

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Connectors for electrical and electronic equipment – Product requirements –
Part 2-116: Detail specification for circular connectors size 15 with up to 3+PE
power contacts and auxiliary contacts, with bayonet-locking**

**Connecteurs pour équipements électriques et électroniques – Exigences de
produit –**

**Partie 2-116: Spécification particulière pour les connecteurs circulaires de taille
15 avec jusqu'à 3+PE contacts de puissance et contacts auxiliaires, avec
verrouillage à baïonnette**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONNECTORS FOR ELECTRICAL AND ELECTRONIC
EQUIPMENT – PRODUCT REQUIREMENTS –****Part 2-116: Detail specification for circular connectors
size 15 with up to 3+PE power contacts and auxiliary
contacts, with bayonet-locking**

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

Draft	Report on voting
48B/3000/FDIS	48B/3010/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.

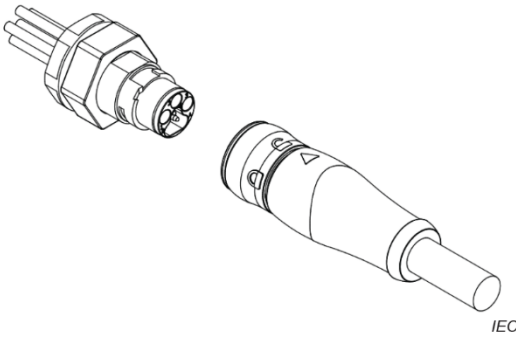
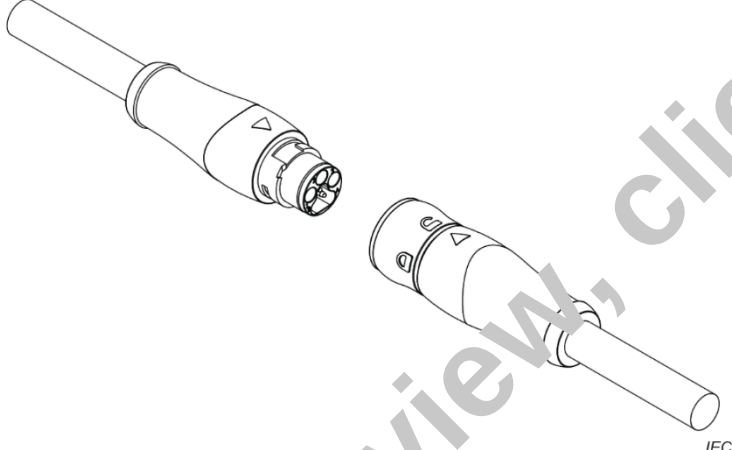
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- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

INTRODUCTION

IEC SC 48B – Electrical connectors Specification available from: IEC General secretariat or from the addresses shown on the inside cover.	IEC 61076-2-116 Ed. 1
DETAIL SPECIFICATION in accordance with IEC 61076-1	
 IEC	Circular connectors for signal and power applications with bayonet locking Male and female connectors Male and female contacts Rewireable and non-rewireable
 IEC	Free cable connectors Straight and right-angle connectors Fixed connectors Flange mounting Single hole mounting With circular mounting orientation

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CONNECTORS FOR ELECTRICAL AND ELECTRONIC EQUIPMENT – PRODUCT REQUIREMENTS –

Part 2-116: Detail specification for circular connectors size 15 with up to 3+PE power contacts and auxiliary contacts, with bayonet-locking

1 Scope

This part of IEC 61076-2 specifies circular connectors size 15 with bayonet-locking, with up to 3 power contacts with rated insulation voltage up to 630 V AC/DC and rated current up to 20 A, plus PE, and up to 3 auxiliary contacts with rated insulation voltage up to 63 V AC/DC and rated current up to 10 A, that are typically used for industrial power supply and power applications, such as the feeding and control of 3-phase asynchronous motors. These connectors consist of both fixed and free connectors either rewirable or non-rewirable, with bayonet locking. Male connectors have round contacts, either power or signal, Ø1,6 mm.

NOTE 1 Size 15 is the dimension of the inner contact carrier of the male connector interface (dimension AG in Table 18).

NOTE 2 Number of power and auxiliary contacts, voltage and current ratings vary according to the type of connector, see Table 1.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. 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, *International Electrotechnical Vocabulary (IEV) – Part 581: Electromechanical components for electronic equipment*

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

IEC 60068-2-60, *Environmental testing – Part 2-60: Tests – Test Ke: Flowing mixed gas corrosion test*

IEC 60352 (all parts), *Solderless connections*

IEC 60512-1, *Connectors for electrical and electronic equipment – Tests and measurements – Part 1: Generic specification*

IEC 60512-1-1, *Connectors for electronic equipment – Tests and measurements – Part 1-1: General examination – Test 1a: Visual examination*

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

IEC 60512-2-1, *Connectors for electronic equipment – Tests and measurements – Part 2-1: Electrical continuity and contact resistance tests – Test 2a: Contact resistance – Millivolt level method*