



**NSAI**  
Standards

Irish Standard  
I.S. EN 61784-5-10:2012&A1:2015

# Industrial communication networks - Profiles - Part 5-10: Installation of fieldbuses - Installation profiles for CPF 10

**I.S. EN 61784-5-10:2012&A1:2015**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

EN 61784-5-10:2012/A1:2015

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*This document is based on:*

EN 61784-5-10:2012

*Published:*

2012-04-20

*This document was published under the authority of the NSAI and comes into effect on:*

2015-10-13

ICS number:

NOTE: If blank see CEN/CENELEC cover page

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## National Foreword

I.S. EN 61784-5-10:2012&A1:2015 is the adopted Irish version of the European Document EN 61784-5-10:2012, Industrial communication networks - Profiles - Part 5-10: Installation of fieldbuses - Installation profiles for CPF 10

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
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**EN 61784-5-10:2012/A1**

September 2015

ICS 25.040.40; 35.100.40

English Version

**Industrial communication networks - Profiles -  
Part 5-10: Installation of fieldbuses - Installation profiles for CPF 10  
(IEC 61784-5-10:2010/A1:2015)**

Réseaux de communication industriels - Profils -  
Partie 5-10: Installation des bus de terrain - Profils  
d'installation pour CPF 10  
(IEC 61784-5-10:2010/A1:2015)

Industrielle Kommunikationsnetze - Profile -  
Teil 5-10: Feldbusinstallation - Installationsprofile für die  
Kommunikationsprofilfamilie 10  
(IEC 61784-5-10:2010/A1:2015)

This amendment A1 modifies the European Standard EN 61784-5-10:2012; it was approved by CENELEC on 2015-07-23. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

**EN 61784-5-10:2012/A1:2015**

**European foreword**

The text of document 65C/768/CDV, future IEC 61784-5-10:2010/A1, 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 61784-5-10:2012/A1:2015.

The following dates are fixed:

- latest date by which the document has to be implemented at (dop) 2016-04-23  
national level by publication of an identical national  
standard or by endorsement
- latest date by which the national standards conflicting with (dow) 2018-07-23  
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## Annex ZA (normative)

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

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.

NOTE 1 When 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>
<b><i>Replacement in Annex ZA of EN 61784-5-10:2012:</i></b>				
IEC 61918 (mod)	2013	Industrial communication networks -	EN 61918	2013
-	-	Installation of communication networks in industrial premises	+ AC	2014
<b><i>Addition to Annex ZA of EN 61784-5-10:2012:</i></b>				
IEC 60793-2-50	-	Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single-mode fibres	EN 60793-2-50	-

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61784-5-10**

April 2012

ICS 25.040.40; 35.100.40

Supersedes EN 61784-5-10:2008

English version

**Industrial communication networks -  
Profiles -  
Part 5-10: Installation of fieldbuses -  
Installation profiles for CPF 10  
(IEC 61784-5-10:2010)**

Réseaux de communication industriels -  
Profils -  
Partie 5-10: Installation des bus de terrain  
-  
Profils d'installation pour CPF 10  
(CEI 61784-5-10:2010)

Industrielle Kommunikationsnetze -  
Profile -  
Teil 5-10: Feldbusinstallation -  
Installationsprofile für die  
Kommunikationsprofilfamilie 10  
(IEC 61784-5-10:2010)

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Comité Européen de Normalisation Electrotechnique  
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## Foreword

The text of document 65C/602/FDIS, future edition 2 of IEC 61784-5-10, 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 61784-5-10:2012.

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) 2012-10-20
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2014-10-19

This document supersedes EN 61784-5-10:2008.

This standard is to be used in conjunction with IEC 61918, second edition (2010-07), together with the European Common Modification published with EN 61918:2008.

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IEC/TR 61158-1      NOTE Harmonized as CLC/TR 61158-1.

