



SLOVENSKI STANDARD
oSIST prEN IEC 61784-5-8:2022
01-junij-2022

Industrijska komunikacijska omrežja - Profili - 5-8. del: Inštalacija procesnih vodil - Inštalacijski profili za CPF 8

Industrial communication networks - Profiles - Part 5-8: Installation of fieldbuses - Installation profiles for CPF 8

Industrielle Kommunikationsnetze - Profile - Teil 5-8: Feldbusinstallation - Installationsprofile für die Kommunikationsprofilfamilie 8

Réseaux de communication industriels - Profils - Partie 5-8: Installation des bus de terrain - Profils d'installation pour CPF 8

Ta slovenski standard je istoveten z: prEN IEC 61784-5-8:2022

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35.100.40	Transportni sloj	Transport layer

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OF INTEREST TO THE FOLLOWING COMMITTEES: SC 22G, TC 57, SC 121A	PROPOSED HORIZONTAL STANDARD: <input type="checkbox"/> Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.
FUNCTIONS CONCERNED: <input type="checkbox"/> EMC <input type="checkbox"/> ENVIRONMENT <input type="checkbox"/> QUALITY ASSURANCE <input type="checkbox"/> SAFETY	
<input checked="" type="checkbox"/> SUBMITTED FOR CENELEC PARALLEL VOTING Attention IEC-CENELEC parallel voting The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting. The CENELEC members are invited to vote through the CENELEC online voting system.	<input type="checkbox"/> NOT SUBMITTED FOR CENELEC PARALLEL VOTING

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TITLE:

Industrial communication networks - Profiles - Part 5-8: Installation of fieldbuses - Installation profiles for CPF 8

PROPOSED STABILITY DATE: 2028

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

INDUSTRIAL COMMUNICATION NETWORKS – PROFILES –

Part 5-8: Installation of fieldbuses – Installation profiles for CPF 8

FOREWORD

- 218 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising
219 all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international
220 co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and
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223 preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with
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247 indispensable for the correct application of this publication.
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249 rights. IEC shall not be held responsible for identifying any or all such patent rights.

250 IEC 61784-5-8 has been prepared by subcommittee 65C: Industrial networks, of IEC technical
251 committee 65: Industrial-process measurement, control and automation. It is an International
252 Standard.

253 This document is to be used in conjunction with IEC 61918:2018 and IEC 61918:2018/AMD1:—.

254 This third edition cancels and replaces the second edition published in 2018. This edition
255 constitutes a technical revision.

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

- 258 a) Annex E and related references are added.

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

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

260
261 Full information on the voting for its approval can be found in the report on voting indicated in
262 the above table.

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

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

268 A list of all parts of IEC 61784-5 series, under the general title *Industrial communication*
269 *networks – Profiles – Installation of fieldbuses*, can be found on the IEC website.

270 The committee has decided that the contents of this document will remain unchanged until the
271 stability date indicated on the IEC website under webstore.iec.ch in the data related to the
272 specific document. At this date, the document will be

- 273 • reconfirmed,
- 274 • withdrawn,
- 275 • replaced by a revised edition, or
- 276 • amended.

277

278 A bilingual version of this publication may be issued at a later date.
279

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

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INTRODUCTION

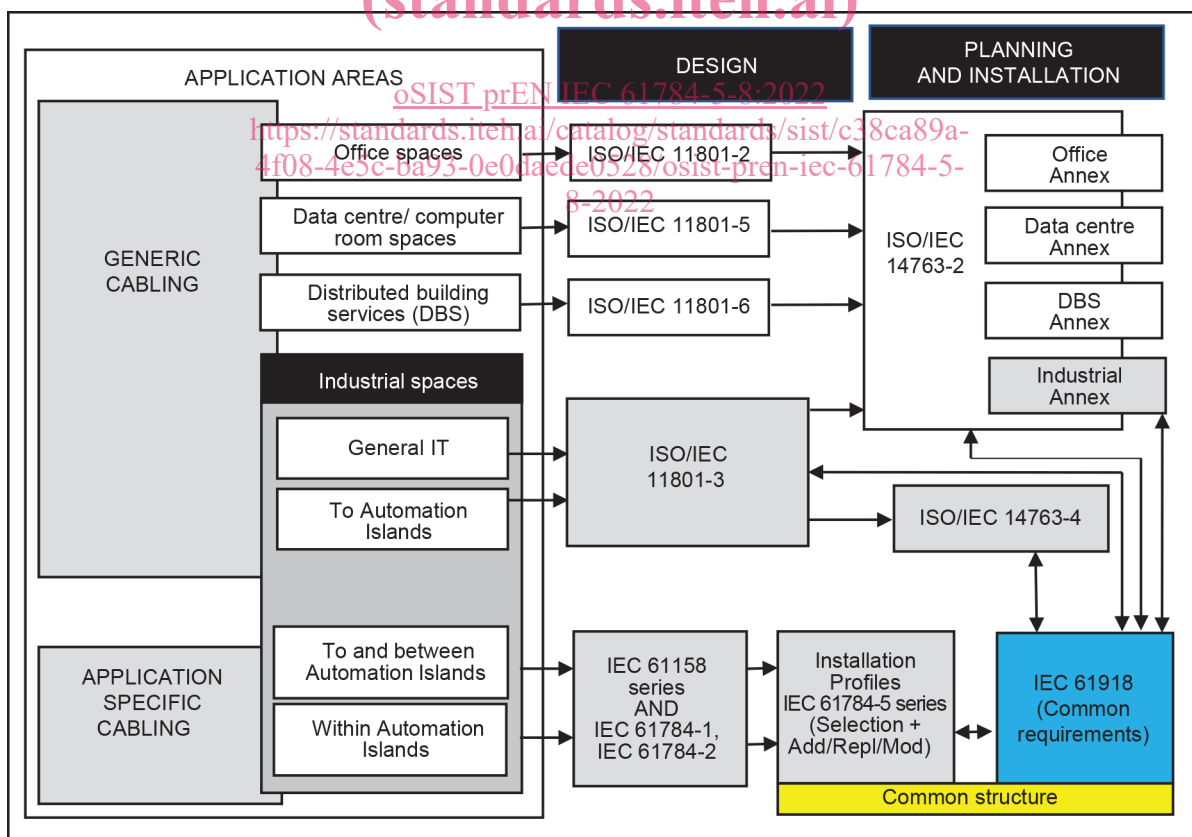
283 This International Standard is one of a series produced to facilitate the use of communication
284 networks in industrial control systems.

