Summary of Invention

[0003a] In accordance with a first aspect of the embodiment, a method of coupling an insulator to a surrounding ferrule in an implantable medical device is disclose. The method includes providing an insulator having a plurality of conducting elements extending therethrough, placing the insulator with conducting elements within a ferrule having a frame-like shape surrounding the insulator along an interface, heating the insulator with a first laser until raising the temperature of insulator to a first temperature level, and welding the ferrule to the insulator along the interface with a second laser once the insulator has reached the first temperature.

[0003b] In accordance with a second aspect of the embodiment, a feedthrough for a medical implantable device is disclosed. The device includes a ferrule including a metal that is configured to be welded to a case of the implantable device, an insulator substantially surrounded by the ferrule and sharing an interface therewith, the insulator including a glass or ceramic material, conductive elements formed through the insulator providing an electrically conductive path through the insulator. There is no braze or solder at the interface between the ferrule and the insulator and that there is no braze or solder adjacent the conductive elements.