

SMALL-SIZED HIGH-CURRENT ELECTRICAL CONNECTOR AND MATCHING CONNECTOR THEREOF

Abstract

A small-sized high-current electrical connector and a matching connector thereof. The small-sized high-current electrical connector comprises an insulator and contact elements inserted into the insulator, wherein a locking slot extending in an insertion direction of the connector is provided in the insulator, and is configured to be interlocked with a locking claw on a matching connector in a fitting manner; a sliding pressing plate which slides in the insertion direction is further provided on the insulator; and when the locking claw on the matching connector fits with the locking slot, the sliding pressing plate can slide to a locking position where the locking claw on the matching connector can be prevented from being disengaged from the locking slot. In the small-sized high-current electrical connector and the matching connector thereof, when a plug fits with a socket, a pull-ring locking structure is used, such that the reliability of wire-to-board usage scenarios is ensured, and the unlocking during the operation in a narrow space is facilitated. The small-sized high-current electrical connector and the matching connector thereof have the characteristics of small size, high current-carrying capacity and high space utilization rate, thereby facilitating the miniaturization development of servers.

Fig 1a.