

ABSTRACT

ELECTRICAL CONNECTOR

The electrical connector 1 according to one embodiment of the present invention includes a male connector 13 having a male housing 14 with a first latch part 1, a female connector 2 having a female housing with an inserting hole, and a connector position assurance (CPA) 9. The first latch part 1 has first and second latch protrusions P_1 , P_2 , and the female connector 2 has an elastic latch arm 8 with a latch pawl at a leading edge part of the female connector. The CPA 9 includes a first finger piece 9_2 having a first bent protrusion D_1 , second finger pieces 9_1 , 9_3 each having a second bent protrusion D_2 , and a spring-force-accumulated part. The first and second finger pieces of the CPA 9 are attached between the elastic latch arm and one inner wall surface. While the two connectors 2, 13 are fitted, the male connector slides the CPA backward. When the two connectors have entered into a regular fitted state, the spring-force-accumulated part makes the second latch protrusion P_2 latch onto the latch pawl to connect the two connectors. Accordingly, an electrical connector including a fitted state detecting member to lock a pair of its connectors automatically during the fitting process of the connectors and ensure the fitting of the connectors can be provided.

Selected Drawing: Fig. 1