

# SLOVENSKI STANDARD oSIST prEN IEC 61076-8-104:2022

01-julij-2022

Konektorji za električno in elektronsko opremo - Zahteve za izdelek - 8-104. del: Močnostni konektorji - Podrobna specifikacija za 2-polne okrogle konektorje z naznačenim tokom 40 A in z zaskočnim zaklepanjem IP65/IP67 s kovinskim ohišjem

Connectors for electrical and electronic equipment - Product requirements - Part 8-104: Power connectors - Detail specification for 2-pole circular connectors with 40 A rated current and push-pull locking IP65/IP67 with metal housing

# PREVIEW (standards.iteh.ai)

Connecteurs pour équipements électriques et électroniques - Exigences de produit - Partie 8-104: Connecteurs d'alimentation Spécification particulière relative aux connecteurs circulaires bipolaires avec un courant assigné de 407A et un mécanisme de verrouillage de type pousser-tirer IP65/IP67, logés dans un boîtier métallique

Ta slovenski standard je istoveten z: prEN IEC 61076-8-104:2022

ICS:

31.220.10 Vtiči in vtičnice, konektorji Plug-and-socket devices. Connectors

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# 48B/2953/CDV

### COMMITTEE DRAFT FOR VOTE (CDV)

	IEC 61076-8-104 ED1		
	DATE OF CIRCULATION	ON:	CLOSING DATE FOR VOTING:
	2022-05-06		2022-07-29
	SUPERSEDES DOCUM	MENTS:	
	48B/2899/CD, 48		
	, , , ,		
IEC SC 48B : ELECTRICAL CONNECTORS	,		
SECRETARIAT:		SECRETARY:	
United States of America		Mr Jeffrey Toran	
OF INTEREST TO THE FOLLOWING COMMI	TTEES:	PROPOSED HORIZONTAL STANDARD:	
iTeh STA		Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.	
FUNCTIONS CONCERNED:	DDEX	7112 117	
☐ EMC ☐ ENVIR	CONMENT RE	Quality Assur/	ANCE SAFETY
SUBMITTED FOR CENELEC PARALLE	toning dard	NOT SUBMITTED	FOR CENELEC PARALLEL VOTING
Attention IEC-CENELEC parallel vot	ing		,
The attention of IEC National Committees, members of 61076-8-104:2022 CENELEC, is drawn to the fact that this Committee Draft og/standards/sist/f8371920- for Vote (CDV) is submitted for parallel voting.			
a5c3-4b23-ae37-8f63cf80d760/osist-pren-iec-61076-8- The CENELEC members are invited to vote through the 2022 CENELEC online voting system.			
This document is still under study and	subject to change. I	t should not be use	d for reference purposes.
Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.			
TITLE:			
Connectors for electrical and electronic equipment – Product requirements – Part 8-104: Power connectors – Detail specification for 2-pole circular connectors with 40 A rated current and push-pull locking IP65/IP67 with metal housing			
PROPOSED STABILITY DATE: 2025			
Note from TC/SC officers:			

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#### INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### CONNECTORS FOR ELECTRONIC EQUIPMENT -PRODUCT REQUIREMENTS -

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### Part 8-104: Power connectors – Detail specification for 2-pole circular connectors with 40 A rated current and push-pull locking IP65/IP67 with metal housing

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- International Standard IEC 61076-8-104 has been prepared by subcommittee 48B: Connectors, of IEC technical committee 48: Electrical connectors and mechanical structures 145 for electrical and electronic equipment.
- The text of this International Standard is based on the following documents: 147

Draft	Report on voting	
XX/XX/FDIS	XX/XX/RVD	

148 149 150

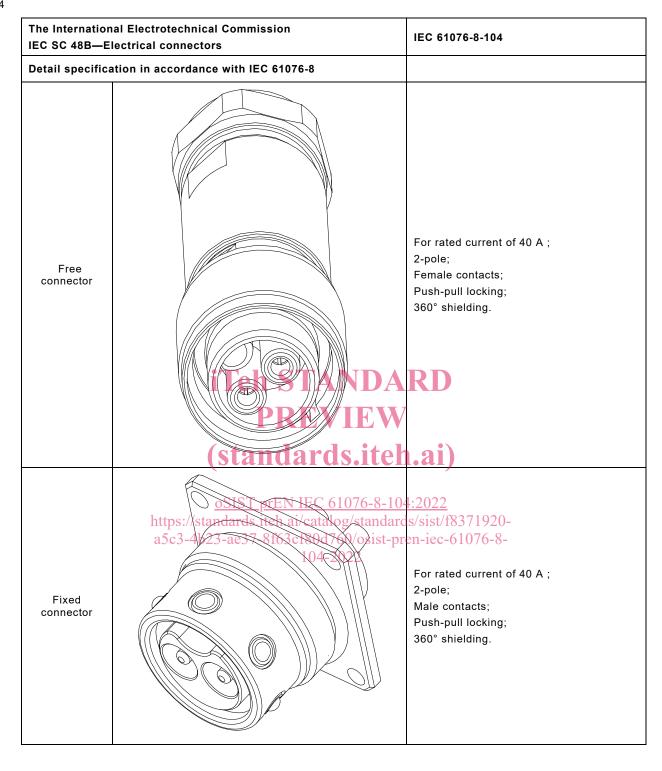
- Full information on the voting for its approval can be found in the report on voting indicated in the above table.
- The language used for the development of this International Standard is English. 151
- 152 This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, 153

