

# SLOVENSKI STANDARD

## SIST EN 61784-5-2:2012

01-junij-2012

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SIST EN 61784-5-2:2008

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### Industrijska komunikacijska omrežja - Profili - 5. del: Inštalacija procesnih vodil (IEC 61784-5-2:2010)

Industrial communication networks - Profiles - Part 5: Installation of fieldbuses (IEC 61784-5-2:2010)

Industrielle Kommunikationsnetze - Profile - Teil 5-2: Feldbusinstallation -  
Installationsprofile für die Kommunikationsprofilfamilie 2 (IEC 61784-5-2:2010)

Réseaux de communication industriels - Profils - Partie 5-2: Installation des bus de  
terrain - Profils d'installation pour CPF 2 (CEI 61784-5-2:2010)

**Ta slovenski standard je istoveten z: EN 61784-5-2:2012**

#### **ICS:**

25.040.40	Merjenje in krmiljenje industrijskih postopkov	Industrial process measurement and control
35.100.05	Večslojne uporabniške rešitve	Multilayer applications

**SIST EN 61784-5-2:2012**

**en**

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English version

**Industrial communication networks -  
Profiles -  
Part 5-2: Installation of fieldbuses -  
Installation profiles for CPF 2  
(IEC 61784-5-2:2010)**

Réseaux de communication industriels -  
Profils -  
Partie 5-2: Installation des bus de terrain -  
Profils d'installation pour CPF 2  
(CEI 61784-5-2:2010)

Industrielle Kommunikationsnetze -  
Profile -  
Teil 5-2: Feldbusinstallation -  
Installationsprofile für die  
Kommunikationsprofilfamilie 2  
(IEC 61784-5-2:2010)

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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

## Foreword

The text of document 65C/601/FDIS, future edition 2 of IEC 61784-5-2, 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 61784-5-2:2012.

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 61784-5-2:2008.

EN 61784-5-2:2012 includes the following significant technical changes with respect to EN 61784-5-2:2008:

- updates pertaining to current installation practices;
- addition of new technology that has become recently available;
- errors have been corrected;
- improved alignment with EN 61918.

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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

## Endorsement notice

The text of the International Standard IEC 61784-5-2:2010 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61158 series	NOTE	Harmonized as EN 61158 series.
IEC/TR 61158-1	NOTE	Harmonized as CLC/TR 61158-1.
IEC 62026-3	NOTE	Harmonized as EN 62026-3.

## Annex ZA (normative)

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

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.

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60096-2	1961	Radio-frequency cables - Part 2: Relevant cable specifications	-	-
IEC 60603-7-3	-	Connectors for electronic equipment - Part 7-3: Detail specification for 8-way, shielded, free and fixed connectors, for data transmission with frequencies up to 100 MHz	EN 60603-7-3	-
IEC 60947-5-2	2007	Low-voltage switchgear and controlgear - Part 5-2: Control circuit devices and switching elements - Proximity switches	EN 60947-5-2	2007
IEC 61156-5	-	Multicore and symmetrical pair/quad cables for digital communications - Part 5: Symmetrical pair/quad cables with transmission characteristics up to 1 000 MHz - Horizontal floor wiring - Sectional specification	-	-
IEC 61918	2010	Industrial communication networks - Installation of communication networks in industrial premises	-	-
ISO 11898-1	-	Road vehicles - Controller area network (CAN) - Part 1: Data link layer and physical signalling	-	-
ISO 11898-2	-	Road vehicles - Controller area network (CAN) - Part 2: High-speed medium access unit	-	-
ANSI/TIA/EIA 568- B.1	-	Commercial Building Telecommunications Cabling Standard - Part 1: General requirements	-	-

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IEC 61784-5-2

Edition 2.0 2010-07

# INTERNATIONAL STANDARD

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**Industrial communication networks – Profiles –  
Part 5 2: Installation of fieldbuses – Installation profiles for CPF 2**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**INDUSTRIAL COMMUNICATION NETWORKS –  
PROFILES –**
**Part 5-2: Installation of fieldbuses –  
Installation profiles for CPF 2**

## 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.
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International Standard IEC 61784-5-2 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 a technical revision.

