**CONTROL DRAWING**

**MARKING SEE NOTES**

**NOTES:**

1. **DESCRIPTION.**
   - Cable assembly, low outgassing SSMA plug to SSMA plug.
   - Assembly meets or exceeds NASA low outgassing requirements.

2. **CABLE.**
   - Coaxial cable Huber-Suhner Astrolab P/N 32081 meets or exceeds MIL-DTL-17.
   - See Huber-Suhner Astrolab control drawing for materials and finishes.

3. **CONNECTOR A-, SSMA PLUG.**
   - Huber-Suhner Astrolab P/N 29110C-32-81.
   - Interface dimensions are MIL-STD-348.
   - See Huber-Suhner Astrolab control drawing for materials and finishes.

4. **CONNECTOR B-, SSMA PLUG.**
   - Same as Connector A-.

5. **MARKING.**
   - Marking approximately centered, directly on cable as follows:
     - MINIBEND A-xx YYYWW
   - Where xx denotes the length of the cable assembly and YYYWW the date code for date of manufacture.
   - No marking on cable assemblies shorter than 3.00 [76.2].
   - Marking on packaging only.

6. **ELECTRICAL CHARACTERISTICS.**
   - Impedance: 50.0 Ohms Nominal.
   - Frequency, insertion loss and VSWR see chart.

7. **MECHANICAL.**
   - Operating temperature range: -55°C to +125°C.
   - Pull strength to 15.0 lbs. [66.7 N].

8. **ATTENUATION FORMULAS.**
   - 8A. Calculate at 18.0 GHz:
     - \( |dB| = 1.16 \text{ db/ft.} \times \text{Lift} + 38 \text{ dB} \)
   - 8B. Calculate at 26.5 GHz:
     - \( |dB| = 1.46 \text{ db/ft.} \times \text{Lift} + 53 \text{ dB} \)

**ROHS 5/6 COMPLIANT**

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**HUBER-SUHNER Astrolab**

**NOTES CONTINUED:**

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**PREP.:** GSG  
**ELEC.:** RF  
**MECH.:** DPD  
**O.C.:**

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**DRAWING: MINIBEND A-XX**

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**SCALE**

**CODE IDENT.**

**DWG NO.**

**REV.**

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**THE DRAWING CONTAINS PATENTABLE AND PROPRIETARY INFORMATION. THE DESIGN CANNOT BE USED WITHOUT WRITTEN PERMISSION OF HUBER + SUHNER ASTROLAB.**

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**CABLE ASSEMBLY, SSMA PLUG TO SSMA PLUG**

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**UNLESS OTHERWISE SPECIFIED CONCENTRICITY .002 IN. CORNERS AND PILFETS .005 MAX. RADIUS OR CHAMFER. SURFACE FINISH .003 RMS MICROINCHES OR BETTER.**