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Nadomešča:

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Industrijska komunikacijska omrežja - Inštalacija komunikacijskih omrežij v industrijskih okoljih (IEC 61918:2018)

Industrial communication networks - Installation of communication networks in industrial premises (IEC 61918:2018)

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Industrielle Kommunikationsnetze - 1 Installation von Kommunikationsnetzen in Industrieanlagen (IEC 61918:2018)

SIST EN IEC 61918:2019

Réseaux de communication industriels - 1 Installation de réseaux de communication dans des locaux industriels (IEC 61918:2018)

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ICS:

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35.110	Omreževanje	Networking

SIST EN IEC 61918:2019

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EUROPEAN STANDARD

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NORME EUROPÉENNE

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

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

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

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European Committee for Electrotechnical Standardization
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Europäisches Komitee für Elektrotechnische Normung

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

EN IEC 61918:2018 (E)**European foreword**

The text of document 65C/928/FDIS, future edition 4 of IEC 61918, 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.

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) 2019-07-25
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2021-10-25

This document supersedes EN 61918:2013.

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The text of the International Standard IEC 61918:2018 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 60060-1	NOTE	Harmonized as EN 60060-1
IEC 60079-11:2011	NOTE	Harmonized as EN 60079-11:2012 (not modified)
IEC 60079-14	NOTE	Harmonized as EN 60079-14
IEC 60228	NOTE	Harmonized as EN 60228
IEC 60332-1 (series)	NOTE	Harmonised as EN 60332-1 (series)
IEC 60364 (series)	NOTE	Harmonised as HD 60364 (series)
IEC 60512-4 (series)	NOTE	Harmonised as EN 60512-4 (series)
IEC 60529	NOTE	Harmonized as EN 60529
IEC 60664-1	NOTE	Harmonized as EN 60664-1

IEC 60670-1:2015	NOTE	Harmonized as EN IEC 60670-1:— ¹ (not modified)
IEC 60950-21	NOTE	Harmonized as EN 60950-21
IEC 61000-4-4	NOTE	Harmonized as EN 61000-4-4
IEC 61000-6-2	NOTE	Harmonized as EN 61000-6-2
IEC 61000-6-4	NOTE	Harmonized as EN 61000-6-4
IEC 61010-2-201	NOTE	Harmonized as EN IEC 61010-2-201
IEC 61131-2:2017	NOTE	Harmonized as EN 61131-2:— ² (not modified)
IEC 61158-1	NOTE	Harmonized as EN 61158-1
IEC 61508-4	NOTE	Harmonized as EN 61508-4
IEC 61984:2008	NOTE	Harmonized as EN 61984:2009 (not modified)
IEC 62026-3	NOTE	Harmonized as EN 62026-3

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¹ Under preparation. Stage at the time of publication: prEN IEC 60670-1

² Under preparation. Stage at the time of publication: FprEN 61131-2:2017

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.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60364-1 (mod)	2005	Low-voltage electrical installations - Part 1: Fundamental principles, assessment of general characteristics, definitions	HD 60364-1	2008
-	-		+ A11	2017
IEC 60364-4-41	-	Low-voltage electrical installations - Part 4-41: Protection for safety - Protection against electric shock	HD 60364-4-41	-
IEC 60364-4-44	-	Low-voltage electrical installations - Part 4-44: Protection for safety - Protection against voltage disturbances and electromagnetic disturbances	HD 60364-4-442	-
IEC 60364-5-54	-	Low-voltage electrical installations - Part 5-54: Selection and erection of electrical equipment - Earthing arrangements and protective conductors	HD 60364-5-54	-
IEC 60512-29-100	-	Connectors for electronic equipment - Tests and measurements - Part 29-100: Signal integrity tests up to 500 MHz on M12 style connectors - Tests 29a to 29g	EN 60512-29-100	-
IEC 60603	series	Connectors for frequencies below 3 MHz for use with printed boards	-	series
IEC 60603-7	series	Connectors for electronic equipment - Part 7: Detail specification for 8-way, shielded, free and fixed connectors	EN 60603-7	series
IEC 60757	-	Code for designation of colours	HD 457 S1	-
IEC 60793	series	Optical fibres	-	series
IEC 60793-2-10	-	Optical fibres - Part 2-10: Product specifications - Sectional specification for category A1 multimode fibres	EN 60793-2-10	-

