

PUBLICLY AVAILABLE SPECIFICATION

PRE-STANDARD

**Connectors for electronic equipment – Product requirements –
Part 3-119: Rectangular connectors – Detail specification for unshielded, free
and fixed 10-way connectors with push-pull coupling for industrial environments
with frequencies up to 100 MHz**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONNECTORS FOR ELECTRONIC EQUIPMENT –
PRODUCT REQUIREMENTS –****Part 3-119: Rectangular connectors –
Detail specification for unshielded, free and fixed 10-way
connectors with push-pull coupling for industrial
environments with frequencies up to 100 MHz**

FOREWORD

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IEC-PAS 61076-3-119 has been processed by subcommittee 48B: Connectors, of IEC technical committee 48: Electromechanical components and mechanical structures for electronic equipment.

The text of this PAS is based on the following document:

This PAS was approved for publication by the P-members of the committee concerned as indicated in the following document

Draft PAS	Report on voting
48B/2351/PAS	48B/2359/RVD

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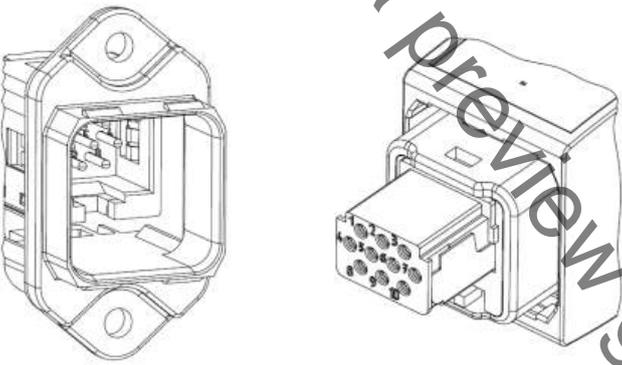
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CONNECTORS FOR ELECTRONIC EQUIPMENT – PRODUCT REQUIREMENTS –

Part 3-119: Rectangular connectors – Detail specification for unshielded, free and fixed 10-way connectors with push-pull coupling for industrial environments with frequencies up to 100 MHz

IEC SC 48B – Connector Specifications available from: IEC General secretariat or from the addresses shown on the inside cover.	IEC PAS 61076-3-1xx Ed. 1.0
ELECTRONIC COMPONENTS DETAIL SPECIFICATION in accordance with IEC 61076-1 and IEC 61076-3	Page 6 of 26
<p>Outline drawing</p> 	Rectangular connector for signals with push-pull coupling
	Fixed and free connectors, for industrial environments

1 Scope

This part of IEC 61076 establishes specifications and test requirements for a connector with ten contacts, for use in industrial environments.

This PAS specifies free and fixed connector inserts, with round contacts, suitable for screw or crimp terminations. Other terminations techniques, as solder or printed board connections are upon agreement between manufacturer and user. The free and fixed connectors have a push-pull locking mechanism for IP65 and IP67 protection according to IEC 60529.

Connectors according this PAS are without breaking capacity COC according to IEC 61984, therefore they are not intended to be engaged or disengaged in normal use when live or under load, if not otherwise specified by the manufacturer.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050-581:2008, *International Electrotechnical Vocabulary – Chapter 581: Electro-mechanical components for electronic equipment*

IEC 60068-1, *Environmental testing – Part 1: General and guidance*

IEC 60068-2-20, *Environmental testing - Part 2-20: Tests - Test T: Test methods for solderability and resistance to soldering heat of devices with leads*

IEC 60352 (all parts): *Solderless connections*

IEC 60512 (all parts), *Electromechanical components for electronic equipment – Basic testing procedures and measuring methods*

IEC 60512-1-2, *Connectors for electronic equipment - Tests and measurements - Part 1-2: General examination - Test 1b: Examination of dimension and mass*

IEC 60529:1989, *Degrees of protection provided by enclosures (IP Code)*

IEC 61076-1:2006, *Connectors for electronic equipment – Part 1: Generic specification*

IEC 61984:2008, *Connectors – Safety requirements and tests*

IEC 62197-1:2006, *Connectors for electronic equipment – Quality assessment requirements – Part 1: Generic specification*

IEC 62430, *Environmentally conscious design for electrical and electronic products*

IEC Guide 109, *Environmental aspects – Inclusion in electrotechnical product standards*

ISO 1302: 2002, *Geometrical Product Specifications (GPS) – Indication of surface texture in technical product documentation*

ISO 11469:2000, *Plastics – Generic identification and marking of plastic products*

3 Technical information

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60050-581 apply.

3.2 Systems of levels

3.2.1 Performance levels

Not applicable for this PAS.

3.2.2 Compatibility levels, according to IEC 61076-1:2006

Connectors according to this PAS are supposed to be intermateable.