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Industrial communication networks - Profiles - Part 5-14: Installation of fieldbuses - Installation profiles for CPF 14

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

Obsahuje: EN 61784-5-14:2013, IEC 61784-5-14:2013

Oznámením tejto normy sa od 18.10.2016 ruší  
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Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, odbor SÚTN, 2014  
Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

English version

**Industrial communication networks -  
 Profiles -  
 Part 5-14: Installation of fieldbuses -  
 Installation profiles for CPF 14  
 (IEC 61784-5-14:2013)**

Réseaux de communication industriels -  
 Profils -  
 Partie 5-14: Installation des bus de terrain -  
 Profils d'installation pour CPF 14  
 (CEI 61784-5-14:2013)

Industrielle Kommunikationsnetze -  
 Profile -  
 Teil 5-14: Feldbusinstallation -  
 Installationsprofile für die  
 Kommunikationsprofilfamilie 14  
 (IEC 61784-5-14:2013)

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## Foreword

The text of document 65C/738/FDIS, future edition 2 of IEC 61784-5-14, 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 61784-5-14:2013.

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) 2014-07-18
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-10-18

This document supersedes EN 61784-5-14:2012.

IEC 61784-5-14:2013 includes the following significant technical changes with respect to EN 61784-5-14:2012:

- requirements for CP 14/3 have been added;
- recommendations for the applications about the linear/ring topology networks have been added;
- Table A.2 and Table A.6 have been updated.

This standard is to be used in conjunction with EN 61918:2013.

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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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

#### ***Annex ZA of EN 61918:2013 applies, except as follows:***

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
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#### ***Addition to Annex ZA of EN 61918:2013:***

IEC 61918	2013	Industrial communication networks - Installation of communication networks in industrial premises	EN 61918	2013
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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



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**Industrial communication networks – Profiles –  
Part 5-14: Installation of fieldbuses – Installation profiles for CPF 14**

**Réseaux de communication industriels – Profils –  
Partie 5-14: Installation des bus de terrain – Profils d'installation pour CPF 14**





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

Tel.: +41 22 919 02 11  
 Fax: +41 22 919 03 00  
[info@iec.ch](mailto:info@iec.ch)  
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IEC 61784-5-14

Edition 2.0 2013-09

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



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**Industrial communication networks – Profiles –  
Part 5-14: Installation of fieldbuses – Installation profiles for CPF 14**

**Réseaux de communication industriels – Profils –  
Partie 5-14: Installation des bus de terrain – Profils d'installation pour CPF 14**

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# INTERNATIONAL ELECTROTECHNICAL COMMISSION

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## INDUSTRIAL COMMUNICATION NETWORKS – PROFILES –

### Part 5-14: Installation of fieldbuses – Installation profiles for CPF 14

#### FOREWORD

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International Standard IEC 61784-5-14 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 issued in 2010. It constitutes a technical revision.

The main technical changes with regard to the previous edition are as follows:

- requirements for CP 14/3 have been added,
- recommendations for the applications about the linear/ring topology networks have been added,
- Table A.2 and Table A.6 have been updated.

This standard is to be used in conjunction with IEC 61918:2013.

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

FDIS	Report on voting
65C/738/FDIS	65C/743/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.

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

A list of all parts of IEC 61784-5 series, 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 61918:2013 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 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 61784-5-14 for CPF 14), allows readers to work with standards of a convenient size.

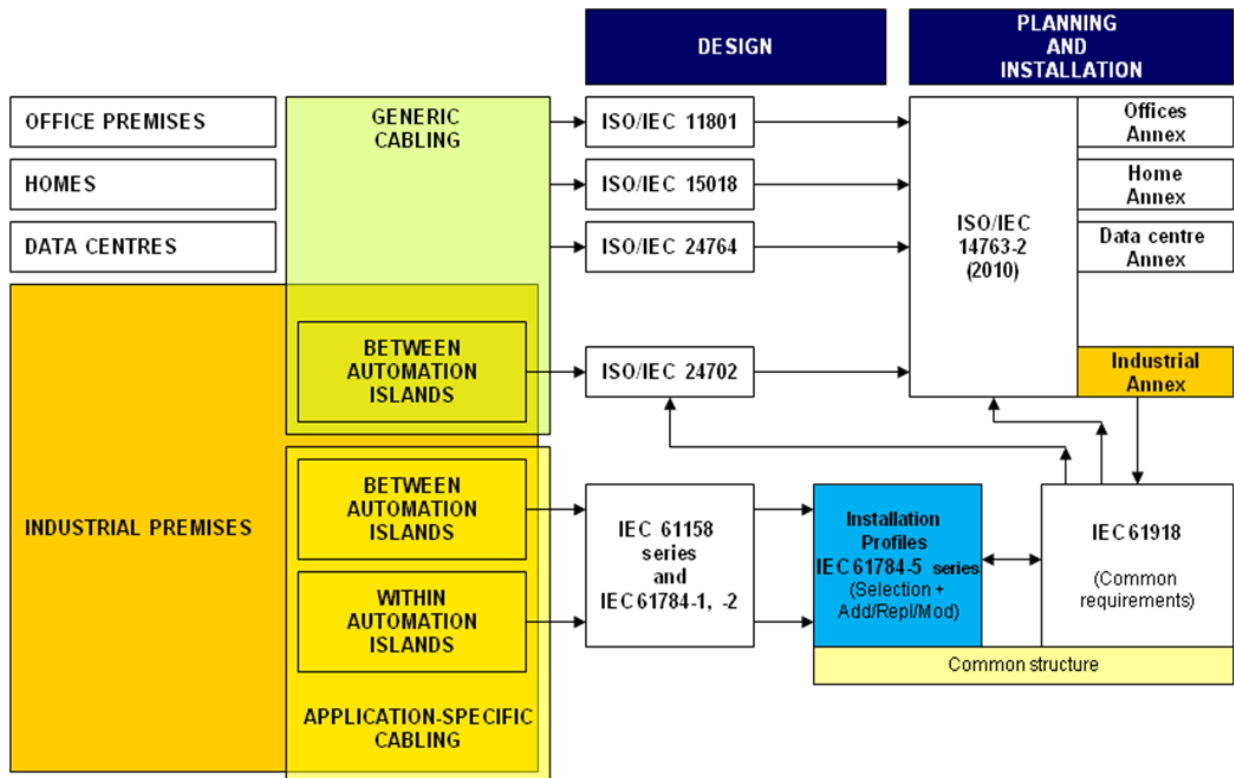


Figure 1 – Standards relationships

## INDUSTRIAL COMMUNICATION NETWORKS – PROFILES –

### Part 5-14: Installation of fieldbuses – Installation profiles for CPF 14

#### 1 Scope

This part of IEC 61784-5 specifies the installation profiles for CPF 14 (EPA1).

The installation profiles are specified in the annex. This annex is read in conjunction with IEC 61918:2013.

#### 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 61918:2013, *Industrial communication networks – Installation of communication networks in industrial premises*

The normative references of IEC 61918:2013, Clause 2, apply.

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

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