IEC 60794	series	Optical fibres cables	EN 60794	series
IEC 60807-2	-	Rectangular connectors for frequencies below 3 MHz - Part 2: Detail specification for a range of connectors, with assessed quality, with trapezoidal shaped metal shells and round contacts - Fixed solder contact types	-	-
IEC 60807-3	-	Rectangular connectors for frequencies below 3 MHz - Part 3: Detail specification for a range of connectors with trapezoidal shaped metal shells and round contacts - Removable crimp contact types with closed crimp barrels, rear insertion/rear extraction	-	-
IEC 60825-2	-	Safety of laser products - Part 2: Safety of optical fibre communication systems (OFCS)	EN 60825-2	-
IEC 60950-1	-	Information technology equipment - Safety - Part 1: General requirements	EN 60950-1	-
IEC 61076-2-101	-	Connectors for electronic equipment - Product requirements - Part 2-101: Circular connectors - Detail specification for M12 connectors with screw-locking	EN 61076-2-101	-
IEC 61076-2-109	-	Connectors for electronic equipment - Product requirements - Part 2-109: Circular connectors - Detail specification for connectors with M 12 x 1 screw-locking, for data transmission frequencies up to 500 MHz	EN 61076-2-109	-
IEC 61076-3-106	-	Connectors for electronic equipment - Product requirements - Part 3-106: Rectangular connectors - Detail specification for protective housings for use with 8-way shielded and unshielded connectors for industrial environments incorporating the IEC 60603-7 series interface	EN 61076-3-106	-
IEC 61076-3-117	-	Connectors for electronic equipment - Product requirements - Part 3-117: Rectangular connectors - Detail specification for protective housings for use with 8-way shielded and unshielded connectors for industrial environments incorporating the IEC 60603-7 series interface - Variant 14 related to IEC 61076-3-106 - Push-pull coupling	EN 61076-3-117	-
IEC 61156	series	Multicore and symmetrical pair/quad cables for digital communications	-	-
IEC 61158	series	Industrial communication networks - Fieldbus specifications	EN 61158	series
IEC 61158-2	2014	Industrial communication networks - Fieldbus specifications - Part 2: Physical layer specification and service definition	EN 61158-2	2014
IEC 61169-8	-	Radio-frequency connectors - Part 8: Sectional specification - RF coaxial connectors with inner diameter of outer conductor 6,5 mm (0,256 in) with bayonet lock - Characteristic impedance 50 ohms (type BNC)	EN 61169-8	-

EN IEC 61918:2018 (E)

IEC 61753	series	Fibre optic interconnecting devices and passive components - Performance standard	EN 61753	series
IEC 61753-1	-	Fibre optic interconnecting devices and passive components - Performance standard - Part 1: General and guidance	EN IEC 61753-1	-
IEC 61753-1-3	-	Fibre optic interconnecting devices and passive components - Performance standard - Part 1-3: General and guidance for single-mode fibre optic connector and cable assembly for industrial environment, Category I	EN 61753-1-3	-
IEC 61754-2	-	Fibre optic connector interfaces - Part 2: Type BFOC/2,5 connector family	EN 61754-2	-
IEC 61754-4	-	Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 4: Type SC connector family	EN 61754-4	-
IEC 61754-20	-	Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 20: Type LC connector family	EN 61754-20	-
IEC 61754-22	-	Fibre optic connector interfaces - Part 22: Type F-SMA connector family	EN 61754-22	-
IEC 61754-24	-	Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 24: Type SC-RJ connector family	EN 61754-24	-
IEC 61784	series	Industrial communication networks - Profiles	EN 61784	series
IEC 61784-1 ³	-	Industrial communication networks - Profiles - Part 1: Fieldbus profiles	-	-
IEC 61784-2 ⁴	-	Industrial communication networks - Profiles - Part 2: Additional fieldbus profiles for real-time networks based on ISO/IEC 8802-3	-	-
IEC 61784-3	series	Industrial communication networks - Profiles - Part 3: Functional safety fieldbuses - General rules and profile definitions	EN 61784-3	series
IEC 61784-5	series	Industrial communication networks - Profiles - Part 5: Installation of fieldbuses	EN 61784-5	series
IEC 61935-1	2015	Specification for the testing of balanced and coaxial information technology cabling - Part 1: Installed balanced cabling as specified in ISO/IEC 11801 and related standards	-	-
IEC 61935-2	-	Specification for the testing of balanced and coaxial information technology cabling - Part 2: Cords as specified in ISO/IEC 11801 and related standards	EN 61935-2	-
IEC 62439	series	Industrial communication networks - High availability automation networks	-	-

