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| STN | Priemyselné siete Profily Časť 5-12: Inštalácia prevádzkových zberníc Inštalačné profily pre rad komunikačných profilov CPF 12 | STN EN IEC 61784-5-12 18 4020 |
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Industrial networks - Profiles - Part 5-12: Installation of fieldbuses - Installation profiles for CPF 12

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/24

Obsahuje: EN IEC 61784-5-12:2024, IEC 61784-5-12:2024

Oznámením tejto normy sa od 25.04.2027 ruší
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EN IEC 61784-5-12

May 2024

ICS 25.040.40; 35.100.40

Supersedes EN IEC 61784-5-12:2018

English Version

**Industrial networks - Profiles - Part 5-12: Installation of
fieldbuses - Installation profiles for CPF 12
(IEC 61784-5-12:2024)**

Réseaux industriels - Profils - Partie 5-12: Installation des
bus de terrain - Profils d'installation pour CPF 12
(IEC 61784-5-12:2024)

Industrielle Kommunikationsnetze - Profile - Teil 5-12:
Feldbusinstallation - Installationsprofile für die
Kommunikationsprofilfamilie 12
(IEC 61784-5-12:2024)

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 61784-5-12:2024 (E)**European foreword**

The text of document 65C/1283/FDIS, future edition 3 of IEC 61784-5-12, prepared by SC 65C "Industrial networks" of IEC/TC 65 "Industrial-process measurement, control and automation" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61784-5-12:2024.

The following dates are fixed:

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The text of the International Standard IEC 61784-5-12:2024 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.eu.

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|---|--------------|-------------------|
| IEC 61918 | 2018 | Industrial communication networks - Installation of communication networks in industrial premises | EN IEC 61918 | 2018 ¹ |
| - | - | | + A11 | 2019 |
| - | - | | + A12 | 2023 |
| - | - | | + AC | 2019-03 |
| + AMD1 | 2022 | | + A1 | 2022 |
| + AMD2 | 2024 | | + A2 | 2024 |

¹ The normative references of EN IEC 61918:2018, EN IEC 61918:2018/A11:2019, EN IEC 61918:2018/A12:2023, EN IEC 61918:2018/AC:2019-03, EN IEC 61918:2018/A1:2022, and EN IEC 61918:2018/A2:2024 apply.



IEC 61784-5-12

Edition 3.0 2024-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Industrial networks – Profiles –
Part 5-12: Installation of fieldbuses – Installation profiles for CPF 12**

**Réseaux industriels – Profils –
Partie 5-12: Installation des bus de terrain – Profils d’installation pour CPF 12**



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IEC 61784-5-12

Edition 3.0 2024-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Industrial networks – Profiles –
Part 5-12: Installation of fieldbuses – Installation profiles for CPF 12**

**Réseaux industriels – Profils –
Partie 5-12: Installation des bus de terrain – Profils d'installation pour CPF 12**

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CONTENTS

| | |
|--|----|
| FOREWORD..... | 4 |
| INTRODUCTION..... | 6 |
| 1 Scope..... | 7 |
| 2 Normative references | 7 |
| 3 Terms, definitions and abbreviated terms | 7 |
| 4 CPF 12: Overview of installation profiles | 8 |
| 5 Installation profile conventions..... | 8 |
| 6 Conformance to installation profiles..... | 9 |
| Annex A (normative) CPF 12 (EtherCAT™) specific installation profile..... | 10 |
| A.1 Installation profile scope | 10 |
| A.2 Normative references..... | 10 |
| A.3 Installation profile terms, definitions, and abbreviated terms | 10 |
| A.3.1 Terms and definitions | 10 |
| A.3.2 Abbreviated terms | 10 |
| A.3.3 Conventions for installation profiles | 10 |
| A.4 Installation planning..... | 10 |
| A.4.1 General | 10 |
| A.4.2 Planning requirements..... | 10 |
| A.4.3 Network capabilities..... | 11 |
| A.4.4 Selection and use of cabling components | 13 |
| A.4.5 Cabling planning documentation | 18 |
| A.4.6 Verification of cabling planning specification..... | 18 |
| A.5 Installation implementation..... | 19 |
| A.5.1 General requirements | 19 |
| A.5.2 Cable installation..... | 19 |
| A.5.3 Connector installation | 19 |
| A.5.4 Terminator installation | 19 |
| A.5.5 Device installation | 19 |
| A.5.6 Coding and labelling | 19 |
| A.5.7 Earthing and bonding of equipment and devices and shield cabling..... | 19 |
| A.5.8 As-implemented cabling documentation..... | 19 |
| A.6 Installation verification and installation acceptance test | 20 |
| A.6.1 General | 20 |
| A.6.2 Installation verification | 20 |
| A.6.3 Installation acceptance test | 21 |
| A.7 Installation administration | 21 |
| A.8 Installation maintenance and installation troubleshooting..... | 21 |
| Figure 1 – Standards relationships..... | 6 |
| Table A.1 – Network characteristics for balanced cabling based on Ethernet | 12 |
| Table A.2 – Network characteristics for optical fibre cabling..... | 13 |
| Table A.3 – Information relevant to copper cable: CPF 12 fixed cables | 14 |
| Table A.4 – Information relevant to copper cable: CPF 12 flexible cables..... | 14 |
| Table A.5 – Information relevant to copper cable: CPF 12 special cables..... | 15 |

| | |
|---|----|
| Table A.6 – Information relevant to optical fibre cables: CPF 12 | 16 |
| Table A.7 – Connectors for balanced cabling CPs based on Ethernet | 16 |
| Table A.8 – Optical fibre connecting hardware | 17 |
| Table A.9 – Relationship between FOC and fibre types (CPF 12)..... | 17 |

INTERNATIONAL ELECTROTECHNICAL COMMISSION

INDUSTRIAL NETWORKS – PROFILES –

Part 5-12: Installation of fieldbuses – Installation profiles for CPF 12

FOREWORD

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IEC 61784-5-12 has been prepared by subcommittee 65C: Industrial networks, of IEC technical committee 65: Industrial-process measurement, control and automation. It is an International Standard.

