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Industrial networks - Profiles - Part 5-19: Installation of fieldbuses - Installation profiles for CPF 19

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. 07/24

Obsahuje: EN IEC 61784-5-19:2024, IEC 61784-5-19:2024

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NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 61784-5-19

May 2024

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Supersedes EN 61784-5-19:2013

English Version

**Industrial networks - Profiles - Part 5-19: Installation of
fieldbuses - Installation profiles for CPF 19
(IEC 61784-5-19:2024)**

Réseaux industriels - Profils - Partie 5-19: Installation des
bus de terrain - Profils d'installation pour CPF 19
(IEC 61784-5-19:2024)

Industrielle Kommunikationsnetze - Profile - Teil 5-19:
Feldbusinstallation - Installationsprofile für die
Kommunikationsprofilfamilie 19
(IEC 61784-5-19:2024)

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EN IEC 61784-5-19:2024 (E)**European foreword**

The text of document 65C/1281/FDIS, future edition 2 of IEC 61784-5-19, 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 61784-5-19:2024.

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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.

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| <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 ¹ |
| - | - | | + A11 | 2019 |
| - | - | | + A12 | 2023 |
| - | - | | + AC | 2019-03 |
| + AMD1 | 2022 | | + A1 | 2022 |
| + AMD2 | 2024 | | + A2 | 2024 |

¹ The normative references of EN IEC 61918:2018, EN IEC 61918:2018/A11:2019, EN IEC 61918:2018/A12:2023, EN IEC 61918:2018/AC:2019-03, EN IEC 61918:2018/A1:2022, and EN IEC 61918:2018/A2:2024 apply.



IEC 61784-5-19

Edition 2.0 2024-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Industrial networks – Profiles –
Part 5-19: Installation of fieldbuses – Installation profiles for CPF 19**

**Réseaux industriels – Profils –
Partie 5-19: Installation des bus de terrain – Profils d'installation pour CPF 19**



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IEC 61784-5-19

Edition 2.0 2024-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Industrial networks – Profiles –
Part 5-19: Installation of fieldbuses – Installation profiles for CPF 19**

**Réseaux industriels – Profils –
Partie 5-19: Installation des bus de terrain – Profils d'installation pour CPF 19**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**INDUSTRIAL NETWORKS –
PROFILES –****Part 5-19: Installation of fieldbuses –
Installation profiles for CPF 19****FOREWORD**

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This document is to be used in conjunction with IEC 61918:2018, IEC 61918:2018/AMD1:2022 and IEC 61918:2018/AMD2:2024.

This second edition cancels and replaces the first edition published in 2013. This edition constitutes a technical revision.

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

- a) addition of new installation profiles CP19/3 and CP19/4 in Clause 4;
- b) In Annex B, Table B.4 has been changed and Figure B.1 and Figure B.2 have been deleted;
- c) Annex C is new installation profiles for CP19/3 and related references have been added;
- d) Annex D is new installation profiles for CP19/4 and related references have been added.

The text of this International Standard is based on the following documents:

| Draft | Report on voting |
|---------------|------------------|
| 65C/1281/FDIS | 65C/1296/RVD |

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts of IEC 61784-5 series, published under the general title *Industrial networks – Profiles – Installation of fieldbuses*, can be found on the IEC website.

