

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Connectors for electrical and electronic equipment – Product requirements – Part 8-103: Power connectors – Detail specification for 2P+PE circular connectors with 20 A rated current and push-pull locking IP65/IP67 with metal housing**

**Connecteurs pour équipements électriques et électroniques – Exigences de produit – Partie 8-103: Connecteurs d'alimentation – Spécification particulière relative aux connecteurs circulaires 2P+PE avec un courant assigné de 20 A et un mécanisme de verrouillage de type pousser-tirer IP65/IP67, logés dans un boîtier métallique**



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONNECTORS FOR ELECTRICAL AND ELECTRONIC EQUIPMENT –  
PRODUCT REQUIREMENTS –****Part 8-103: Power connectors –  
Detail specification for 2P+PE circular connectors with 20 A  
rated current and push-pull locking IP65/IP67 with metal housing**

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

| Draft        | Report on voting |
|--------------|------------------|
| 48B/2952/CDV | 48B/2990/RVC     |

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.

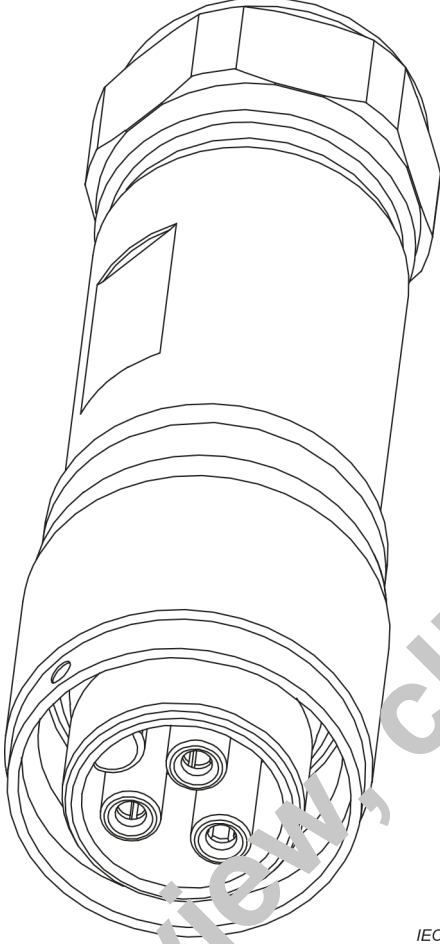
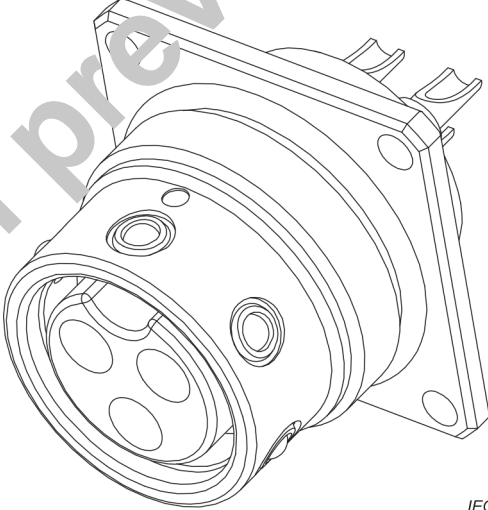
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| The International Electrotechnical Commission<br>IEC SC 48B—Electrical connectors |  | IEC 61076-8-103  |
|---|--|--|
| Detail specification in accordance with IEC 61076-8                               |  |  |
| Free connector  |  <p>IEC</p>  | For rated current of 20 A;<br>2P+PE;<br>Female contacts;<br>Push-pull locking;<br>30° shielding. |
| Fixed connector   |  <p>IEC</p> | For rated current of 20 A;<br>2P+PE;<br>Male contacts;<br>Push-pull locking;<br>360° shielding.  |

# CONNECTORS FOR ELECTRICAL AND ELECTRONIC EQUIPMENT – PRODUCT REQUIREMENTS –

## Part 8-103: Power connectors – Detail specification for 2P+PE circular connectors with 20 A rated current and push-pull locking IP65/IP67 with metal housing

### 1 Scope

This part of IEC 61076-8 describes free and fixed 2-pole power (1P+N) plus PE circular connectors with 20 A rated current, rated voltage up to and including 300 V AC, IP65/IP67 metal housing with push-pull locking (hereinafter referred to as a connectors) for use in electrical and electronic equipment. It includes overall dimensions, interface dimensions, technical characteristics, performance requirements and test methods.

### 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 60228, *Conductors of insulated cables*

IEC 60352-2, *Solderless connections – Part 2: Crimped connections – General requirements, test methods and practical guidance*

IEC 60352-3, *Solderless connections – Part 3: Accessible insulation displacement (ID) connections – General requirements, test methods and practical guidance*

IEC 60352-4, *Solderless connections – Part 4: Non-accessible insulation displacement (ID) connections – General requirements, test methods and practical guidance*

IEC 60352-5, *Solderless connections – Part 5: Press-in connections – General requirements, test methods and practical guidance*

IEC 60352-6, *Solderless connections – Part 6: Insulation piercing connections – General requirements, test methods and practical guidance*

IEC 60352-7, *Solderless connections – Part 7: Spring clamp connections – General requirements, test methods and practical guidance*

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