN. THK.  
PER ASTM B-488, CODE C, TYPE I, CLASS 0.25,  
OVER  
NICKEL PLATE, 80 µIN. [2.0 µM] MIN. THK.  
PER ASTM B-733, TYPE V, CLASS 3,  
OVER  
COPPER FLASH, 4 µIN. [0.1 µM] MIN. THK.  
PER SAE-AMS-2418.  
BODY, AND NUT,  
BRASS, FREE CUTTING, PER ASTM B-16 UNS No. C36000  
UNS No. C17300, TEMPER TD04(H),  
GOLD PLATED 4 µIN. [0.1 µM] MIN. THK.  
PER ASTM B-488, CODE C, TYPE I, CLASS 0.25,  
OVER  
NICKEL PLATE, 80 µIN. [2.0 µM] MIN. THK.  
PER ASTM B-733, TYPE V, CLASS 3,  
OVER  
COPPER FLASH, 4 µIN. [0.1 µM] MIN. THK.  
PER SAE-AMS-2418.  
DIELECTRIC,  
POLYTETRAFLUOROETHYLENE (PTFE) PER ASTM D-1710,  
OR ASTM D-4894, TYPE I, GRADE 1.

- ELECTRICAL CHARACTERISTICS:  
IMPEDANCE  
50.0 Ohms NOMINAL.  
FREQUENCY  
40.0 GHz MAX.

- CONNECTOR MEETS MIL-STD-348 AND  
DSCC SPECIFICATION 94008.

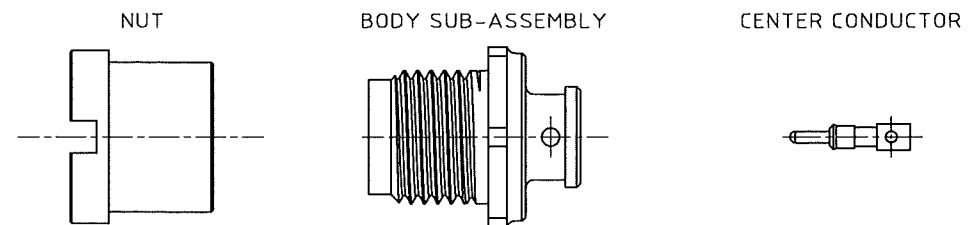
- OPERATING TEMPERATURE RANGE  
-55° C TO +125° C

- ATTACHMENT METHOD,  
CENTER CONDUCTOR,  
SOLDERED  
OUTER CONDUCTOR,  
SOLDERED.



A

SMP CONNECTOR AS SUPPLIED

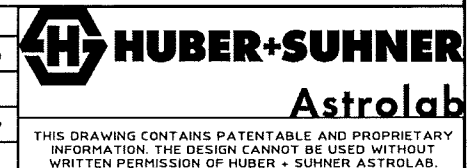


| METRIC TOLERANCE |         |           |          |
|------------------|---------|-----------|----------|
| DIMENSION        |         | TOLERANCE |          |
| INCHES           | MM      | INCHES    | MM       |
| .X               | [X.]    | ±.015     | [±0.5]   |
| .XX              | [X.X]   | ±.010     | [±0.3]   |
| .XXX             | [X.XX]  | ±.002     | [±0.05]  |
| .XXXX            | [X.XXX] | ±.0005    | [±0.013] |

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 |        |

| NAME            | DATE     |
|-----------------|----------|
| PREP. SO ENG 07 | 02/16/16 |
| ELEC.           |          |
| MECH.           | 02/16/16 |
| Q.C.            |          |



TITLE  
CONNECTOR, SMP MALE TO H+S ASTROLAB 38000 & .086 DIA. CABLE

| REV. | DESCRIPTION   | DATE     | BY  | APPROVED | THDS. TO BE IN ACCORD WITH U.S. DEPT. OF COMM. SCREW THD. STDS. FOR FEDERAL SERVICES 1950 SUPPL. TO HANDBOOK H 28. | SCALE | CODE IDENT. | DWG NO.               | REV |
|------|---------------|----------|-----|----------|--------------------------------------------------------------------------------------------------------------------|-------|-------------|-----------------------|-----|
| A    | ECN No. 17879 | 02/16/16 | SO7 |          |                                                                                                                    | 4:1   | 16301       | 14_SMP-50-2-x2/119_NE | A   |