

**Abstract**

An operation for removing a core wire during the manufacture of an electrodeposited layer of a metal ferrule for an optical fiber is omitted, so that manufacturing costs can
5 be reduced. Various corrections are applied while measuring the concentricity and circularity of the inside diameter and outside diameter of an electrodeposited layer during manufacture of an electrodeposited layer of a ferrule for an optical fiber, so that precision of the concentricity and circularity of the inside diameter and the outside diameter of the electrodeposited layer is improved. The objective of the
10 present invention is to provide — using the ferrules — a connector that is excellent in connection performance and that enables construction of an optical system having many channels. In addition, electrical current is applied while the central axes of the insertion holes of core wires, whose inside diameters are suited for insertion of optical fibers therein, are arranged and fixed parallel with each other at specified positions,
15 and used as a cathode. Thereby, an electrodeposited layer is integrally formed on the outer periphery of said core wires, so that a connector can be manufactured. Plural cylindrical ferrules, into which optical fibers (to be used in constituting a multi-core optical-fiber cable) are inserted, are coated with resin and the like, while each ferrule is maintained in a specified position, with the positions of the holes of said ferrules
20 serving as a reference in positioning the ferrule. The obtained structures are then piled up, so that a connector for multi-core optical fibers is manufactured.

