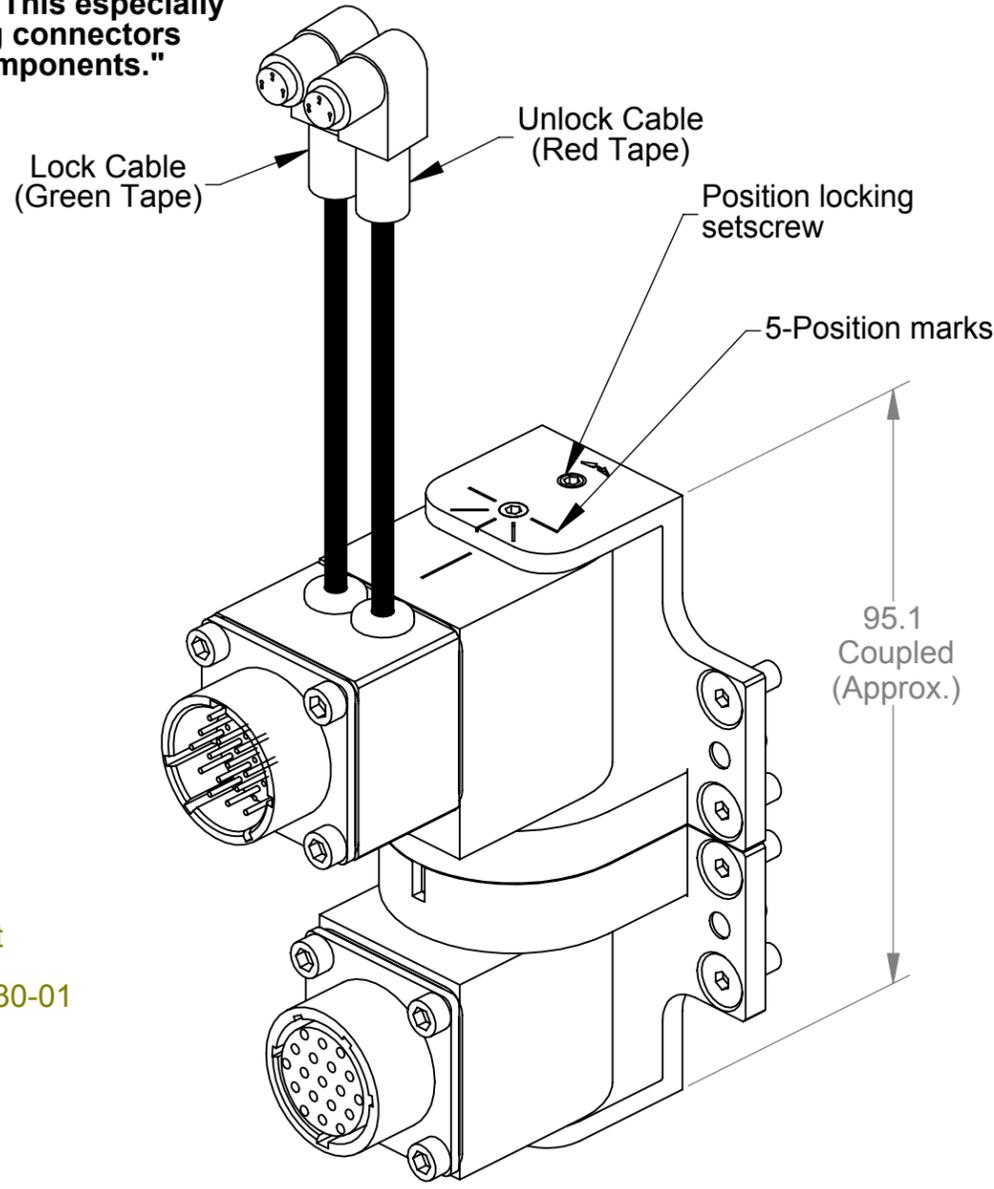
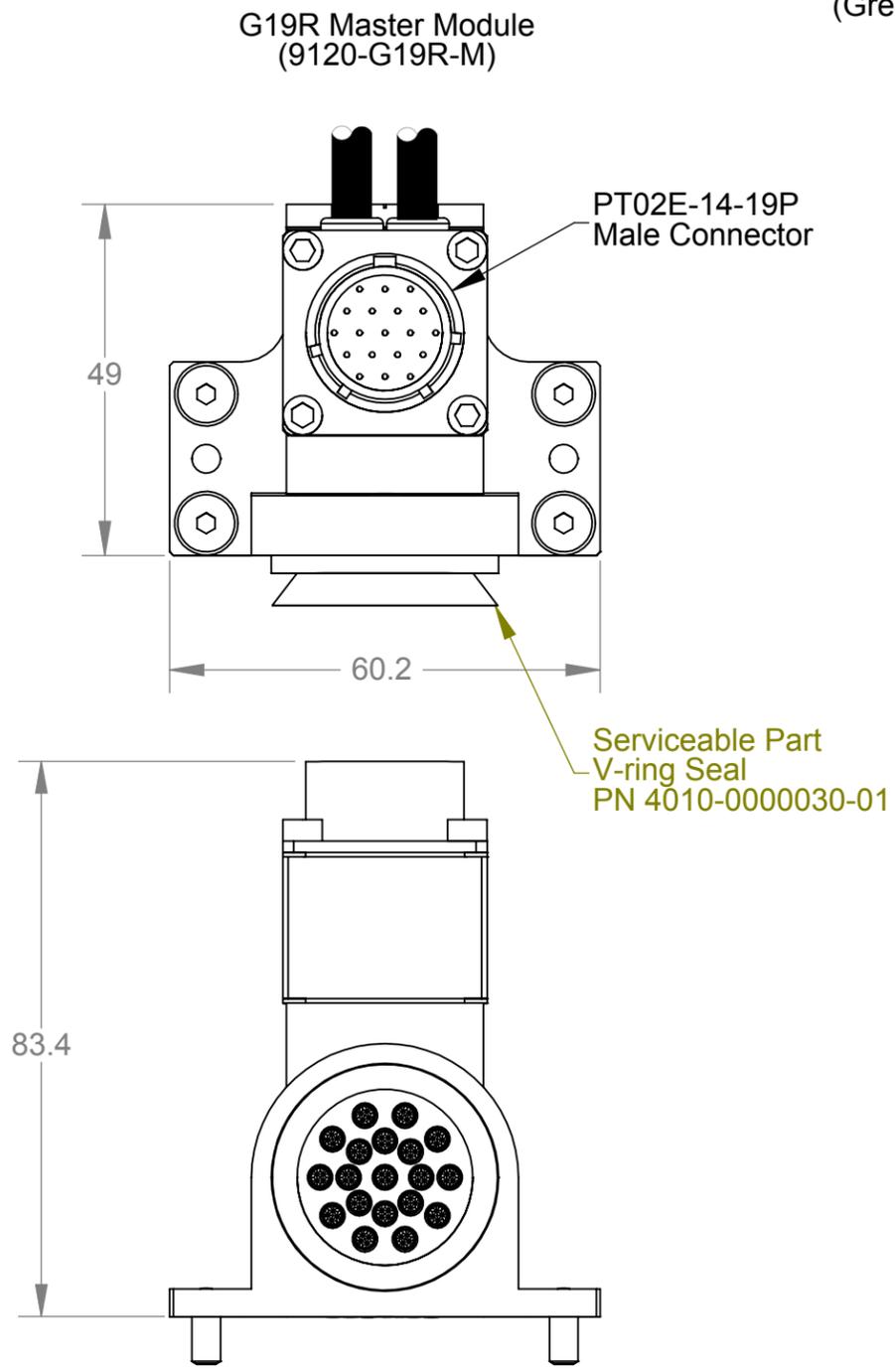
