

## NOTES:

### Electrical characteristics:

Characteristic impedance: 50Ω  
 Frequency range: 0...3GHz  
 VSWR: at 500 MHz :  $\leq 1.22$   
 Insulation resistance:  $10^7$  MΩ  
 Test voltage: 750 V rms  
 Max. contact current: 2A

### Contact resistance

inner conductor:  $\leq 2.7$ mΩ  
 outer conductor:  $\leq 2.7$ mΩ

### Mechanical characteristics:

#### Contact forces:

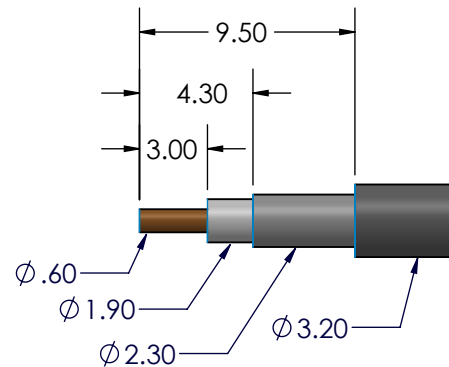
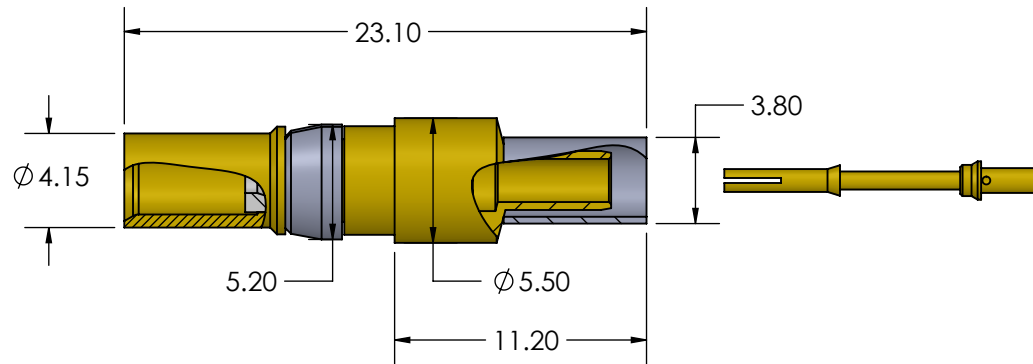
Mating force: max. 10N  
 Unmating force: Inner conductor : min. .2N  
 Outer conductor: min. .7N

### Environmental:

Temperature range:  $-55^{\circ}\text{C} \pm 125^{\circ}\text{C}$

### Materials:

Outer conductor: Cu Alloy  
 Inner conductor: Cu Alloy  
 Retaining Clip: Cu Alloy  
 Insulators: PTFE / PBT / PI  
 Plating: Gold



## CABLE DIMENSIONS

THIS DRAWING IS SUBJECT TO CHANGE WITHOUT NOTICE

### DIMENSIONS:

mm

### UNLESS OTHERWISE SPECIFIED:

TOLERANCE: .0  $\pm .100$   
 .00  $\pm .050$   
 .000  $\pm .030$

THIS DRAWING AND SPECIFICATIONS HEREIN, ARE THE PROPERTY OF ECS, AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN CONSENT OF ECS.

| REV.                                                   | DATE | CHK | DESCRIPTION                                                           |
|--------------------------------------------------------|------|-----|-----------------------------------------------------------------------|
|                                                        |      |     |                                                                       |
|                                                        |      |     |                                                                       |
|                                                        |      |     |                                                                       |
| <b>ECS</b>                                             |      |     | Email: <a href="mailto:custsvc@ecscconn.com">custsvc@ecscconn.com</a> |
| <a href="http://www.ecscconn.com">www.ecscconn.com</a> |      |     | Orange County, California                                             |

|                    |                                                 |                                                                        |
|--------------------|-------------------------------------------------|------------------------------------------------------------------------|
| DRAWN BY:<br>AA    | DATE<br>10.16.03                                | DESCRIPTION<br>50 OHM PLUG, COAX CONTACT<br>STRAIGHT CABLE TERMINATION |
| CHECKED BY:<br>BR  | DATE<br>10.16.03                                |                                                                        |
| APPROVED BY:<br>BR | DATE<br>10.16.03                                |                                                                        |
| SIZE<br>A          | DWG / PART NUMBER<br>55-2P-110-1                | REV.<br>A                                                              |
| SCALE<br>NONE      | PATH<br>\\ECS\ENGINEERING PRINTS\5500 CONTACTS\ | SHEET<br>1 OF 1                                                        |