

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



---

**Industrial communication networks – Profiles –  
Part 5-6: Installation of fieldbuses – Installation profiles for CPF 6**

**Réseaux de communication industriels – Profils –  
Partie 5-6: Installation des bus de terrain – Profils d'installation pour CPF 6**



## THIS PUBLICATION IS COPYRIGHT PROTECTED

Copyright © 2018 IEC, Geneva, Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either IEC or IEC's member National Committee in the country of the requester. If you have any questions about IEC copyright or have an enquiry about obtaining additional rights to this publication, please contact the address below or your local IEC member National Committee for further information.

Droits de reproduction réservés. Sauf indication contraire, aucune partie de cette publication ne peut être reproduite ni utilisée sous quelque forme que ce soit et par aucun procédé, électronique ou mécanique, y compris la photocopie et les microfilms, sans l'accord écrit de l'IEC ou du Comité national de l'IEC du pays du demandeur. Si vous avez des questions sur le copyright de l'IEC ou si vous désirez obtenir des droits supplémentaires sur cette publication, utilisez les coordonnées ci-après ou contactez le Comité national de l'IEC de votre pays de résidence.

IEC Central Office  
3, rue de Varembe  
CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
[info@iec.ch](mailto:info@iec.ch)  
[www.iec.ch](http://www.iec.ch)

### About the IEC

The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes International Standards for all electrical, electronic and related technologies.

### About IEC publications

The technical content of IEC publications is kept under constant review by the IEC. Please make sure that you have the latest edition, a corrigendum or an amendment might have been published.

#### IEC publications search - [webstore.iec.ch/advsearchform](http://webstore.iec.ch/advsearchform)

The advanced search enables to find IEC publications by a variety of criteria (reference number, text, technical committee,...). It also gives information on projects, replaced and withdrawn publications.

#### IEC Just Published - [webstore.iec.ch/justpublished](http://webstore.iec.ch/justpublished)

Stay up to date on all new IEC publications. Just Published details all new publications released. Available online and once a month by email.

#### IEC Customer Service Centre - [webstore.iec.ch/csc](http://webstore.iec.ch/csc)

If you wish to give us your feedback on this publication or need further assistance, please contact the Customer Service Centre: [sales@iec.ch](mailto:sales@iec.ch).

#### Electropedia - [www.electropedia.org](http://www.electropedia.org)

The world's leading online dictionary on electrotechnology, containing more than 22 000 terminological entries in English and French, with equivalent terms in 16 additional languages. Also known as the International Electrotechnical Vocabulary (IEV) online.

#### IEC Glossary - [std.iec.ch/glossary](http://std.iec.ch/glossary)

67 000 electrotechnical terminology entries in English and French extracted from the Terms and Definitions clause of IEC publications issued since 2002. Some entries have been collected from earlier publications of IEC TC 37, 77, 86 and CISPR.

---

### A propos de l'IEC

La Commission Electrotechnique Internationale (IEC) est la première organisation mondiale qui élabore et publie des Normes internationales pour tout ce qui a trait à l'électricité, à l'électronique et aux technologies apparentées.

### A propos des publications IEC

Le contenu technique des publications IEC est constamment revu. Veuillez vous assurer que vous possédez l'édition la plus récente, un corrigendum ou amendement peut avoir été publié.

#### Recherche de publications IEC -

[webstore.iec.ch/advsearchform](http://webstore.iec.ch/advsearchform)

La recherche avancée permet de trouver des publications IEC en utilisant différents critères (numéro de référence, texte, comité d'études,...). Elle donne aussi des informations sur les projets et les publications remplacées ou retirées.

#### IEC Just Published - [webstore.iec.ch/justpublished](http://webstore.iec.ch/justpublished)

Restez informé sur les nouvelles publications IEC. Just Published détaille les nouvelles publications parues. Disponible en ligne et une fois par mois par email.

#### Service Clients - [webstore.iec.ch/csc](http://webstore.iec.ch/csc)

Si vous désirez nous donner des commentaires sur cette publication ou si vous avez des questions contactez-nous: [sales@iec.ch](mailto:sales@iec.ch).