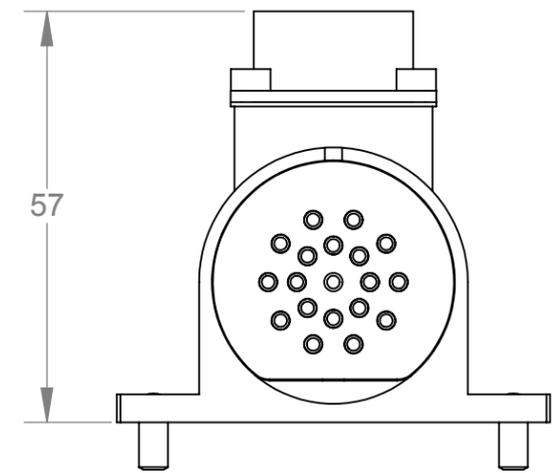
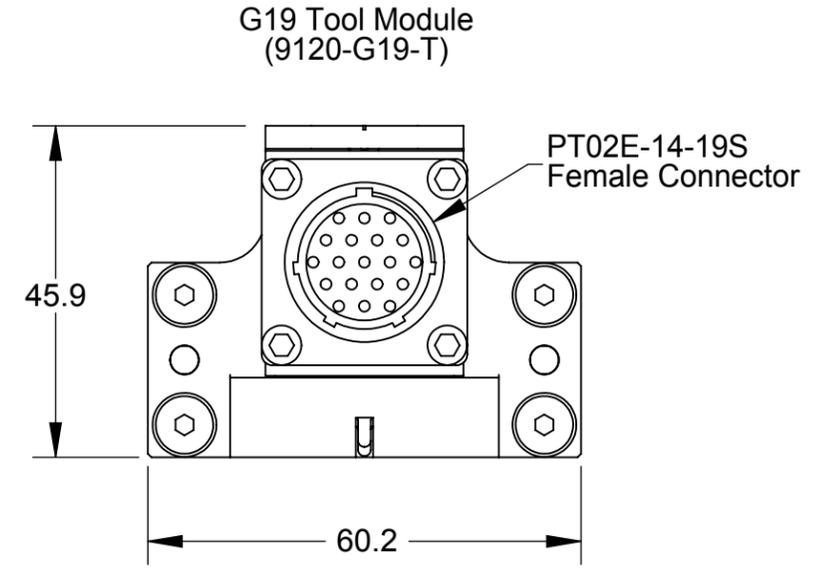