## **Annex ZA** (normative)

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61918	2010	Industrial communication networks - Installation of communication networks in industrial premises	-	-

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**IEC 61784-5-10**

Edition 2.0 2010-07

# **INTERNATIONAL STANDARD**

## **NORME INTERNATIONALE**



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**Industrial communication networks – Profiles –  
Part 5-10: Installation of fieldbuses – Installation profiles for CPF 10**

**Réseaux de communication industriels – Profils –  
Partie 5-10: Installation de bus de terrain – Profils d'installation pour CPF 10**



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IEC 61784-5-10

Edition 2.0 2010-07

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



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**Industrial communication networks – Profiles –  
Part 5-10: Installation of fieldbuses – Installation profiles for CPF 10**

**Réseaux de communication industriels – Profils –  
Partie 5-10: Installation de bus de terrain – Profils d'installation pour CPF 10**

INTERNATIONAL  
ELECTROTECHNICAL  
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COMMISSION  
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INTERNATIONALE

PRICE CODE  
CODE PRIX

R

ICS 25.040.40; 35.100.40

ISBN 978-2-88912-950-8

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## CONTENTS

FOREWORD .....	3
INTRODUCTION .....	5
1 Scope .....	6
2 Normative references .....	6
3 Terms, definitions and abbreviated terms .....	6
4 CPF 10: Overview of installation profiles .....	6
5 Installation profile conventions .....	6
6 Conformance to installation profiles .....	7
Annex A (normative) CP 10/1 (Vnet/IP™) specific installation profile .....	8
Bibliography .....	19
 Figure 1 – Standards relationships .....	 5
 Table A.1 – Network characteristics for balanced cabling based on Ethernet .....	 10
Table A.2 – Network characteristics for optical fibre cabling .....	10
Table A.3 – Information relevant to copper cable: fixed cables .....	11
Table A.4 – Information relevant to copper cable: cords .....	12
Table A.5 – Information relevant to optical fibre cables .....	12
Table A.6 – Connectors for balanced cabling CPs based on Ethernet .....	13
Table A.7 – Optical fibre connecting hardware .....	14

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### INDUSTRIAL COMMUNICATION NETWORKS – PROFILES –

#### **Part 5-10: Installation of fieldbuses – Installation profiles for CPF 10**

#### FOREWORD

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International Standard IEC 61784-5-10 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 2007. This edition constitutes an editorial revision.

This edition does not include technical changes with respect to the previous edition.

This standard is to be used in conjunction with IEC 61918:2010.



This bilingual version (2012-02) corresponds to the monolingual English version, published in 2010-07.

The text of this standard is based on the following documents:

FDIS	Report on voting
65C/602/FDIS	65C/616/RVD

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

The French version of this standard has not been voted upon.

This publication 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 publication 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 publication. At this date, the publication will be