³ Under preparation. Stage at the time of publication: IEC/FDIS 61784-1:2018

⁴ Under preparation. Stage at the time of publication: IEC/FDIS 61784-2:2018

IEC 62443	series	Security for industrial automation and control systems	EN IEC 62443	series
IEC 62708	-	Documents kinds for electrical and instrumentation projects in the process industry	EN 62708	-
ISO/IEC 8802-3	-	Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 3: Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications	-	-
ISO/IEC 11801	series	Information technology - Generic cabling for customer premises	-	-
ISO/IEC 11801-1	2017	Information technology - Generic cabling for customer premises - Part 1: General requirements	-	-
ISO/IEC 11801-3	2017	Information technology - Generic cabling for customer premises - Part 3: Industrial premises	-	-
ISO/IEC TR 11801-9902	2017	Information technology - Generic cabling for customer premises - Part 9902: Specifications for End-to-end link configurations	-	-
ISO/IEC 14763-2	2012	Information technology - Implementation and operation of customer premises cabling - Part 2: Planning and installation	-	-
+A1	2015	SIST EN IEC 61918:2019	-	-
ISO/IEC 14763-3	2014	Information technology - Implementation and operation of customer premises cabling - Part 3: Testing of optical fibre cabling	-	-
ISO/IEC 14763-4	2018	Information technology - Implementation and operation of customer premises cabling - Part 4: Measurement of end-to-end (E2E)-Links	-	-
ISO/IEC TS 29125	2017	Information Technology - Telecommunications cabling requirements for remote powering of terminal equipment	-	-
EN 50174-2	-	Information technology - Cabling installation - Part 2: Installation planning and practices inside buildings	EN 50174-2	-
EN 50310	-	Application of Equipotential Bonding and Earthing in Buildings with Information Technology Equipment	EN 50310	-
IEEE Std 802.3	2015	IEEE Standard for Ethernet	-	-
ANSI/(NFPA) T3.5.29 R1	2007	Fluid power systems and components - Electrically-controlled industrial valves - Interface dimensions for electrical connectors	-	-

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IEC 61918

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INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Industrial communication networks –
Installation of communication networks in industrial premises**

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

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
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CONTENTS

FOREWORD.....	11
INTRODUCTION.....	13
1 Scope.....	16
2 Normative references	16
3 Terms, definitions, and abbreviated terms	19
3.1 Terms and definitions.....	19
3.2 Abbreviated terms.....	31
3.3 Conventions for installation profiles	32
4 Installation planning.....	33
4.1 General.....	33
4.1.1 Objective	33
4.1.2 Cabling in industrial premises	33
4.1.3 The planning process	35
4.1.4 Specific requirements for CPs.....	36
4.1.5 Specific requirements for generic cabling in accordance with ISO/IEC 11801-3	36
4.2 Planning requirements	36
4.2.1 Safety.....	36
4.2.2 Security.....	37
4.2.3 Environmental considerations and EMC.....	37
4.2.4 Specific requirements for generic cabling in accordance with ISO/IEC 11801-3	39
4.3 Network capabilities.....	39
4.3.1 Network topology.....	39
4.3.2 Network characteristics.....	41
4.4 Selection and use of cabling components	44
4.4.1 Cable selection.....	44
4.4.2 Connecting hardware selection.....	48
4.4.3 Connections within a channel/permanent link	50
4.4.4 Terminators	55
4.4.5 Device location and connection	56
4.4.6 Coding and labelling	56
4.4.7 Earthing and bonding of equipment and devices and shielded cabling	57
4.4.8 Storage and transportation of cables	67
4.4.9 Routing of cables.....	67
4.4.10 Separation of circuits	69
4.4.11 Mechanical protection of cabling components	70
4.4.12 Installation in special areas	71
4.5 Cabling planning documentation	71
4.5.1 Common description	71
4.5.2 Cabling planning documentation for CPs	71
4.5.3 Network certification documentation	72
4.5.4 Cabling planning documentation for generic cabling in accordance with ISO/IEC 11801-3	72
4.6 Verification of cabling planning specification	72
5 Installation implementation	72
5.1 General requirements	72