**"DANGER! - For electrical modules using > 60VDC or 42 VAC, NO contact should be attempted before removing power. This especially includes separation or insertion of the mating connectors or any contact with the tool changer or its components."**

| Rev. | Description   | Initiator | Date      |
|------|---------------|-----------|-----------|
| 01   | Initial Issue | DSS       | 3/18/2010 |



Isometric View Center Position



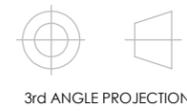
NOTES: UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING. DRAWN IN SOLIDWORKS.  
ALL DIMENSIONS ARE IN MILLIMETERS.



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- Notes:
1. The master module and the tool module have 5-position options which can be adjusted as required.
  2. Warning: The modules must be adjusted and secured into position prior to operation, otherwise internal damage to conductors may occur.



|                              |                                    |         |              |
|------------------------------|------------------------------------|---------|--------------|
| DRAWN BY: D. Swanson 3/18/10 | TITLE: G19R-M with G19-T           |         |              |
| CHECKED BY: DKL/DTM 3/19/10  | SCALE: 1:1                         | SIZE: B | REVISION: 01 |
| WEIGHT LBS:                  | DRAWING NUMBER: 9630-20-G19RM G19T |         | DATE:        |
| ASSEMBLY REF:                | PRODUCT RELEASE #                  | DATE:   | SHEET 1 OF 2 |

| Rev. | Description | Initiator | Date |
|------|-------------|-----------|------|
| -    | See Sheet1  | -         | -    |

