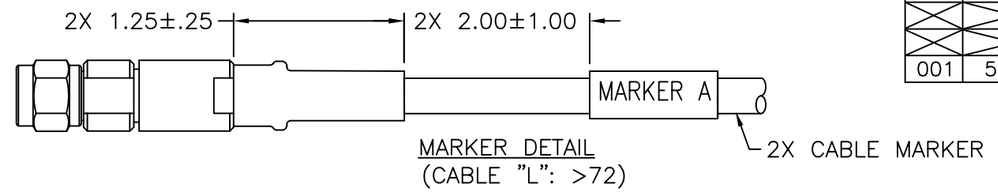
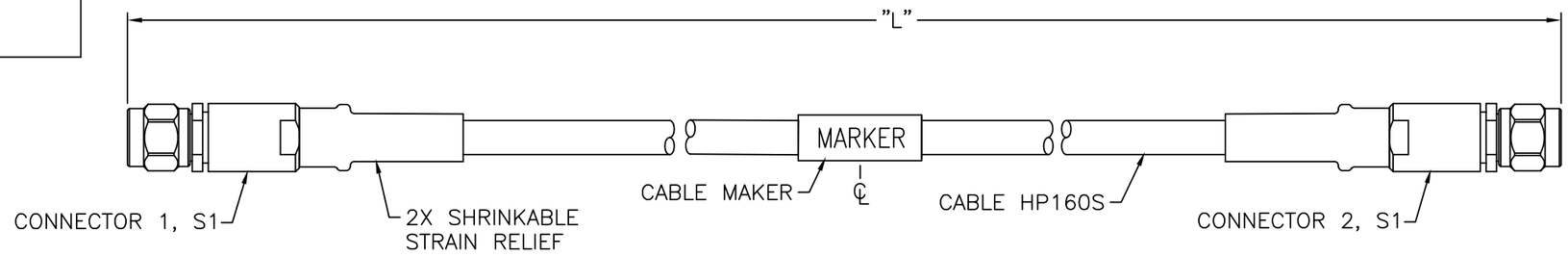
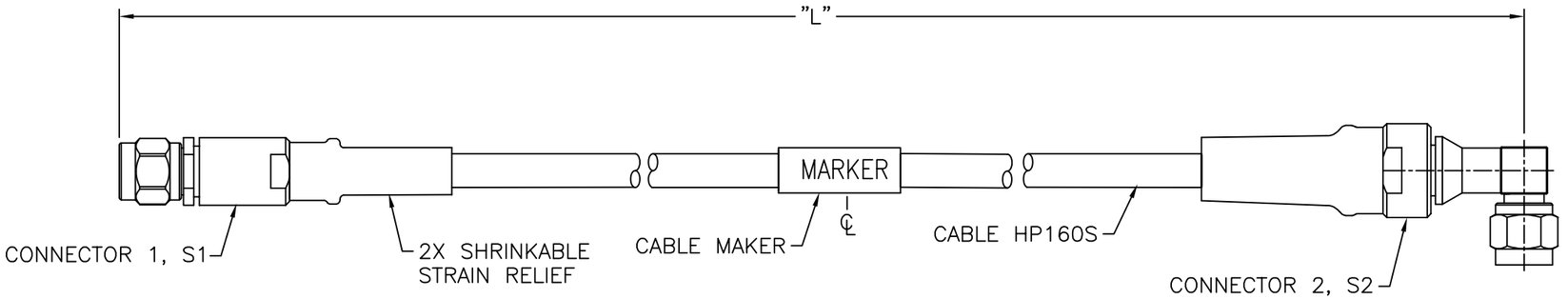
VSWR	SEE VSWR CHARTS
INSERTION LOSS (IL) MAX (dB)	IL = $L(11.72\sqrt{F} + .38F)/1200 + C_1\sqrt{F} + C_2\sqrt{F}$ L = MAX ASSEMBLY LENGTH (INCHES) F = FREQUENCY (GHz) C = CONNECTOR LOSS FACTOR
BEND RADIUS	.9 MIN
MARKER A	SEMFLEX 60637 XXXX-16SQC-XXXX #### YYWW

REV	ECO	DATE
001	58991	11/18/2024







NOTES: UNLESS OTHERWISE SPECIFIED.

1. WORKMANSHIP: CLASS 3 PER IPC/WHMA-A-620.

2. OUTGASSING: TML<1%, CVCM<0.10% PER ASTM E595
   2.1 TML= TOTAL MASS LOSS
   2.2 CVCM= COLLECTED VOLATILE CONDENSED MATERIAL

3. SOLDER: Sn63/Pb37

4. 100% MEASUREMENT: VSWR & I.L. PLOTS SHALL BE SUPPLIED WITH EACH CABLE ASSEMBLY.

5. 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
   - #### — SERIAL NUMBER
   - YYWW — YEAR/WEEK DATE CODE

6. EXAMPLE OF COMPLETE MODEL NUMBER:
   S1S2-16SQC-0036 = STR SMA MALE TO RA SMA MALE, HP160S CABLE, 36"-.00/+.50 LENGTH
   6.1 MODEL NUMBER CODE:
   XXXX-16SQC-XXXX
   - XXXX — CONNECTOR 1 CONFIG CODE
   - XXXX — CONNECTOR 2 CONFIG CODE
   - 16SQC — CABLE HP160S
   - XXXX — SPACE QUALIFIED CABLE
   - XXXX — LENGTH (MIN = 0006)

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

"L" TOLERANCE TABLE	
6.00<120.00	-.00/+.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

cinch CONNECTIVITY SOLUTIONS a bel group

NOTICE: The information in this drawing is PROPRIETARY and must not be used without the permission of Cinch Connectivity Solutions. It may contain data whose export is restricted. Verify status prior to exporting.

INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.5-2018

Model No.: XXXX-16SQC-XXXX

RoHS

UNLESS OTHERWISE SPECIFIED UNITS: INCH
.XX± .02
.XXX± .005
ANGLES± 2°

Cage Code: 60637

3RD ANGLE PROJECTION

Engineer: P. KLYVE

Date: 3/7/2024

SEMFLEX

Title: CABLE ASSY, SPACE QUALIFIED HPI160S CONFIGURED

Drawing No.: C_SQC160S-XXXX

Rev.: 001

SIZE B | DO NOT SCALE DRAWING | Workmanship Std: SEE NOTES | SHEET 1 OF 1

Please read our datasheet & drawing disclaimer here.