



SLOVENSKI STANDARD
SIST EN IEC 61918:2019/A2:2024
01-september-2024

Industrijska komunikacijska omrežja - Inštalacija komunikacijskih omrežij v industrijskih okoljih - Dopnilo A2 (IEC 61918:2018/AMD2:2024)

Amendment 2 - Industrial communication networks - Installation of communication networks in industrial premises (IEC 61918:2018/AMD2:2024)

Industrielle Kommunikationsnetze - Installation von Kommunikationsnetzen in Industrieanlagen (IEC 61918:2018/AMD2:2024)

Amendement 2 - Réseaux de communication industriels - Installation de réseaux de communication dans des locaux industriels (IEC 61918:2018/AMD2:2024)

Ta slovenski standard je istoveten z: EN IEC 61918:2018/A2:2024

[SIST EN IEC 61918:2019/A2:2024](http://standards.slovenski-standard.si/standards/sist/61918:2019/A2:2024)

<http://standards.slovenski-standard.si/standards/sist/61918:2019/A2:2024>

ICS:

| | | |
|-----------|--|--|
| 25.040.40 | Merjenje in krmiljenje industrijskih postopkov | Industrial process measurement and control |
| 35.110 | Omreževanje | Networking |

SIST EN IEC 61918:2019/A2:2024 **en,fr,de**

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 61918:2018/A2

April 2024

ICS 25.040.40; 33.020; 35.240.50

English Version

**Industrial communication networks - Installation of
communication networks in industrial premises
(IEC 61918:2018/AMD2:2024)**

Réseaux de communication industriels - Installation de
réseaux de communication dans des locaux industriels
(IEC 61918:2018/AMD2:2024)

Industrielle Kommunikationsnetze - Installation von
Kommunikationsnetzen in Industrieanlagen
(IEC 61918:2018/AMD2:2024)

This amendment A2 modifies the European Standard EN IEC 61918:2018; it was approved by CENELEC on 2024-04-19. 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.

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.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 61918:2018/A2:2024 (E)

European foreword

The text of document 65C/1282/FDIS, future IEC 61918/AMD2, 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 61918:2018/A2:2024.

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) 2025-01-19
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2027-04-19

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

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 61918:2018/AMD2:2024 was approved by CENELEC as a European Standard without any modification.

[SIST EN IEC 61918:2019/A2:2024](https://standards.iteh.ai/catalog/standards/sist/f855a324-73b6-4262-8f78-3ab74d965d5b/sist-en-iec-61918-2019-a2-2024)

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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.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.eu.

The Annex ZA of EN IEC 61918:2018 applies with the following changes:

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--|-------------|---|--------------------|-------------|
| <i>Delete the following reference:</i> | | | | |
| IEC 60603 | series | Connectors for electronic equipment | EN 60603 | series |
| <i>Add the following new references:</i> | | | | |
| IEC 61076-2-104 | - | Connectors for electronic equipment - Product requirements - Part 2-104: Circular connectors - Detail specification for circular connectors with M8 screw-locking or snap-locking | EN 61076-2-104 | - |
| IEC 61076-2-114 | - | Connectors for electrical and electronic equipment - Product requirements - Part 2-114: Circular connectors - Detail specification for connectors with M8 screw-locking with power contacts and signal contacts for data transmission up to 100 MHz | EN IEC 61076-2-114 | - |
| IEC 61076-3-122 | - | Connectors for electrical and electronic equipment - Product requirements - Part 3-122: Detail specification for 8-way, shielded, free and fixed connectors for I/O and data transmission with frequencies up to 500 MHz and current-carrying capacity in industrial environments | EN IEC 61076-3-122 | - |
| IEC 61076-3-124 | - | Connectors for electrical and electronic equipment - Product requirements - Part 3-124: Rectangular connectors - Detail specification for 10-way, shielded, free and fixed connectors for I/O and data transmission with frequencies up to 500 MHz | EN IEC 61076-3-124 | - |

EN IEC 61918:2018/A2:2024 (E)

| | | | | |
|--------------|------|--|---|---|
| IEC 61156-13 | 2023 | Multicore and symmetrical pair/quad cables for digital communications - Part 13: Symmetrical single pair cables with transmission characteristics up to 20 MHz - Horizontal floor wiring - Sectional specification | - | - |
|--------------|------|--|---|---|

Replace the existing reference to IEC 61158-2:2014 with the following new reference:

| | | | | |
|-------------|------|---|----------------|------|
| IEC 61158-2 | 2023 | Industrial communication networks - Fieldbus specifications - Part 2: Physical layer specification and service definition | EN IEC 61158-2 | 2023 |
|-------------|------|---|----------------|------|

Replace the existing reference to IEC 61784-1:— with the following new reference:

| | | | | |
|---------------|---|--|------------------|---|
| IEC 61784-1-x | - | Industrial networks - Profiles - Part 1-x: Fieldbus profiles | EN IEC 61784-1-x | - |
|---------------|---|--|------------------|---|