- available at www.iec.ch/members\_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.
- The committee has decided that the contents of this document will remain unchanged until the
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- specific document. At this date, the document will be
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- withdrawn,
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- 162 amended.

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- 172 This part of IEC 61076-8 describes free and fixed 2-pole circular power connectors with 40 A rated current, rated voltage up to and including 50 V AC/DC, and push-pull locking IP65/IP67 173 metal housings (hereinafter referred to as connectors) for use in electrical and electronic 174
- equipment. It includes overall dimensions, interface dimensions, technical characteristics, 175
- performance requirements and test methods. 176

#### **Normative references**

- The following documents are referred to in the text in such a way that some or all of their 178
- content constitutes requirements of this document. For dated references, only the edition 179
- cited applies. For undated references, the latest edition of the referenced document (including 180
- any amendments) applies. 181
- IEC 60050-581, International Electrotechnical Vocabulary Part 581: Electromechanical 182
- components for electronic equipment 183
- IEC 60068-1, Environmental testing Part 1: General and guidance 184
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- 186 corrosion test

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- IEC 60228, Conductors of insulated cables 187
- IEC 60352-2, Solderless connections + CPart 72: 8 pring Clamp connections General 188
- requirements, test methods and practical guidance standards/sist/f8371920-189
- a5c3-4b23-ae37-8f63cf80d760/osist-pren-iec-61076-8-IEC 60352-3, Solderless connections Part 3: Solderless accessible insulation displacement 190
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- IEC 60529:1989+AMD1:1999+AMD2:2013, Degrees of protection provided by enclosures (IP 250
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- 252 IEC 60664-1:2020, Insulation coordination for equipment within low-voltage supply systems -
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- IEC 60695-2-11:2014, Fire hazard testing Part 2-11: Glowing/hot-wire based test methods 254
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- IEC 60999-1, Connecting devices Electrical copper conductors Safety requirements for 256
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- requirements for clamping units for conductors from 0,2 mm<sup>2</sup> up to 35 mm<sup>2</sup> (included) 258
- IEC 61076-1:2006, Connectors for electronic equipment Part 1: Generic specification 259
- IEC 61984, Connectors Safety requirements and tests 260
- IEC Guide 109, Environmental aspects Inclusion in electrotechnical product standards 261
- 262 IEC 62430:2009, Environmentally conscious design for electrical and electronic products
- 263 ISO 1302, Geometrical Product Specifications (GPS) - Indication of surface texture in
- technical product documentation 264
- ISO 6508-1, Metallic materials Rockwell hardness test Part 1: Test method (scales A, B, 265
- C, D, E, F, G, H, K, N, T) 266
- ISO 11469, Plastics Generic identification and marking of plastic products 267
- Terms and definitions 268
- For the purposes of this document, the terms and definitions given in IEC 60050-581 apply. 269
- ISO and IEC maintain terminological databases for use in standardization at the following addresses: 270
- addresses: 271
- IEC Electropedia: available at http://www.electropedia.org/ 272
- ISO Online browship platform available at fittp://www.isolorg/obp371920-273

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- **Technical information** 274 104-2022
- Recommended method of termination 275
- 4.1.1 General 276
- According to IEC 60352 series or IEC 60999-1. 277
- 4.1.2 Number of contacts and contact cavities 278
- Number of contacts: power contacts: 2 279
- Number of contact cavities (for removable contacts): 2 280
- Suitable wire: cross-sectional area for power contacts: 4 mm<sup>2</sup> to 6 mm<sup>2</sup>. The core of each 281
- power wire shall be individually shielded, each shielding requiring a dedicated termination. 282
- 283 Ratings and characteristics
- Connectors according to this specification are connectors without breaking capacity (COC) 284
- according to IEC 61984, therefore they are not intended to be engaged or disengaged in 285
- normal use when live or under load. 286
- Rated voltage: 50 V AC/DC 287
- Rated impulse voltage *U*<sub>imp</sub>: 4 kV 288
- Voltage proof: 2 500 V AC 289
- Pollution degree: 2 290