

Title (en)

TOLERANCE COMPENSATING, ELECTRIC CONNECTOR, IN PARTICULAR FOR MOTOR VEHICLE CONTROL DEVICES

Title (de)

TOLERANZAUSGLEICHENDER, ELEKTRISCHER VERBINDER, INSBESONDERE FÜR KRAFTFAHRZEUGSTEUERGERÄTE

Title (fr)

CONNECTEUR ÉLECTRIQUE À COMPENSATION DES TOLÉRANCES, NOTAMMENT POUR DES APPAREILS DE COMMANDE DE VÉHICULE À MOTEUR

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Application

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Priority

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Abstract (en)

[origin: WO2009138415A1] The invention relates to an electric connector with a tolerance compensator, comprising a plug-in part and a counter part. An electric connection is established when the plug-in part comprising at least one electrically conductive pin (1) is plugged into the counter part in the z-direction of a Cartesian coordinate system with the vectors x, y and z. According to the invention, the counter part (3, 3') has volume elastic properties, is electrically conductive and forms a predetermined volume. The counter part (3, 3') is limited in the z-direction by, respectively, one contact surface (11a, 11b). In order to establish an electric connection, the at least one electrically conductive pin (1) is aligned essentially in the counterpart (3, 3') in the z-direction and traverses a contact surface (IIa, IIb) in an essentially perpendicular manner. The volume area of the counter part (3, 3') is calculated such that the pin (1) reaches the volume allowing a reliable electric connected to be established, in the framework of a permitted path tolerance in the x- and/or y-direction when plugging together. The invention also relates to the use of the claimed electric connector.

IPC 8 full level

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CPC (source: EP US)

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