#### Electropedia - [www.electropedia.org](http://www.electropedia.org)

Le premier dictionnaire d'électrotechnologie en ligne au monde, avec plus de 22 000 articles terminologiques en anglais et en français, ainsi que les termes équivalents dans 16 langues additionnelles. Egalement appelé Vocabulaire Electrotechnique International (IEV) en ligne.

#### Glossaire IEC - [std.iec.ch/glossary](http://std.iec.ch/glossary)

67 000 entrées terminologiques électrotechniques, en anglais et en français, extraites des articles Termes et Définitions des publications IEC parues depuis 2002. Plus certaines entrées antérieures extraites des publications des CE 37, 77, 86 et CISPR de l'IEC.

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



---

**Industrial communication networks – Profiles –  
Part 5-6: Installation of fieldbuses – Installation profiles for CPF 6**

**Réseaux de communication industriels – Profils –  
Partie 5-6: Installation des bus de terrain – Profils d'installation pour CPF 6**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

---

ICS 25.040.40; 35.100.40

ISBN 978-2-8322-9178-8

**Warning! Make sure that you obtained this publication from an authorized distributor.  
Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.**

## CONTENTS

|   |    |
|---|----|
| FOREWORD.....   | 7  |
| INTRODUCTION.....   | 9  |
| 1 Scope.....  | 10 |
| 2 Normative references .....  | 10 |
| 3 Terms, definitions and abbreviated terms .....  | 10 |
| 4 CPF 6: Overview of installation profiles .....  | 10 |
| 5 Installation profile conventions .....  | 11 |
| 6 Conformance to installation profiles.....   | 11 |
| Annex A (normative) CPF 6 Type 8 network specific installation profile.....                   | 13 |
| A.1 Installation profile scope.....   | 13 |
| A.2 Normative references .....  | 13 |
| A.3 Installation profile terms, definitions, and abbreviated terms .....                      | 14 |
| A.3.1 Terms and definitions.....  | 14 |
| A.3.2 Abbreviated terms.....  | 14 |
| A.3.3 Conventions for installation profiles .....   | 15 |
| A.4 Installation planning .....   | 15 |
| A.4.1 General.....  | 15 |
| A.4.1.1 Objective .....   | 15 |
| A.4.1.2 Cabling in industrial premises.....   | 15 |
| A.4.1.3 The planning process .....  | 15 |
| A.4.1.4 Specific requirements for CPs .....   | 15 |
| A.4.1.5 Specific requirements for generic cabling in accordance with<br>ISO/IEC 11801-3 ..... | 15 |
| A.4.2 Planning requirements .....   | 15 |
| A.4.2.1 Safety.....   | 15 |
| A.4.2.2 Security .....  | 16 |
| A.4.2.3 Environmental considerations and EMC.....   | 16 |
| A.4.2.4 Specific requirements for generic cabling in accordance with<br>ISO/IEC 11801-3 ..... | 16 |
| A.4.3 Network capabilities.....   | 16 |
| A.4.3.1 Network topology.....   | 16 |
| A.4.3.2 Network characteristics.....  | 18 |
| A.4.4 Selection and use of cabling components .....   | 21 |
| A.4.4.1 Cable selection.....  | 21 |
| A.4.4.2 Connecting hardware selection.....  | 24 |
| A.4.4.3 Connections within a channel/permanent link .....                                     | 26 |
| A.4.4.4 Terminators .....   | 27 |
| A.4.4.5 Device location and connection .....  | 27 |
| A.4.4.6 Coding and labelling .....  | 27 |
| A.4.4.7 Earthing and bonding of equipment and devices and shielded cabling .....              | 28 |
| A.4.4.8 Storage and transportation of cables .....  | 29 |
| A.4.4.9 Routing of cables.....  | 29 |
| A.4.4.10 Separation of circuit.....   | 29 |
| A.4.4.11 Mechanical protection of cabling components .....                                    | 29 |
| A.4.4.12 Installation in special areas .....  | 29 |
| A.4.5 Cabling planning documentation .....  | 29 |