285 IEC 61918:2018 and IEC 61918:2018/AMD1:— provide the common requirements for the
286 installation of communication networks in industrial control systems. This installation profile
287 standard provides the installation profiles of the communication profiles (CP) of a specific
288 communication profile family (CPF) by stating which requirements of IEC 61918:2018 and
289 IEC 61918:2018/AMD1:— fully apply and, where necessary, by supplementing, modifying, or
290 replacing the other requirements (see Figure 1).

291 For general background on fieldbuses, their profiles, and relationship between the installation
292 profiles specified in this document, see IEC 61158-1.

293 Each CP installation profile is specified in a separate annex of this document. Each annex is
294 structured exactly as the reference standard IEC 61918:2018 for the benefit of the persons
295 representing the roles in the fieldbus installation process as defined in IEC 61918:2018 (planner,
296 installer, verification personnel, validation personnel, maintenance personnel, administration
297 personnel). By reading the installation profile in conjunction with IEC 61918:2018, these
298 persons immediately know which requirements are common for the installation of all CPs and
299 which are modified or replaced. The conventions used to draft this document are defined in
300 Clause 5.

301 The provision of the installation profiles in one standard for each CPF (for example
302 IEC 61784-5-8 for CPF 8), allows readers to work with standards of a convenient size.



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Figure 1 – Standards relationships

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INDUSTRIAL COMMUNICATION NETWORKS – PROFILES –

Part 5-8: Installation of fieldbuses – Installation profiles for CPF 8

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314 **1 Scope**

315 This part of IEC 61784-5 specifies the installation profiles for CPF 8 (CC-Link¹).

316 The installation profiles are specified in the annexes. These annexes are read in conjunction
317 with IEC 61918:2018 and IEC 61918:2018/AMD1:—.

318 **2 Normative references**

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

323 IEC 61918:2018, *Industrial communication networks – Installation of communication networks*
324 *in industrial premises*

325 IEC 61918:2018/AMD1:—, Amendment 1 – *Industrial communication networks – Installation of*
326 *communication networks in industrial premises*

327 The normative references of IEC 61918:2018, Clause 2, and IEC 61918:2018/AMD1:—,
328 Clause 2, apply.

329 NOTE For profile specific normative references, see Clauses A.2, B.2, and E.2 respectively.

330 **3 Terms, definitions and abbreviated terms**

331 For the purpose of this document, the terms, definitions and abbreviated terms given in
332 IEC 61918:2018, Clause 3 and IEC 61918:2018/AMD1:—, Clause 3 apply.

333 ISO and IEC maintain terminological databases for use in standardization at the following
334 addresses:

- 335 • IEC Electropedia: available at <http://www.electropedia.org/>
- 336 • ISO Online browsing platform: available at <http://www.iso.org/obp>

¹ CC-Link, CC-Link/LT and CC-Link IE are trade names of Mitsubishi Electric Co., control of trade name use is given to CCLink Partner Association. This information is given for the convenience of users of this document and does not constitute an endorsement by IEC of the trademark holder or any of its products. Compliance to this profile does not require use of the trade name. Use of the trade name requires permission of the trade name holder.

