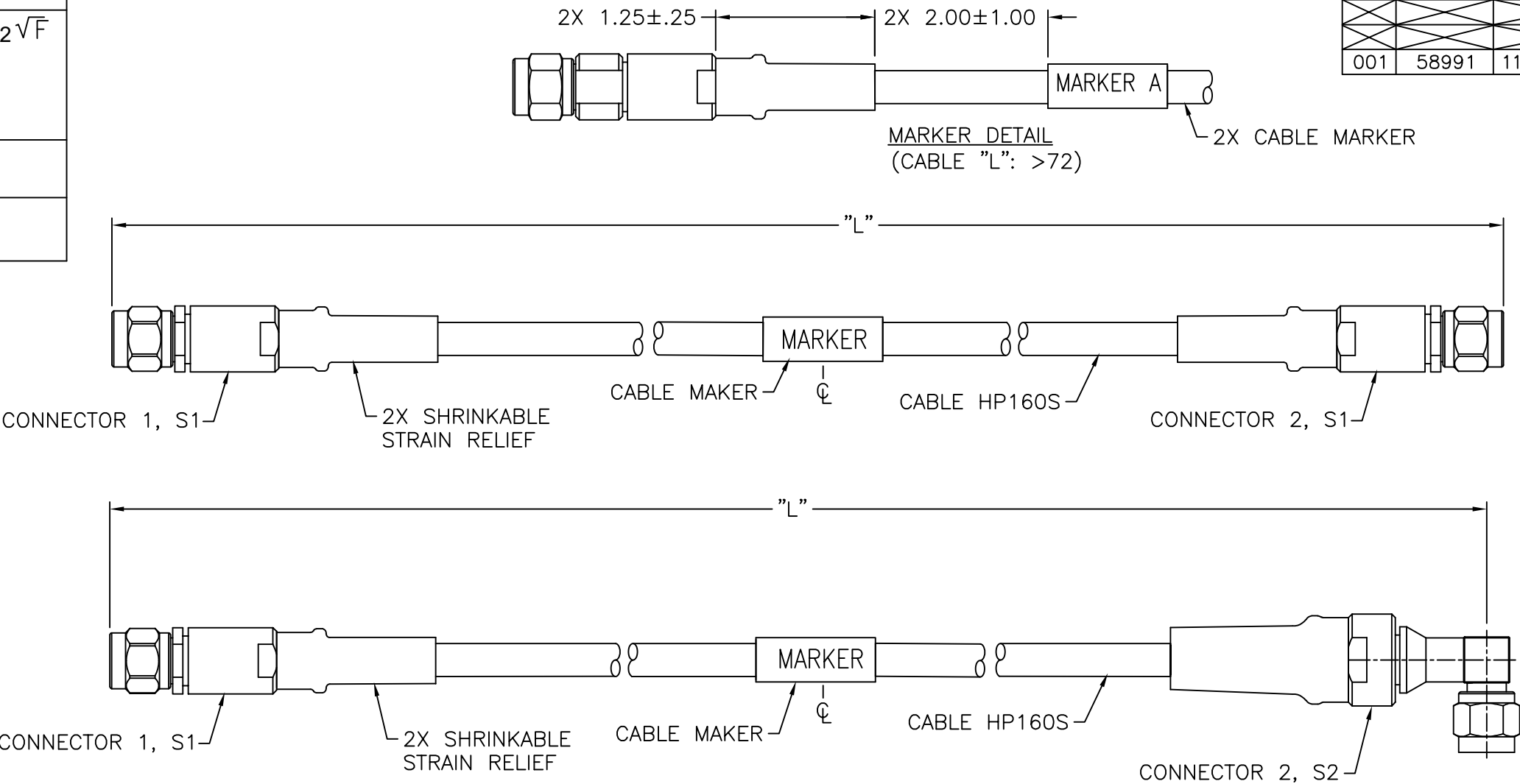


|                              |                                                                                                                                                         |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| VSWR                         | SEE VSWR CHARTS                                                                                                                                         |
| INSERTION LOSS (IL) MAX (dB) | $IL = L(11.72\sqrt{F} + .38F)/1200 + C_1\sqrt{F} + C_2\sqrt{F}$<br>L = MAX ASSEMBLY LENGTH (INCHES)<br>F = FREQUENCY (GHz)<br>C = CONNECTOR LOSS FACTOR |
| BEND RADIUS                  | .9 MIN                                                                                                                                                  |
| MARKER A                     | SEMFLEX 60637<br>XXXX-16SQC-XXXX #### YYWW                                                                                                              |

|     |       |            |
|-----|-------|------------|
| REV | ECO   | DATE       |
| 001 | 58991 | 11/18/2024 |



NOTES: UNLESS OTHERWISE SPECIFIED.