|          |  |    |
|----------|--|----|
| A.4.5.1  | Common description .....   | 29 |
| A.4.5.2  | Cabling planning documentation for CPs .....   | 29 |
| A.4.5.3  | Network certification documentation .....  | 29 |
| A.4.5.4  | Cabling planning documentation for generic cabling in accordance with<br>ISO/IEC 11801-3 ..... | 29 |
| A.4.6    | Verification of cabling planning specification .....   | 29 |
| A.5      | Installation implementation .....  | 29 |
| A.5.1    | General requirements .....   | 29 |
| A.5.1.1  | Common description .....   | 29 |
| A.5.1.2  | Installation of CPs .....  | 29 |
| A.5.1.3  | Installation of generic cabling in industrial premises .....                                   | 29 |
| A.5.2    | Cable installation .....   | 29 |
| A.5.2.1  | General requirements for all cabling types .....   | 29 |
| A.5.2.2  | Installation and routing .....   | 31 |
| A.5.2.3  | Specific requirements for CPs .....  | 31 |
| A.5.2.4  | Specific requirements for wireless installation .....  | 31 |
| A.5.2.5  | Specific requirements for generic cabling in accordance with<br>ISO/IEC 11801-3 .....          | 31 |
| A.5.3    | Connector installation .....   | 32 |
| A.5.3.1  | Common description .....   | 32 |
| A.5.3.2  | Shielded connectors .....  | 32 |
| A.5.3.3  | Unshielded connectors .....  | 32 |
| A.5.3.4  | Specific requirements for CPs .....  | 32 |
| A.5.3.5  | Specific requirements for wireless installation .....  | 33 |
| A.5.3.6  | Specific requirements for generic cabling in accordance with<br>ISO/IEC 11801-3 .....          | 33 |
| A.5.4    | Terminator installation .....  | 33 |
| A.5.5    | Device installation .....  | 33 |
| A.5.6    | Coding and labelling .....   | 33 |
| A.5.7    | Earthing and bonding of equipment and devices and shield cabling .....                         | 33 |
| A.5.8    | As-implemented cabling documentation .....   | 34 |
| A.6      | Installation verification and installation acceptance test .....                               | 34 |
| A.6.1    | General .....  | 34 |
| A.6.2    | Installation verification .....  | 34 |
| A.6.2.1  | General .....  | 34 |
| A.6.2.2  | Verification according to cabling planning documentation .....                                 | 34 |
| A.6.2.3  | Verification of earthing and bonding .....   | 34 |
| A.6.2.4  | Verification of shield earthing .....  | 34 |
| A.6.2.5  | Verification of cabling system .....   | 34 |
| A.6.2.6  | Cable selection verification .....   | 34 |
| A.6.2.7  | Connector verification .....   | 34 |
| A.6.2.8  | Connection verification .....  | 34 |
| A.6.2.9  | Terminator verification .....  | 34 |
| A.6.2.10 | Coding and labelling verification .....  | 34 |
| A.6.2.11 | Verification report .....  | 35 |
| A.6.3    | Installation acceptance test .....   | 35 |
| A.6.3.1  | General .....  | 35 |
| A.6.3.2  | Acceptance test of Ethernet based cabling .....  | 35 |
| A.6.3.3  | Acceptance test of non-Ethernet-based cabling .....  | 35 |