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

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## INTRODUCTION

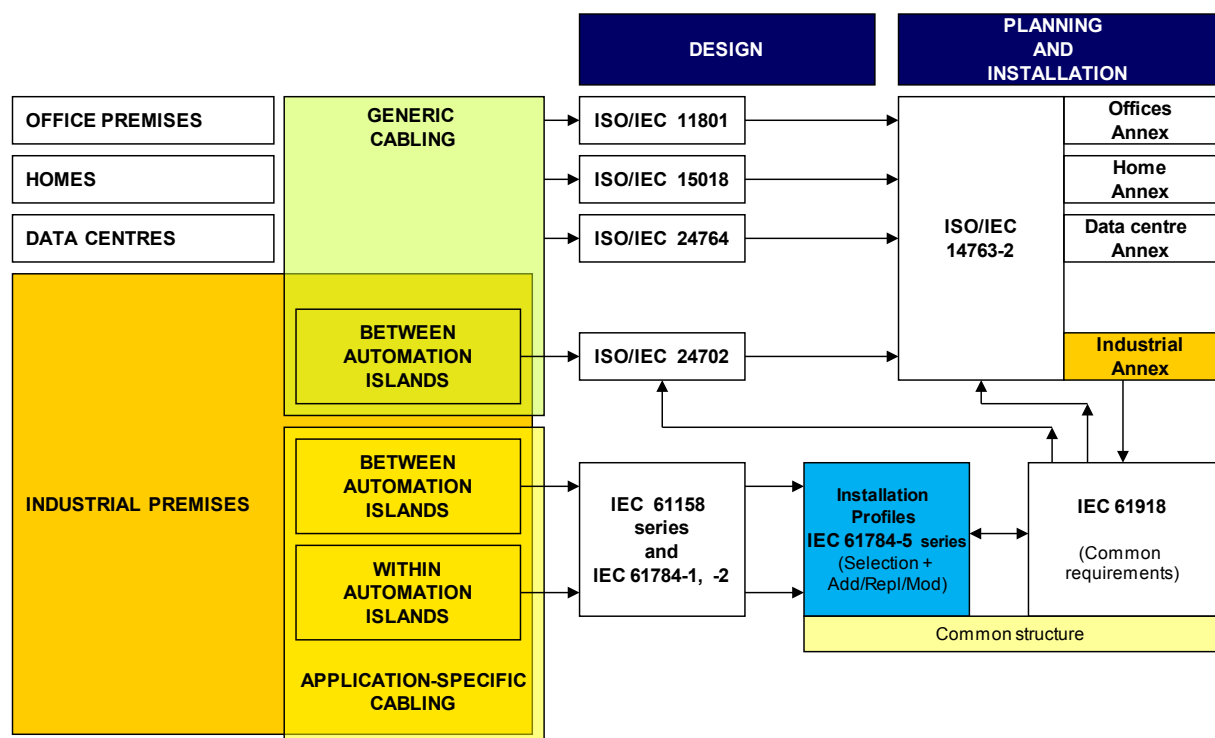
This International Standard is one of a series produced to facilitate the use of communication networks in industrial control systems.

IEC 61918:2010 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 standard, see IEC/TR 61158-1.

Each CP installation profile is specified in a separate annex of this standard. 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 standard are defined in Clause 5.

The provision of the installation profiles in one standard for each CPF (for example IEC 61784-5-10 for CPF 10), allows readers to work with standards of a convenient size.



**Figure 1 – Standards relationships**

## **INDUSTRIAL COMMUNICATION NETWORKS – PROFILES –**

### **Part 5-10: Installation of fieldbuses – Installation profiles for CPF 10**

#### **1 Scope**

This part of IEC 61784 specifies the installation profile for CPF 10 (Vnet/IP™)<sup>1</sup>.

The installation profile is specified in the annex. This annex is read in conjunction with IEC 61918:2010.

#### **2 Normative references**

The following referenced documents are indispensable for the application 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 61918:2010, *Industrial communication networks – Installation of communication networks in industrial premises*

The normative references of IEC 61918:2010, Clause 2, apply.

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

For the purposes of this document, the terms, definitions and abbreviated terms of IEC 61918:2010, Clause 3, apply. For profile specific terms, definitions and abbreviated terms see Clause A.3.

#### **4 CPF 10: Overview of installation profiles**

CPF 10 consists of one communication profile as specified in IEC 61784-2.

The installation requirements for CP 10/1 (Vnet/IP™) are specified in Annex A.

#### **5 Installation profile conventions**

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

The annex clauses and subclauses of this standard supplement, modify, or replace the respective clauses and subclauses in IEC 61918.

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<sup>1</sup> Vnet/IP™ is a trade name of Yokogawa Electric Corporation. This information is given for the convenience of users of this International Standard and does not constitute an endorsement by IEC of the trademark holder or any of its products. Compliance to this standard does not require use of the trade name Vnet/IP™. Use of the trade name Vnet/IP™ requires permission of Yokogawa Electric Corporation.

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