Replace the existing reference to IEC 61784-2:— with the following new reference

| | | | | |
|---------------|---|--|------------------|---|
| IEC 61784-2-x | - | Industrial networks - Profiles - Part 2-x: Additional real-time fieldbus profiles based on ISO/IEC/IEEE 8802-3 | EN IEC 61784-2-x | - |
|---------------|---|--|------------------|---|

Add the following new references:

| | | | | |
|-------------|------|--|---|---|
| IEC 63171-2 | 2021 | Connectors for electrical and electronic equipment - Part 2: Detail specification for 2-way, shielded or unshielded, free and fixed connectors: mechanical mating information, pin assignment and additional requirements for type 2 | - | - |
|-------------|------|--|---|---|

| | | | | |
|-------------|------|---|----------------|------|
| IEC 63171-5 | 2022 | Connectors for electrical and electronic equipment - Part 5: Detail specification for 2-way M8 and M12 circular connectors, shielded or unshielded, free and fixed - Mechanical mating information, pin assignment and additional requirements for Type 5 | EN IEC 63171-5 | 2022 |
|-------------|------|---|----------------|------|

Delete the following reference:

| | | | | |
|----------------------------|--|---|---|---|
| ISO/IEC TR 11801-2017 9902 | | Information technology - Generic cabling for customer premises - Part 9902: Specifications for End-to-end link configurations | - | - |
|----------------------------|--|---|---|---|

Replace the existing references to ISO/IEC 14763-2:2012 and ISO/IEC 14763-2:2012/AMD1:2015 with the following new reference:

| | | | | |
|-----------------|------|--|---|---|
| ISO/IEC 14763-2 | 2019 | Information technology - Implementation and operation of customer premises cabling - Part 2: Planning and installation | - | - |
|-----------------|------|--|---|---|

EN IEC 61918:2018/A2:2024 (E)

Replace the existing references to ISO/IEC 14763-3:2014 with the following new reference:

| | | | | |
|-----------------|------|---|---|---|
| ISO/IEC 14763-3 | 2014 | Information technology - Implementation and operation of customer premises cabling - Part 3: Testing of optical fibre cabling | - | - |
| AMD1 | 2018 | | - | - |

Replace the existing references to ISO/IEC 14763-4:2018 with the following new reference:

| | | | | |
|-----------------|------|--|---|---|
| ISO/IEC 14763-4 | 2021 | Information technology - Implementation and operation of customer premises cabling - Part 4: Measurement of end-to-end (E2E)-Links, modular plug terminated links (MPTL) and direct attach cabling | - | - |
|-----------------|------|--|---|---|

Add the following new reference:

| | | | | |
|------------------|------|--|---|---|
| ISO/IEC TS 29125 | 2017 | Information Technology - Telecommunications cabling requirements for remote powering of terminal equipment | - | - |
| AMD1 | 2020 | | | |

Replace the existing reference to IEEE Std 802.3-2015 and the reference to IEEE Std 802.3cg added by IEC 61918:2018/AMD1:2022 with the following new reference and notes:

| | | | | |
|----------------|------|---|---|---|
| IEEE Std 802.3 | 2022 | IEEE Standard for Ethernet | - | - |
| NOTE 1 | | The contents of IEEE Std 802.3cg have been integrated in IEEE Std 802.3-2022, Clause 146. | | |
| NOTE 2 | | Physical Layer specifications for 100BASE-T1 and 1000BASE-T1 are provided in IEEE Std 802.3-2022, Clause 96 and Clause 97 respectively. | | |

<https://standards.iteh.ai/catalog/standards/sist/f855a324-73b6-4262-8f78-3ab74d965d5b/sist-en-iec-61918-2019-a2-2024>



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INTERNATIONAL STANDARD

NORME INTERNATIONALE



AMENDMENT 2
AMENDEMENT 2

Industrial communication networks – Installation of communication networks in industrial premises

Réseaux de communication industriels – Installation de réseaux de communication dans des locaux industriels

[SIST EN IEC 61918:2019/A2:2024](https://standards.iteh.ai/catalog/standards/sist/f855a324-73b6-4262-8f78-3ab74d965d5b/sist-en-iec-61918-2019-a2-2024)

<https://standards.iteh.ai/catalog/standards/sist/f855a324-73b6-4262-8f78-3ab74d965d5b/sist-en-iec-61918-2019-a2-2024>

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ICS 25.040.40, 33.020, 35.240.50

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**INDUSTRIAL COMMUNICATION NETWORKS – INSTALLATION
OF COMMUNICATION NETWORKS IN INDUSTRIAL PREMISES****AMENDMENT 2****FOREWORD**

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Amendment 2 to IEC 61918:2018 and to IEC 61918:2018/AMD1:2022 has been prepared by subcommittee 65C: Industrial networks, of IEC technical committee 65: Industrial-process measurement, control and automation.

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

| | |
|---------------|------------------|
| Draft | Report on voting |
| 65C/1282/FDIS | 65C/1290/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 Amendment is English.