



# SLOVENSKI STANDARD SIST EN 61784-5-11:2012

01-junij-2012

Nadomešča:

SIST EN 61784-5-11:2008

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**Industrijska komunikacijska omrežja - Profili - 5-11. del: Inštalacija procesnih vodil  
- Inštalacijski profili za CPF 11 (IEC 61784-5-11:2010)**

Industrial communication networks - Profiles - Part 5-11: Installation of fieldbuses -  
Installation profiles for CPF 11 (IEC 61784-5-11:2010)

Industrielle Kommunikationsnetze - Profile - Teil 5-11: Feldbusinstallation -  
Installationsprofile für die Kommunikationsprofilfamilie 11 (IEC 61784-5-11:2010)

Réseaux de communication industriels - Profils - Partie 5-11: Installation des bus de  
terrain - Profils d'installation pour CPF 11 (IEC 61784-5-11:2010)

**Ta slovenski standard je istoveten z: EN 61784-5-11:2012**

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**ICS:**

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

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61784-5-11**

April 2012

ICS 25.040.40; 35.100.40

Supersedes EN 61784-5-11:2008

English version

**Industrial communication networks -  
Profiles -  
Part 5-11: Installation of fieldbuses -  
Installation profiles for CPF 11  
(IEC 61784-5-11:2010)**

Réseaux de communication industriels -  
Profils -  
Partie 5-11: Installation des bus de terrain  
-  
Profils d'installation pour CPF 11  
(CEI 61784-5-11:2010)

Industrielle Kommunikationsnetze -  
Profile -  
Teil 5-11: Feldbusinstallation -  
Installationsprofile für die  
Kommunikationsprofilfamilie 11  
(IEC 61784-5-11:2010)

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**CENELEC**

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/602/FDIS, future edition 2 of IEC 61784-5-11, 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 61784-5-11:2012.

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 61784-5-11:2008.

EN 61784-5-11:2012 includes the following significant technical changes with respect to EN 61784-5-11:2008:

- Addition of a new Annex B 8 (normative).

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.

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## Endorsement notice

The text of the International Standard IEC 61784-5-11:2010 was approved by CENELEC as a European Standard without any modification.

## 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 61754-18	2001	Fibre optic connector interfaces - Part 18: Type MT-RJ connector family	EN 61754-18 + corr. April	2002 2002
IEC 61918	2010	Industrial communication networks - Installation of communication networks in industrial premises	-	-

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IEC 61784-5-11

Edition 2.0 2010-07

# INTERNATIONAL STANDARD



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**Industrial communication networks – Profiles –  
Part 5-11: Installation of fieldbuses – Installation profiles for CPF 11**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**INDUSTRIAL COMMUNICATION NETWORKS –  
PROFILES –**
**Part 5-11: Installation of fieldbuses –  
Installation profiles for CPF 11**

## FOREWORD

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International Standard IEC 61784-5-11 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:

- Addition of a new Annex B 8 (normative).

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/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.

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 communications 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 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 61784-5-11 for CPF 11), allows readers to work with standards of a convenient size.

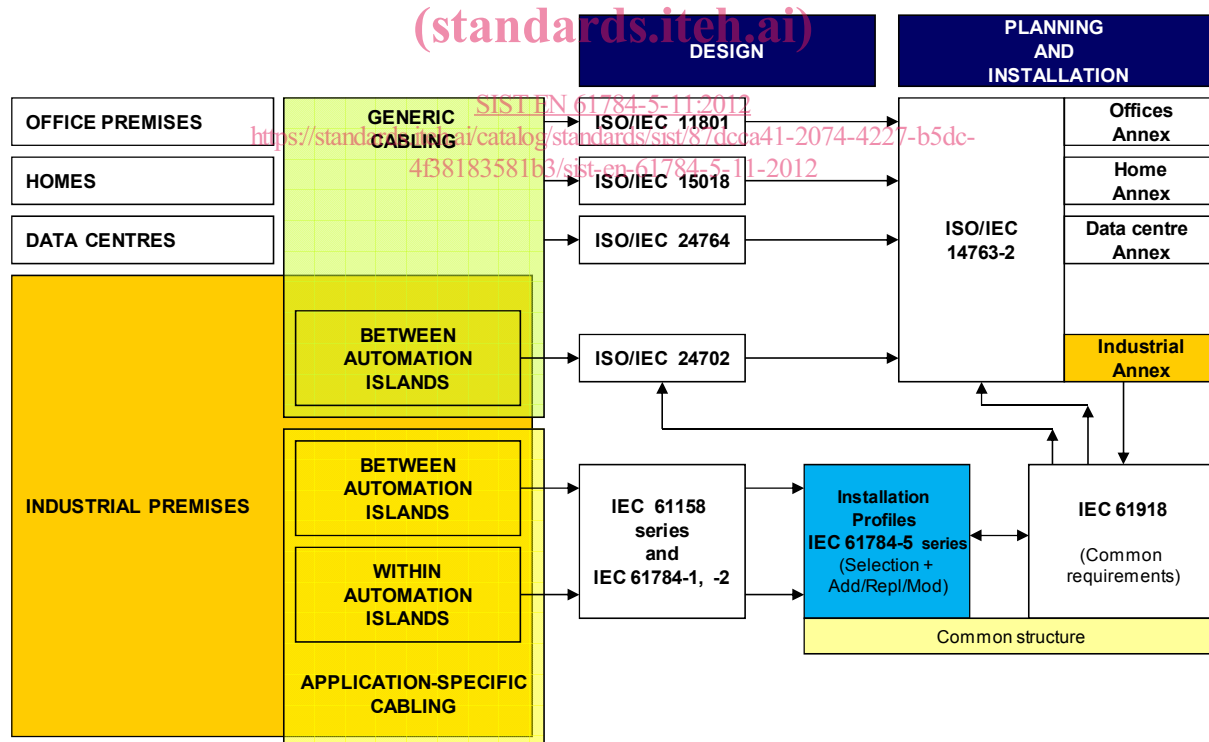


Figure 1 – Standards relationships

## INDUSTRIAL COMMUNICATION NETWORKS – PROFILES –

### Part 5-11: Installation of fieldbuses – Installation profiles for CPF 11

#### 1 Scope

This part of IEC 61784 specifies the installation profiles for CPF 11 (TCnet<sup>1</sup>).

The installation profiles are specified in the annexes. These annexes are 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*

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The normative references of IEC 61918:2010, Clause 2, apply. For profile specific normative references see Clause A.2.

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#### 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.

#### 4 CPF 11: Overview of installation profiles

CPF 11 consists of two communication profiles as specified in IEC 61784-2.

The installation requirements for CP 11/1 are specified in Annex A.

The installation requirements for CP 11/2 are specified in Annex B.

#### 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> TCnet is the technology name of the CPF11. TCnet is the trade name of TOSHIBA corporation, if used in Japan. 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 profile does not require use of the trade name. Use of the trade name requires permission of the trade name holder.