CLAIMS

1. A unitary electrical conduit, comprising:

a central conductor comprising a first bendable tube with a central opening formed by the inside diameter of the central conductor;

a socket coupled to a first end of the central conductor, wherein the socket includes a threaded connection;

a male insert coupled to a second end of the central conductor;

a dielectric sheath surrounding the central conductor; and

an outer conductor comprising a second bendable tube surrounding the first bendable tube and the dielectric sheath, wherein a substantially 90 degree bend is formed along a length thereof.

2. The unitary electrical conduit of claim 1, wherein the second end comprises a connector having a first conductor and a second conductor, the second conductor surrounding the male insert.

3. The unitary electrical conduit of claim 2, wherein the first conductor is electrically coupled to the male insert.

4. The unitary electrical conduit of claim 2, wherein the first conductor extends to the first end and the socket is electrically coupled to the first conductor.

5. The unitary electrical conduit of claim 1, wherein the male insert extends past an end of the dielectric sheath.

6. The unitary electrical conduit of claim 1, wherein the threaded connection provides electrical communication between the male insert and the socket.

7. The unitary electrical conduit of claim 1, wherein the dielectric sheath includes a first dielectric layer surrounded by a second dielectric layer.

8. The unitary electrical conduit of claim 1, wherein the central conductor comprises a copper (Cu) material.

9. The unitary electrical conduit of claim 8, wherein the outer conductor comprises an aluminum (Al) material.

10. The unitary electrical conduit of claim 8, wherein the first bendable tube is made of the copper (Cu) material.

11. The unitary electrical conduit of claim 1, further comprising a first flange and a second flange coupled to the outer conductor.

12. The unitary electrical conduit of claim 11, wherein the first flange is coupled to a first end of the outer conductor and the second flange is coupled to a second end of the outer conductor.

13. A chamber, comprising:

a chamber body defining a processing volume;

a substrate support movably disposed in the processing volume; and

the unitary electrical conduit of any one of claims 1 to 12 coupled to the substrate support.