|                     |   |    |
|---------------------|---|----|
| A.6.3.4             | Specific requirements for wireless installation.....                                  | 35 |
| A.6.3.5             | Acceptance test report.....   | 35 |
| A.7                 | Installation administration.....  | 35 |
| A.8                 | Installation maintenance and installation troubleshooting.....                        | 35 |
| Annex B (normative) | CPF 6 Ethernet network specific installation profile .....                            | 37 |
| B.1                 | Installation profile scope.....   | 37 |
| B.2                 | Normative references .....  | 37 |
| B.3                 | Installation profile terms, definitions, and abbreviated terms.....                   | 38 |
| B.3.1               | Terms and definitions.....  | 38 |
| B.3.2               | Abbreviated terms.....  | 38 |
| B.3.3               | Conventions for installation profiles .....   | 38 |
| B.4                 | Installation planning .....   | 38 |
| B.4.1               | General.....  | 38 |
| B.4.1.1             | Objective .....   | 38 |
| B.4.1.2             | Cabling in industrial premises.....   | 38 |
| B.4.1.3             | The planning process .....  | 38 |
| B.4.1.4             | Specific requirements for CPs .....   | 38 |
| B.4.1.5             | Specific requirements for generic cabling in accordance with<br>ISO/IEC 11801-3 ..... | 38 |
| B.4.2               | Planning requirements .....   | 38 |
| B.4.2.1             | Safety.....   | 38 |
| B.4.2.2             | Security .....  | 39 |
| B.4.2.3             | Environmental considerations and EMC.....   | 39 |
| B.4.2.4             | Specific requirements for generic cabling in accordance with<br>ISO/IEC 11801-3 ..... | 39 |
| B.4.3               | Network capabilities.....   | 39 |
| B.4.3.1             | Network topology.....   | 39 |
| B.4.3.2             | Network characteristics.....  | 40 |
| B.4.4               | Selection and use of cabling components .....   | 42 |
| B.4.4.1             | Cable selection.....  | 42 |
| B.4.4.2             | Connecting hardware selection.....  | 44 |
| B.4.4.3             | Connections within a channel/permanent link .....                                     | 47 |
| B.4.4.4             | Terminators .....   | 47 |
| B.4.4.5             | Device location and connection .....  | 48 |
| B.4.4.6             | Coding and labelling .....  | 48 |
| B.4.4.7             | Earthing and bonding of equipment and devices and shielded cabling .....              | 48 |
| B.4.4.8             | Storage and transportation of cables .....  | 48 |
| B.4.4.9             | Routing of cables.....  | 48 |
| B.4.4.10            | Separation of circuit.....  | 48 |
| B.4.4.11            | Mechanical protection of cabling components .....                                     | 48 |
| B.4.4.12            | Installation in special areas .....   | 48 |
| B.4.5               | Cabling planning documentation .....  | 48 |
| B.4.6               | Verification of cabling planning specification .....                                  | 48 |
| B.5                 | Installation implementation .....   | 48 |
| B.5.1               | General requirements .....  | 48 |
| B.5.2               | Cable installation .....  | 48 |
| B.5.2.1             | General requirements for all cabling types.....                                       | 48 |
| B.5.2.2             | Installation and routing .....  | 49 |

|         |  |    |
|---------|--|----|
| B.5.2.3 | Specific requirements for CPs .....  | 49 |
| B.5.2.4 | Specific requirements for wireless installation.....                                       | 50 |
| B.5.2.5 | Specific requirements for generic cabling in accordance with<br>ISO/IEC 11801-3 .....      | 50 |
| B.5.3   | Connector installation .....   | 50 |
| B.5.3.1 | Common description .....   | 50 |
| B.5.3.2 | Shielded connectors .....  | 50 |
| B.5.3.3 | Unshielded connectors .....  | 50 |
| B.5.3.4 | Specific requirements for CPs .....  | 50 |
| B.5.3.5 | Specific requirements for wireless installation.....                                       | 50 |
| B.5.3.6 | Specific requirements for generic cabling in accordance with ISO/IEC<br>11801-3 .....      | 50 |
| B.5.4   | Terminator installation .....  | 50 |
| B.5.5   | Device installation.....   | 50 |
| B.5.6   | Coding and labelling .....   | 50 |
| B.5.7   | Earthing and bonding of equipment and devices and shield cabling .....                     | 50 |
| B.5.8   | As-implemented cabling documentation .....   | 51 |
| B.6     | Installation verification and installation acceptance test.....                            | 51 |
| B.6.1   | General.....   | 51 |
| B.6.2   | Installation verification .....  | 51 |
| B.6.3   | Installation acceptance test.....  | 51 |
| B.7     | Installation administration.....   | 51 |
| B.8     | Installation maintenance and installation troubleshooting.....                             | 51 |
|         | Bibliography.....  | 52 |
|         | Figure 1 – Standards relationships.....  | 9  |
|         | Figure A.1 – Type 8 network structure example .....  | 17 |
|         | Figure A.2 – Example of a Type 8 network configuration.....                                | 18 |
|         | Figure A.3 – Sub-D connector pin assignment .....  | 32 |
|         | Figure A.4 – M23 circular connector pin assignment .....                                   | 32 |
|         | Figure A.5 – M12 circular connector pin assignment .....                                   | 33 |
|         | Figure A.6 – Terminal connector at the device .....  | 33 |
|         | Figure B.1 – Terminal connector at the device .....  | 50 |
|         | Table A.1 – Basic network characteristics for balanced cabling not based on Ethernet ..... | 19 |
|         | Table A.2 – Network characteristics for optical fibre cabling.....                         | 20 |
|         | Table A.3 – Information relevant to balanced cable: fixed cables .....                     | 21 |
|         | Table A.4 – Information relevant to balanced cable: cords .....                            | 22 |
|         | Table A.5 – Remote bus fibre optic cable length .....                                      | 24 |
|         | Table A.6 – Connectors for copper cabling CPs not based on Ethernet.....                   | 25 |
|         | Table A.7 – Optical fibre connecting hardware .....  | 25 |
|         | Table A.8 – Relationship between FOC and fibre types (Type 8 networks).....                | 26 |
|         | Table A.9 – Colour code for balanced cables used by Type 8 networks .....                  | 27 |
|         | Table A.10 – Parameters for balanced cables .....  | 30 |
|         | Table A.11 – Parameters for silica optical fibre cables .....                              | 30 |
|         | Table A.12 – Parameters for POF optical fibre cables .....                                 | 30 |