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INTRODUCTION

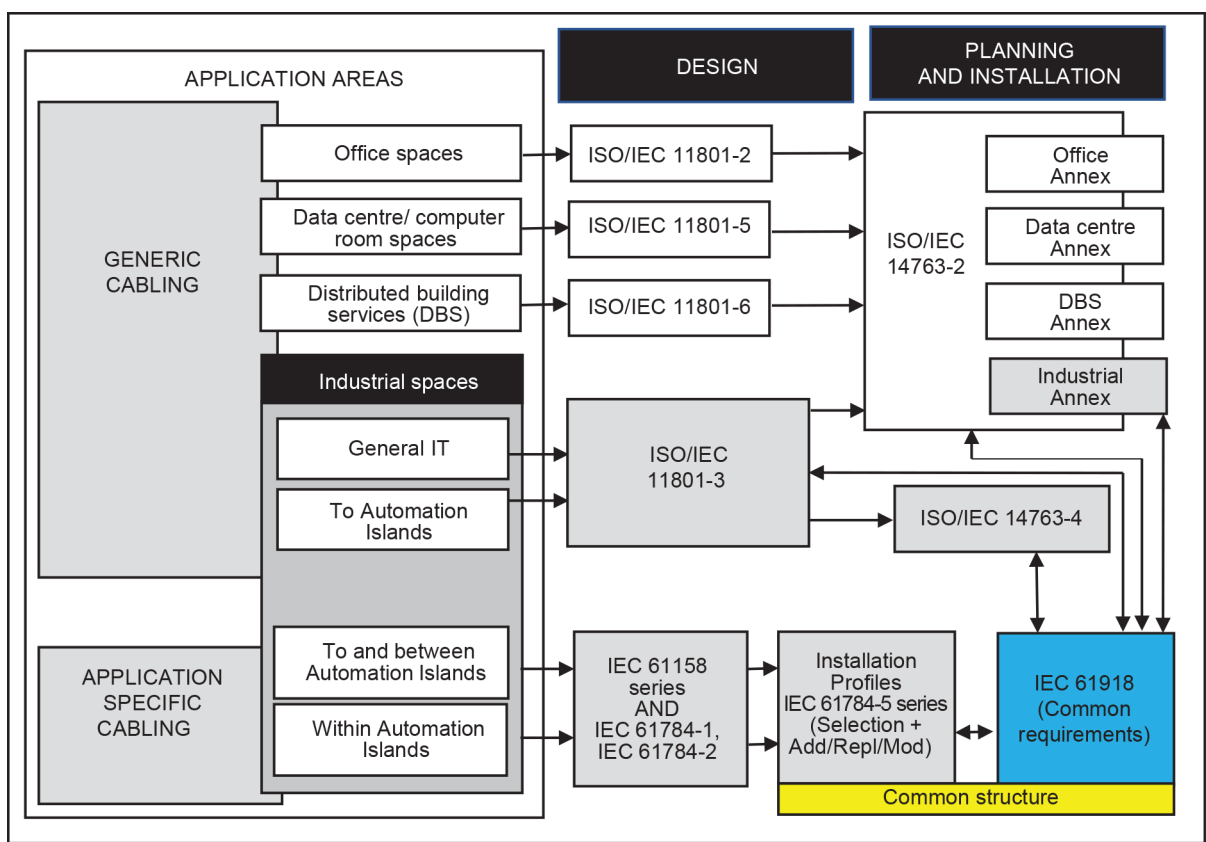
This document is one of a series produced to facilitate the use of communication networks in industrial control systems.

IEC 61918:2018 and IEC 61918:2018/AMD1:2022 and IEC 61918/AMD2:2024 provide 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 61784-5-19 for CPF 19) allows readers to work with standards of a convenient size.



IEC

Figure 1 – Standards relationships

INDUSTRIAL NETWORKS – PROFILES –

Part 5-19: Installation of fieldbuses – Installation profiles for CPF 19

1 Scope

This part of IEC 61784-5 specifies the installation profile for CPF 19 (MECHATROLINKTM¹).

The installation profiles are specified in the annexes. These annexes are read in conjunction with IEC 61918:2018, IEC 61918:2018/AMD1:2022 and IEC 61918:2018/AMD2:2024.

2 Normative references

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.

IEC 61918:2018², *Industrial communication networks – Installation of communication networks in industrial premises*
IEC 61918:2018/AMD1:2022
IEC 61918:2018/AMD2:2024

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

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

¹ MECHATROLINKTM and Σ -LINKTM II are trade names of YASKAWA ELECTRIC CORPORATION. This information is given for the convenience of users of this document and does not constitute an endorsement by IEC of the trade names holder or any of its products. Compliance to this profile does not require use of the trade names. Use of the trade name requires permission of the trade name holder.

² The normative references of IEC 61918:2018, Clause 2, IEC 61918:2018/AMD1:2022, Clause 2 and IEC 61918:2018/AMD2:2024, Clause 2, apply.