This document is to be used in conjunction with IEC 61918:2018, IEC 61918:2018/AMD1:2022 and IEC 61918/AMD2:2024.

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

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

- a) addition of four pair twisted cables;
- b) the references to CP 12/1 and CP 12/2 are replaced by a CPF 12 reference.

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

| Draft | Report on voting |
|--------------|------------------|
| 65C1283/FDIS | 65C/1297/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.

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, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts of the IEC 61784-5 series, published under the general title *Industrial 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 website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

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INTRODUCTION

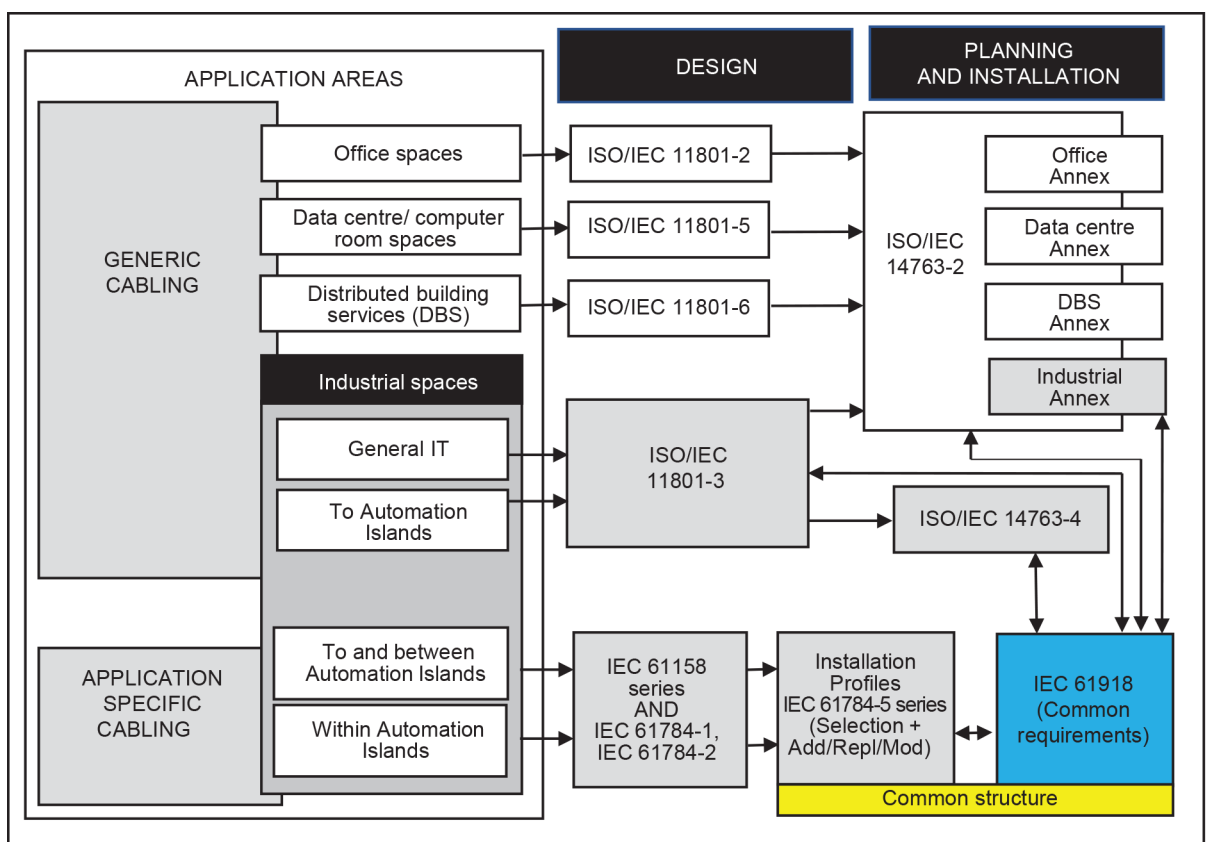
This document is one of a series produced to facilitate the use of communication networks in industrial control systems.

IEC 61918:2018, IEC 61918:2018/AMD1:2022 and IEC 61918/AMD2:2024 provide 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 standard 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 standard for each CPF (for example IEC 61784-5-12 for CPF 12) allows readers to work with standards of a convenient size.



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Figure 1 – Standards relationships

INDUSTRIAL NETWORKS – PROFILES –

Part 5-12: Installation of fieldbuses – Installation profiles for CPF 12

1 Scope

This part of IEC 61784-5 specifies the installation profile for CPF 12 (EtherCAT™¹).

The installation profile is specified in Annex A. This annex is read in conjunction with IEC 61918:2018, IEC 61918:2018/AMD1:2022 and IEC 61918:2018/AMD2:2024.

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 61918:2018², *Industrial communication networks – Installation of communication networks in industrial premises*
IEC 61918:2018/AMD1:2022
IEC 61918:2018/AMD2:2024

NOTE For profile specific normative references, see Clause A.2.

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

¹ EtherCAT™ is a trade name of Beckhoff, Verl. 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 The normative references of IEC 61918:2018, Clause 2, IEC 61918:2018/AMD1:2022, Clause 2 and IEC 61918:2018/AMD2:2024, Clause 2, apply.