|  |    |
|--|----|
| Table A.13 – Parameters for hard clad silica optical fibre cables.....               | 31 |
| Table A.14 – Pin assignment of the terminal connector.....                           | 33 |
| Table B.1 – Network characteristics for balanced cabling based on Ethernet .....     | 40 |
| Table B.2 – Network characteristics for optical fibre cabling.....                   | 41 |
| Table B.3 – Information relevant to copper cable: fixed cables.....                  | 42 |
| Table B.4 – Information relevant to copper cable: cords.....                         | 43 |
| Table B.5 – Information relevant to optical fibre cables .....                       | 44 |
| Table B.6 – Connectors for balanced cabling CPs based on Ethernet .....              | 45 |
| Table B.7 – Connectors for copper cabling CPs not based on Ethernet.....             | 45 |
| Table B.8 – Optical fibre connecting hardware .....                                  | 46 |
| Table B.9 – Relationship between FOC and fibre types (CP 6/2 Ethernet network) ..... | 46 |
| Table B.10 – Parameters for balanced cables .....                                    | 48 |
| Table B.11 – Parameters for silica optical fibre cables .....                        | 49 |
| Table B.12 – Parameters for POF optical fibre cables .....                           | 49 |
| Table B.13 – Parameters for hard clad silica optical fibre cables.....               | 49 |

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

---

**INDUSTRIAL COMMUNICATION NETWORKS –  
PROFILES –****Part 5-6: Installation of fieldbuses –  
Installation profiles for CPF 6**

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61784-5-6 has been prepared by subcommittee 65C: Industrial networks, of IEC technical committee 65: Industrial-process measurement, control and automation.

This fourth edition cancels and replaces the third edition published in 2013. This edition constitutes a technical revision.

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

- a) alignment with IEC 61918:2018;
- b) addition of new connectors.

This document is to be used in conjunction with IEC 61918:2018.

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

| FDIS         | Report on voting |
|--------------|------------------|
| 65C/924/FDIS | 65C/925/RVD      |

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

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

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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

**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.**

## INTRODUCTION

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

IEC 61918:2018 provides the common requirements for the installation of communication networks in industrial control systems. This installation profile document provides the installation profiles of the communication profiles (CP) of a specific communication profile family (CPF) by stating which requirements of IEC 61918 fully apply and, where necessary, by supplementing, modifying, or replacing the other requirements (see Figure 1).

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

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

The provision of the installation profiles in one document for each CPF (for example IEC 61784-5-6 for CPF 6), allows readers to work with documents of a convenient size.

