

<b>STN</b>	<b>Priemyselné komunikačné siete Profily Časť 5-12: Inštalácia prevádzkových zberníc Inštalačné profily pre rad komunikačných profilov CPF 12</b>	<b>STN EN IEC 61784-5-12</b>  18 4020
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Industrial communication 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. 04/19

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Oznámením tejto normy sa od 04.10.2021 ruší  
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**EN IEC 61784-5-12**

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Supersedes EN 61784-5-12:2012  
Supersedes EN 61784-5-12:2012/A1:2015

English Version

**Industrial communication networks - Profiles - Part 5-12:  
Installation of fieldbuses - Installation profiles for CPF 12  
(IEC 61784-5-12:2018)**Réseaux de communication industriels - Profils - Partie 5-  
12: Installation des bus de terrain - Profils d'installation pour  
CPF 12  
(IEC 61784-5-12:2018)Industrielle Kommunikationsnetze - Profile - Teil 5-12:  
Feldbusinstallation - Installationsprofile für die  
Kommunikationsprofilfamilie 12  
(IEC 61784-5-12:2018)

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**EN IEC 61784-5-12:2018 (E)****European foreword**

The text of document 65C/924/FDIS, future edition 2 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 61784-5-12:2018.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2019-07-04
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2021-10-04

This document supersedes EN 61784-5-12:2012 and EN 61784-5-12:2012/A1:2015.

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## **Annex ZA** (normative)

### **Normative references to international publications with their corresponding European publications**

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.

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.cenelec.eu](http://www.cenelec.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

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

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



IEC 61784-5-12

Edition 2.0 2018-08

# INTERNATIONAL STANDARD



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





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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)

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IEC 61784-5-12

Edition 2.0 2018-08

# INTERNATIONAL STANDARD



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

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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ICS 25.040.40; 35.100.40

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# INTERNATIONAL ELECTROTECHNICAL COMMISSION

## INDUSTRIAL COMMUNICATION NETWORKS – PROFILES –

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

#### FOREWORD

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

This second edition cancels and replaces the first edition published in 2010 and Amendment 1:2015. This edition constitutes a technical revision.

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

- a) addition of connectors (see A.4.4.2.2);
- b) alignment with IEC 61918:2018.

This standard 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.

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## INTRODUCTION

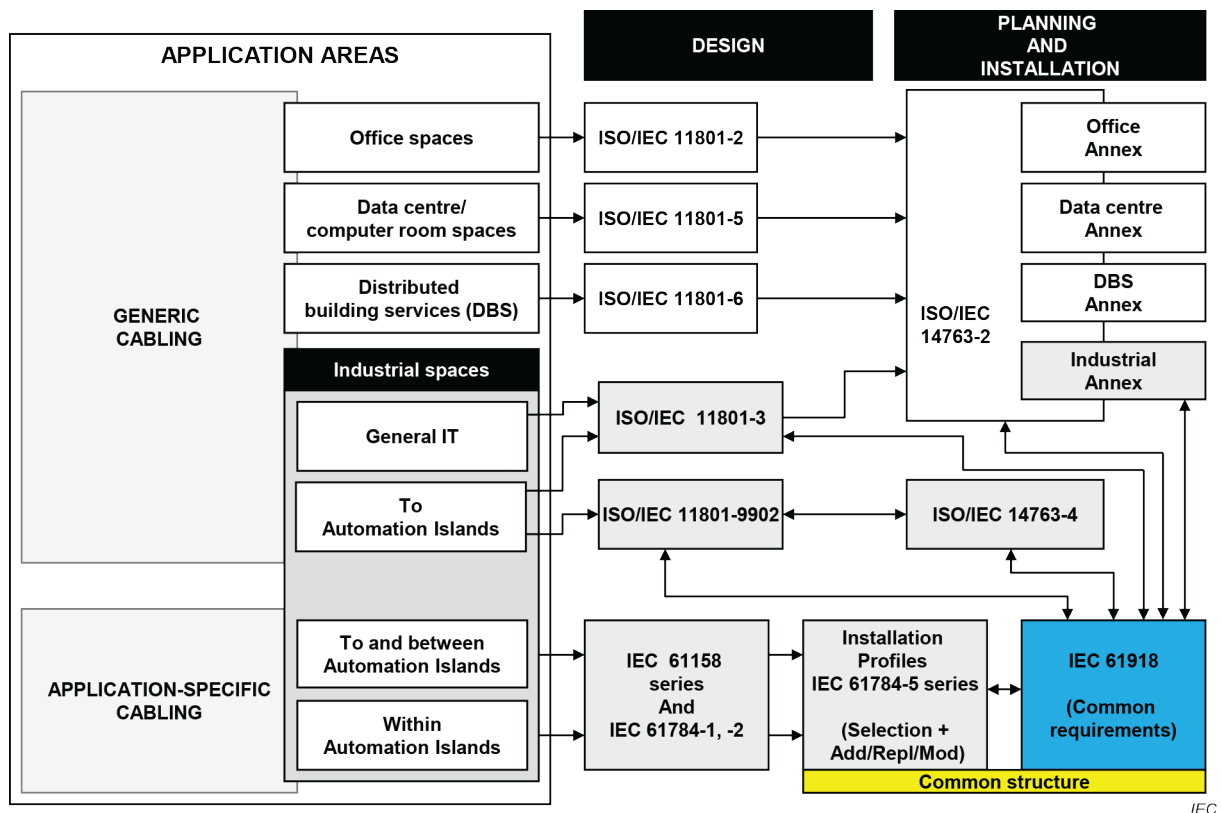
This International Standard is one of a series produced to facilitate the use of communication networks in industrial control systems.

IEC 61918:2018 provides the common requirements for the installation of communication networks in industrial control systems. This installation profile standard 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.



**Figure 1 – Standards relationships**

Attention is drawn to the fact that the document IEC 61918 specifies all the installation requirements that apply to large part of the industrial communication networks and that these requirements automatically apply to each single network with the exception of those requirements that in the relevant document of the IEC 61784-5 series are explicitly defined as modified or replaced.

All the additions to the latest edition of the IEC 61918 apply to the networks of CPF 12.

## INDUSTRIAL COMMUNICATION NETWORKS – PROFILES –

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

#### 1 Scope

This part of IEC 61784 specifies the installation profiles for CPF 12 (EtherCAT™)<sup>1</sup>.

The installation profiles are specified in the annex. This annex is 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.

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**

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<sup>1</sup> 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.