² Under preparation. Stage at time of publication: IEC/FDIS 61918:2018/AMD1

337 **4 CPF 8: Overview of installation profiles**

338 CPF 8 consists of 5 Communication Profiles as specified in IEC 61784-1-8 and IEC 61784-2-8.

339 The installation requirements for CP 8/1 (CC-Link/V1) and CP 8/2 (CC-Link/V2) are specified
340 in Annex A.

341 The installation requirements for CP 8/3 (CC-Link/LT) are specified in Annex B.

342 The installation requirements for CP 8/4 (CC-Link IE Controller Network) are specified in
343 Annex C.

344 The installation requirements for CP 8/5 (CC-Link IE Field Network) are specified in Annex D.

345 The installation requirements for CP 8/6 (CC-Link IE TSN) are specified in Annex E.

346 **5 Installation profile conventions**

347 The numbering of the clauses and subclauses in the annexes of this document corresponds to
348 the numbering of IEC 61918 main clauses and subclauses.

349 The annex clauses and subclauses of this document supplement, modify, or replace the
350 respective clauses and subclauses in IEC 61918

351 Where there is no corresponding subclause of IEC 61918 in the normative annexes in this
352 document, the subclause of IEC 61918 applies without modification.

353 The annex heading letter represents the installation profile assigned in Clause 4. The annex
354 heading number shall represent the corresponding numbering of IEC 61918.

355 EXAMPLE "Subclause B.4.4" in IEC 61784-5-8 means that CP 8/3 specifies the subclause 4.4 of IEC 61918.

356 All main clauses of IEC 61918 are cited and apply in full unless otherwise stated in each
357 normative installation profile annex.

358 If all subclauses of a (sub)clause are omitted, then the corresponding IEC 61918 (sub)clause
359 applies.

360 If in a (sub)clause it is written "Not applicable", then the corresponding IEC 61918 (sub)clause
361 does not apply.

362 If in a (sub)clause it is written "*Addition:*", then the corresponding IEC 61918 (sub)clause
363 applies with the additions written in the profile.

364 If in a (sub)clause it is written "*Replacement:*", then the text provided in the profile replaces the
365 text of the corresponding IEC 61918 (sub)clause.

366 NOTE A replacement can also comprise additions.

367 If in a (sub)clause it is written "*Modification:*", then the corresponding IEC 61918 (sub)clause
368 applies with the modifications written in the profile.

369 If all (sub)clauses of a (sub)clause are omitted but in this (sub)clause it is written "*(Sub)clause*
370 *x has addition:*" (or "*replacement:*") or "(Sub)clause x is not applicable.", then (sub)clause x
371 becomes valid as declared and all the other corresponding IEC 61918 (sub)clauses apply.

372 **6 Conformance to installation profiles**

373 Each installation profile within this document includes part of IEC 61918:2018 and
374 IEC 61918:2018/AMD1:—. It may also include defined additional specifications.

375 A statement of compliance with an installation profile of this document shall be stated³ as either

376 Compliance with IEC 61784-5-8:—⁴ for CP 8/m <CC-Link> or

377 Compliance with IEC 61784-5-8 (Ed.3.0) for CP 8/m <CC-Link>

378 where the name within the angle brackets < > is optional and the angle brackets are not to be
379 included. The m within CP 8/m shall be replaced by the profile number 1 to 5.

380 NOTE The name may be the name of the profile, as: CC-Link/V1, CC-Link/V2, CC-Link/LT, CC-Link IE Controller
381 Network, or CC-Link IE Field Network.

382 If the name is a trade name then the permission of the trade name holder shall be required.

383 Product standards shall not include any conformity assessment aspects (including quality
384 management provisions), neither normative nor informative, other than provisions for product
385 testing (evaluation and examination).

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³ In accordance with ISO/IEC Directives.

⁴ The date should not be used when the edition number is used.

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Annex A (normative)

CP 8/1 and CP 8/2 (CC-Link/V1 and CC-Link/V2) specific installation profile

A.1 Installation profile scope

392 *Addition:*

393 This annex specifies the installation profile for Communication Profile CP 8/1 (CC-Link/V1) and
394 CP 8/2 (CC-Link/V2). The CP 8/1 and CP 8/2 are specified in IEC 61784-1-8.

395 CP 8/1 and CP 8/2 networks implement a medium attachment unit compliant with ISO/IEC 8482
396 and is a derivative of ANSI TIA/EIA-485-A.

A.2 Normative references

398 *Addition:*

399 ISO/IEC 8482, *Information technology – Telecommunications and information exchange*
400 *between systems – Twisted pair multipoint interconnections*

401 ANSI TIA/EIA-485-A, *Electrical Characteristics of Generators and Receivers for Use in*
402 *Balanced Digital Multipoint Systems*

A.3 Installation profile terms, definitions, and abbreviated terms

A.3.1 Terms and definitions

A.3.2 Abbreviated terms

A.3.3 Conventions for installation profiles

407 Not applicable.

A.4 Installation planning

A.4.1 General

A.4.1.1 Objective

A.4.1.2 Cabling in industrial premises

412 *Addition:*

413 Generic cabling in accordance with ISO/IEC 11801-3 is not suitable for the cabling of CP 8/1 or
414 CP 8/2 networks.

A.4.1.3 The planning process

A.4.1.4 Specific requirements for CPs

417 Not applicable.