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Connectors for electrical and electronic equipment – Product requirements – Part 3-106: Rectangular connectors – Detail specification for protective housings for use with 8-way shielded and unshielded connectors for industrial environments incorporating the IEC 60603-7 series interface

Connecteurs pour équipements électriques et électroniques – Exigences de produit – Partie 3-106: Connecteurs rectangulaires – Spécification particulière pour boîtiers de protection utilisés avec des connecteurs blindés et non blindés 8 voies pour des environnements industriels incorporant l'interface série IEC 60603-7





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8 voies pour des environnements industriels incorporant l'interface série
IEC 60603-7**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONNECTORS FOR ELECTRICAL AND ELECTRONIC EQUIPMENT –
PRODUCT REQUIREMENTS –****Part 3-106: Rectangular connectors – Detail specification for protective housings for use with 8-way shielded and unshielded connectors for industrial environments incorporating the IEC 60603-7 series interface**

FOREWORD

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IEC 61076-3-106 has been prepared by subcommittee 48B: Electrical connectors, of IEC technical committee 48: Electrical connectors and mechanical structures for electrical and electronic equipment. It is an International Standard.

This second edition cancels and replaces the first edition published in 2006. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) improvement of drawings and addition of dimensions.

The text of this International Standard is based on the following documents:

Draft	Report on voting
48B/3034/FDIS	48B/3045/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 61076 series, published under the general title *Connectors for electrical and electronic equipment – Product requirements*, can be found on the IEC website.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

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INTRODUCTION

This document, originally issued in 2006 and including 10 variants, describes now 5 variants of connector housing with different geometries (rectangular or circular) and locking systems (locking lever, snap-in, bayonet coupling) suitable for all the connector interfaces of the IEC 60603-7 series, either shielded or unshielded.

The purpose of this set of variants, now reduced to reflect their market relevance, is to provide several competing ways to upgrade the degree of protection of the resulting data transmission connectors, to IP65/IP67, mainly in view of their use in industrial environments, while maintaining all the original performance of the housed IEC 60603-7 compliant connectors, which can be of different source than these 5 variants of connector housings.

Each variant may be available on the market by multiple sources and based on different materials (i.e. either metallic or thermoplastic insulating, particularly for the main part of the housing, but also regarding the locking means) to suit the needs of various industrial applications.

Some of these variants have been endorsed by other IEC technical committees and/or by external consortia as the reference interface for specific applications.

Being the basic interface of series IEC 60603-7 a rectangular one, this standard document was originally issued as a Part 106 detail product specifications under the IEC 61076-3 sectional specification covering rectangular connectors for electrical and electronic equipment, although half of the original variants described in this document (variants 01, 03, 08, 09 and 10), currently only variant 01 is included in this document – own a circular connector interface, all the variants having nonetheless in common the purpose to upgrade the IP degree of protection to IP65/IP67, and the incorporated IEC 60603-7 series connector interface.

NOTE It is worthwhile to inform users of this document that further variants 11 through 14 referring this document were successively published from 2007 to 2009 as IEC 61076-3-114 through IEC 61076-3-117. Among these variants, for which reference should be made to the relevant publication (see Bibliography), variants 11 and 12 have circular geometry, while variants 13 and 14 have square (rectangular geometry).