- WORKMANSHIP: CLASS 3 PER IPC/WHMA-A-620.
- OUTGASSING: TML<1%, CVCM<0.10% PER ASTM E595  
2.1 TML= TOTAL MASS LOSS  
2.2 CVCM= COLLECTED VOLATILE CONDENSED MATERIAL
- SOLDER: Sn63/Pb37
- 100% MEASUREMENT: VSWR & I.L. PLOTS SHALL BE SUPPLIED WITH EACH CABLE ASSEMBLY.
- MARKER(S):  
5.1 MARKER(S) 2 REQUIRED IF LENGTH IS OVER 72 INCHES, POSITION MARKERS PER DETAIL.  
5.2 MARKER LENGTH BASED ON TEXT.  
5.3 #### YYWW  
YEAR/WEEK DATE CODE  
SERIAL NUMBER

| MAX VSWR FOR SMA CABLE ASSEMBLIES |          |             |
|-----------------------------------|----------|-------------|
| CONFIGURATION                     | STRAIGHT | RIGHT ANGLE |
| STRAIGHT                          | 1.25:1   | 1.30:1      |
| RIGHT ANGLE                       | 1.30:1   | 1.35:1      |

| MAX VSWR FOR 2.92MM CABLE ASSEMBLIES |          |             |
|--------------------------------------|----------|-------------|
| CONFIGURATION                        | STRAIGHT | RIGHT ANGLE |
| STRAIGHT                             | 1.40:1   | 1.45:1      |
| RIGHT ANGLE                          | 1.45:1   | 1.50:1      |

6. EXAMPLE OF COMPLETE MODEL NUMBER:  
S1S2-16SQC-0036 = STR SMA MALE TO RA  
SMA MALE, HP160S CABLE, 36"-0.00/+1.50 LENGTH

6.1 MODEL NUMBER CODE:  
XXXX-16SQC-XXXX

LENGTH ( MIN = 0006)  
SPACE QUALIFIED CABLE  
CABLE HP160S  
CONNECTOR 2 CONFIG CODE  
CONNECTOR 1 CONFIG CODE

| "L" TOLERANCE TABLE |            |
|---------------------|------------|
| 6.00<120.00         | -.00/+1.50 |
| 120.00<180.00       | -.00/+1.00 |
| 180.00<480.00       | -.00/+4.00 |
| OVER 480.00         | -0.5%/+1%  |

CONNECTOR 1  
CONNECTOR SELECTION ORDER  
CONNECTOR 2

| CONNECTOR TYPES |                             |                 |                     |
|-----------------|-----------------------------|-----------------|---------------------|
| CONFIG CODE     | DESCRIPTION                 | LOSS FACTOR, Cx | MAX FREQUENCY (GHz) |
| S1              | SMA MALE STRAIGHT           | 0.03            | 26                  |
| S2              | SMA MALE LOW RIGHT ANGLE    | 0.05            | 26                  |
| X1              | 2.92MM MALE STRAIGHT        | 0.03            | 40                  |
| X2              | 2.92MM MALE LOW RIGHT ANGLE | 0.05            | 40                  |



|                      |                 |
|----------------------|-----------------|
| Model No.            | XXXX-16SQC-XXXX |
| Code Code            | 60637           |
| 3RD ANGLE PROJECTION | YES             |
| Engineer:            | P. KLYVE        |
| Date:                | 3/7/2024        |

|                                                       |                |
|-------------------------------------------------------|----------------|
| SEMFLEX                                               |                |
| Title: CABLE ASSY, SPACE QUALIFIED HPI160S CONFIGURED |                |
| Drawing No.                                           | C_SQC160S-XXXX |
| Rev.                                                  | 001            |
| DO NOT SCALE DRAWING                                  | SEE NOTES      |
| 1 OF 1                                                |                |