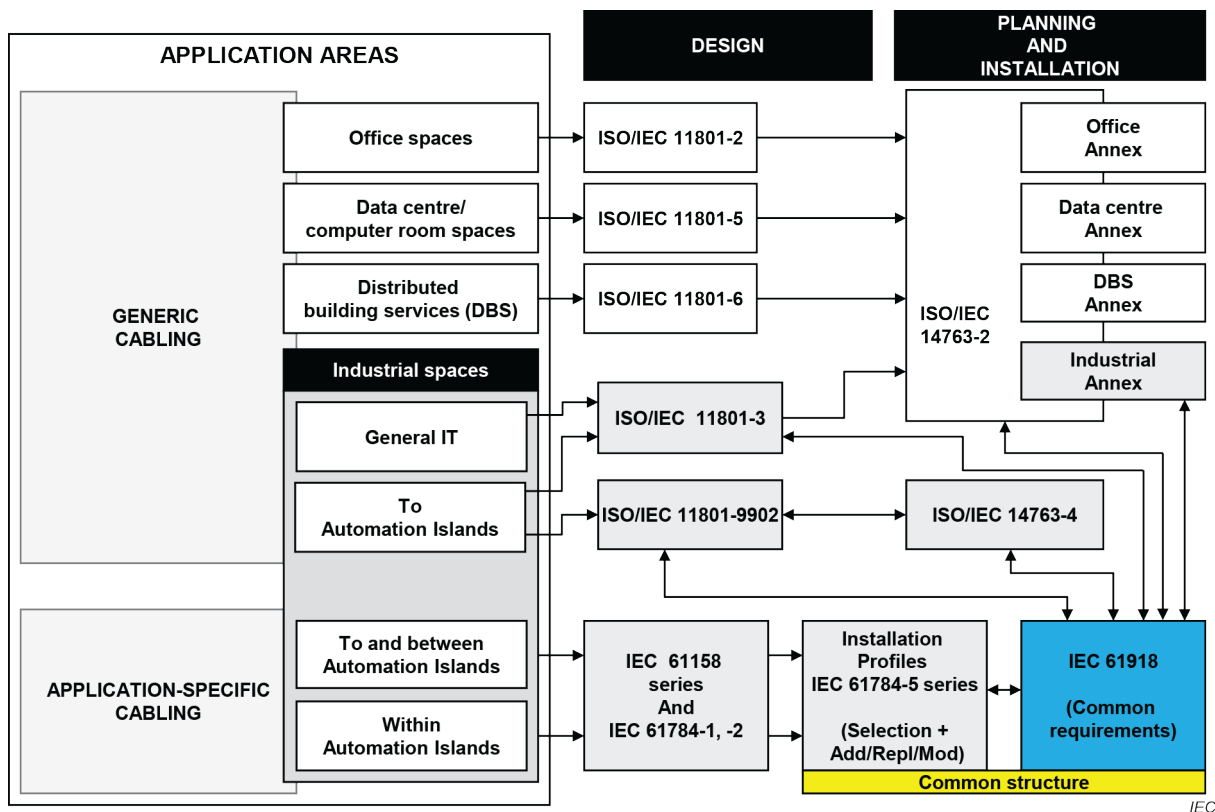


Figure 1 – Standards relationships

## INDUSTRIAL COMMUNICATION NETWORKS – PROFILES –

### Part 5-6: Installation of fieldbuses – Installation profiles for CPF 6

#### 1 Scope

This part of IEC 61784-5 specifies the installation profiles for CPF 6 (INTERBUS)<sup>1</sup>.

The installation profiles are specified in the annexes. These annexes are read in conjunction with IEC 61918:2018.

#### 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 61918:2018, *Industrial communication networks – Installation of communication networks in industrial premises*

The normative references of IEC 61918:2018, Clause 2, apply.

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

#### 3 Terms, definitions and abbreviated terms

For the purposes of this document, the terms, definitions and abbreviated terms given in IEC 61918:2018, Clause 3, apply.

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

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

NOTE For profile specific terms, definitions and abbreviated terms see Clauses A.3 and B.3.

#### 4 CPF 6: Overview of installation profiles

CPF 6 consists of seven communication profiles (see IEC 61784-1:— for CP 6/1, CP 6/2, CP 6/3, see IEC 61784-2:— for CP 6/4, CP 6/5, CP 6/6, see IEC 61784-3-6 for FSCP 6/7).

The CPF 6 Type 8 network (non-Ethernet-based) installation profile is specified in Annex A.

---

<sup>1</sup> INTERBUS is a trade name of INTERBUS Club, an independent organisation of users and vendors of INTERBUS products. 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 INTERBUS. Use of the trade name INTERBUS requires permission of the trade name holder.