

VSWR

SEE VSWR CHARTS

INSERTION LOSS (IL) MAX (dB)

$IL = L(7.45\sqrt{F} + .35F)/1200 + C_1\sqrt{F} + C_2\sqrt{F}$
L = MAX ASSEMBLY LENGTH (INCHES)
F = FREQUENCY (GHz)
C = CONNECTOR LOSS FACTOR

BEND RADIUS

1.1 MIN

MARKER A

SEMFLEX 60637
XXXX-19SQC-XXXX #### YYWW

2X 1.25±.25

2X 2.00±1.00

MARKER A

2X CABLE MARKER

MARKER DETAIL
(CABLE "L": >72)

CONNECTOR 1, S1

2X SHRINKABLE STRAIN RELIEF

CABLE MAKER

CABLE HP190S

CONNECTOR 2, S1

CONNECTOR 1, S1

2X SHRINKABLE STRAIN RELIEF

CABLE MAKER

CABLE HP190S

CONNECTOR 2, S2

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
YEAR/WEEK DATE CODE
SERIAL NUMBER

6. EXAMPLE OF COMPLETE MODEL NUMBER:
S1S2-19SQC-0036 = STR SMA MALE TO RA
SMA MALE, HP190S CABLE, 36"- .00/+ .50 LENGTH
6.1 MODEL NUMBER CODE:
XXXX-19SQC-XXXX
LENGTH (MIN = 0006)
SPACE QUALIFIED CABLE
CABLE HP190S
CONNECTOR 2 CONFIG CODE
CONNECTOR 1 CONFIG CODE

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

"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

cinch

CONNECTIVITY SOLUTIONS

a bel group

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INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.5-2018

Model No.

XXXX-19SQC-XXXX

Cage Code

60637

3RD ANGLE PROJECTION

Engineer:

P. KLYVE

Date:

2/13/2023

SEMIFLEX

Title:

CABLE ASSY, SPACE QUALIFIED HPI190S CONFIGURED

Drawing No.

C_SQC190S-XXXX

Rev.

001

SIZE

B

DO NOT SCALE DRAWING

Workmanship Std.

SEE NOTES

SHEET

1 OF 1