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

- updates pertaining to current installation practices;
- addition of new technology that has become recently available;
- errors have been corrected;
- improved alignment with IEC 61918.

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

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

FDIS	Report on voting
65C/601/FDIS	65C/617/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 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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A bilingual version of this publication may be issued at a later date.

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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 61918:2010 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 61918:2010 for the benefit of the persons representing the roles in the fieldbus installation process as defined in IEC 61918:2010 (planner, installer, verification personnel, validation personnel, maintenance personnel, administration personnel). By reading the installation profile in conjunction with IEC 61918:2010, 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 (e.g. IEC 61784-5-2 for CPF 2), allows readers to work with standards of a convenient size.

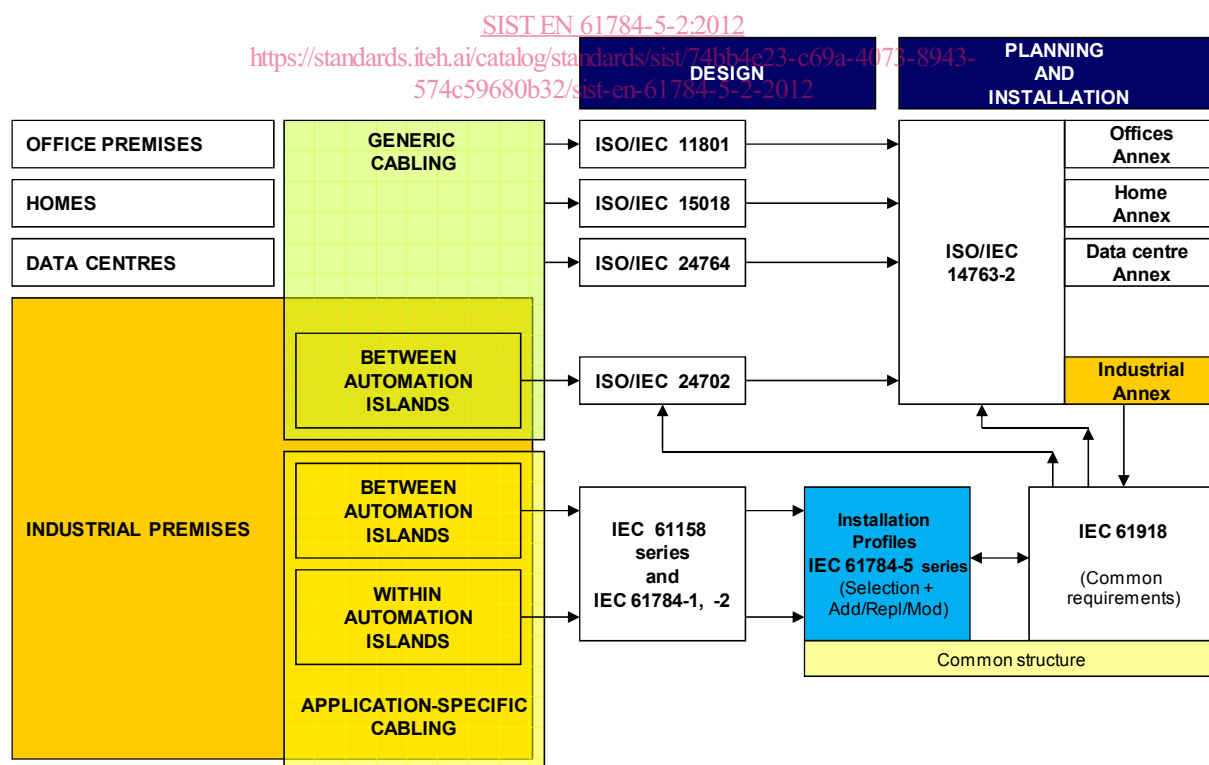


Figure 1 – Standards relationships