# G19R Master to G19 Tool

G19R Master  
PT02E-14-19P  
Male Connector

GF19 Tool  
PT02E-14-19S  
Female Connector

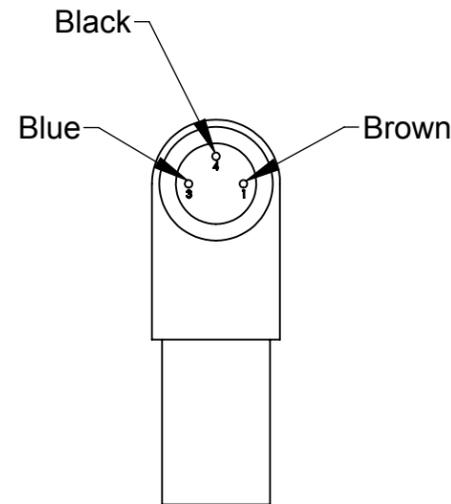
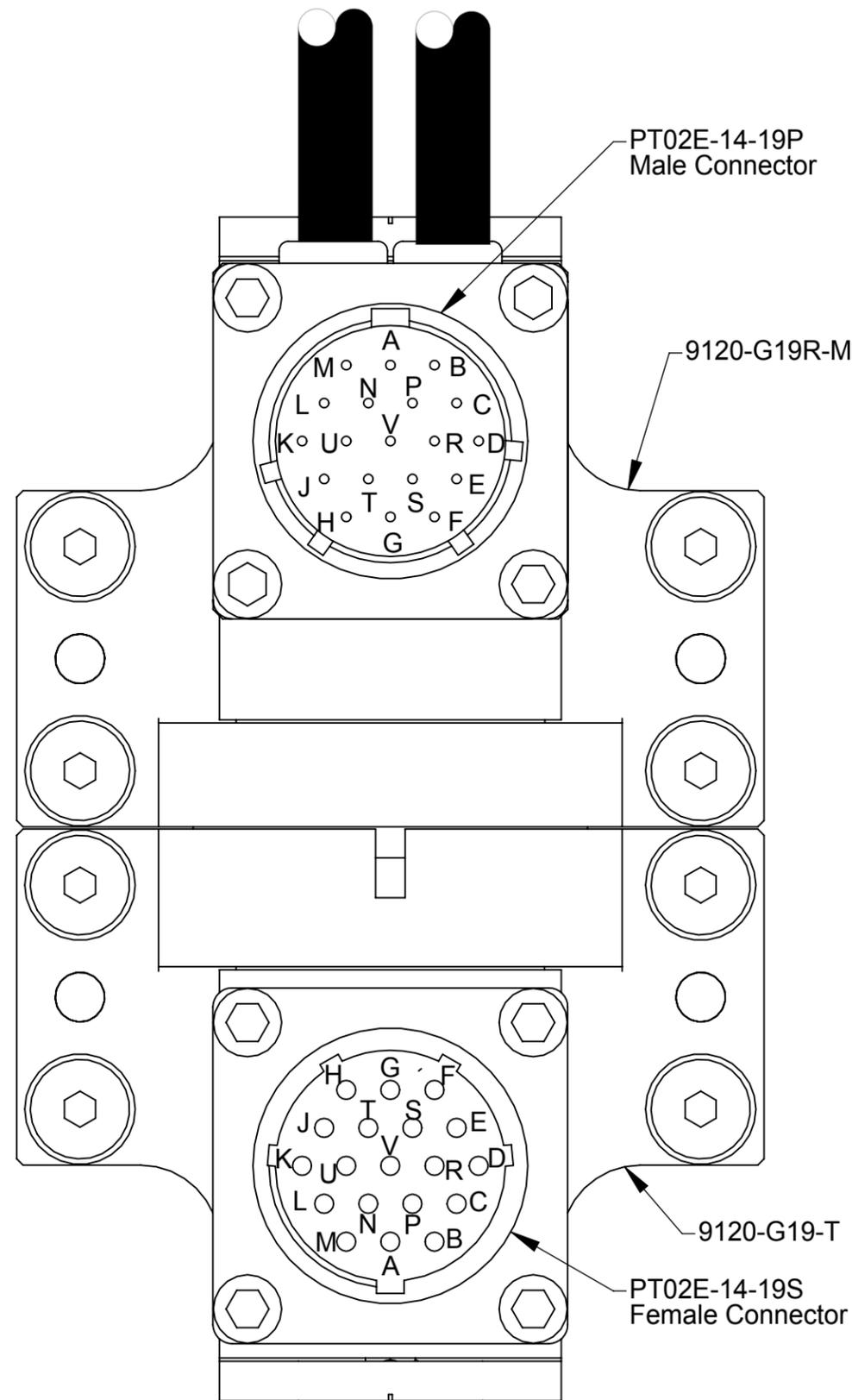
Lock/Unlock Cables

Unlock Signal (Black)  
10-30 VDC (2-Brown)

0 VDC (2-Blue)

Lock (Black)

|         |         |              |
|---------|---------|--------------|
| A ----- | >>----- | A            |
| B ----- | >>----- | B            |
| C ----- |         | C No Connect |
| D ----- |         | D No Connect |
| E ----- | >>----- | E            |
| F ----- | >>----- | F            |
| G ----- | >>----- | G            |
| H ----- |         | H No Connect |
| J ----- | >>----- | J            |
| K ----- |         | K No Connect |
| L ----- | >>----- | L            |
| M ----- | >>----- | M            |
| N ----- | >>----- | N            |
| P ----- | >>----- | P            |
| R ----- | >>----- | R            |
| S ----- | >>----- | S            |
| T ----- | >>----- | T            |
| U ----- | >>----- | U            |
| V ----- | >>----- | V            |



Lock/Unlock Cable  
Connector  
Face View  
(Typical)

**Notes:**

1. Pin "v" is first to mate last to break at the tool changer interface. This pin is recommended for use as a ground.
2. Customer must supply 10-30 VDC on Master Pin "D", 0VDC on Pin "H".
3. Lock/Unlock signals will be returned on master connector pin "K" & "C" respectively.

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|                              |  |                                      |                |
|------------------------------|--|--------------------------------------|----------------|
| DRAWN BY: D. Swanson 3/18/10 |  | TITLE<br>G19R-M with G19-T           |                |
| CHECKED BY: DKL/DTM 3/19/10  |  | SCALE<br>2:1                         | SIZE<br>B      |
| WEIGHT LBS:                  |  | DRAWING NUMBER<br>9630-20-G19RM G19T |                |
| ASSEMBLY REF:                |  | PRODUCT RELEASE #                    | REVISION<br>01 |
|                              |  | DATE:                                | SHEET 2 OF 2   |