5.1.1	Common description	72
5.1.2	Installation of CPs	72
5.1.3	Installation of generic cabling in industrial premises	72
5.2	Cable installation	72
5.2.1	General requirements for all cabling types	72
5.2.2	Installation and routing	78
5.2.3	Specific requirements for CPs.....	80
5.2.4	Specific requirements for wireless installation.....	80
5.2.5	Specific requirements for generic cabling in accordance with ISO/IEC 11801-3	80
5.3	Connector installation	80
5.3.1	Common description	80
5.3.2	Shielded connectors	81
5.3.3	Unshielded connectors	81
5.3.4	Specific requirements for CPs.....	81
5.3.5	Specific requirements for wireless installation.....	81
5.3.6	Specific requirements for generic cabling in accordance with ISO/IEC 11801-3	81
5.4	Terminator installation	82
5.4.1	Common description	82
5.4.2	Specific requirements for CPs.....	82
5.5	Device installation.....	82
5.5.1	Common description	82
5.5.2	Specific requirements for CPs.....	82
5.6	Coding and labelling	82
5.6.1	Common description	82
5.6.2	Specific requirements for CPs.....	82
5.7	Earthing and bonding of equipment and devices and shield cabling	82
5.7.1	Common description	82
5.7.2	Bonding and earthing of enclosures and pathways.....	83
5.7.3	Earthing methods	85
5.7.4	Shield earthing methods	87
5.7.5	Specific requirements for CPs.....	89
5.7.6	Specific requirements for generic cabling in accordance with ISO/IEC 11801-3	89
5.8	As-implemented cabling documentation	90
6	Installation verification and installation acceptance test	90
6.1	General.....	90
6.2	Installation verification	90
6.2.1	General	90
6.2.2	Verification according to cabling planning documentation	91
6.2.3	Verification of earthing and bonding.....	92
6.2.4	Verification of shield earthing	93
6.2.5	Verification of cabling system	93
6.2.6	Cable selection verification	93
6.2.7	Connector verification	94
6.2.8	Connection verification	94
6.2.9	Terminator verification	96
6.2.10	Coding and labelling verification	96

6.2.11	Verification report	96
6.3	Installation acceptance test.....	96
6.3.1	General	96
6.3.2	Acceptance test of Ethernet-based cabling	98
6.3.3	Acceptance test of non-Ethernet-based cabling	100
6.3.4	Specific requirements for wireless installation.....	101
6.3.5	Acceptance test report.....	101
7	Installation administration	102
7.1	General.....	102
7.2	Fields covered by the administration	102
7.3	Basic principles for the administration system	102
7.4	Working procedures	102
7.5	Device location labelling	103
7.6	Component cabling labelling	103
7.7	Documentation.....	104
7.8	Specific requirements for administration	105
8	Installation maintenance and installation troubleshooting.....	105
8.1	General.....	105
8.2	Maintenance	105
8.2.1	Scheduled maintenance.....	105
8.2.2	Condition-based maintenance.....	107
8.2.3	Corrective maintenance.....	108
8.3	Troubleshooting	108
8.3.1	General description	108
8.3.2	Evaluation of the problem	108
8.3.3	Typical problems	109
8.3.4	Troubleshooting procedure	110
8.3.5	Simplified troubleshooting procedure	111
8.4	Specific requirements for maintenance and troubleshooting.....	112
Annex A (informative)	Overview of generic cabling for industrial premises	113
Annex B (informative)	MICE description methodology	114
B.1	General.....	114
B.2	Overview of MICE	114
B.3	Examples of use of the MICE concept.....	115
B.3.1	Common description	115
B.3.2	Examples of mitigation.....	115
B.4	Determining E classification	117
B.5	The MICE table.....	120
Annex C (informative)	Network topologies.....	122
C.1	Common description	122
C.2	Total cable demand	122
C.3	Maximum cable segment length	122
C.4	Maximum network length	122
C.5	Fault tolerance.....	122
C.5.1	General	122
C.5.2	Use of redundancy.....	122
C.5.3	Failure analysis for networks with redundancy	122
C.6	Network access for diagnosis convenience	123

C.7	Maintainability and on-line additions	123
Annex D (informative)	Connector tables	124
Annex E (informative)	Power networks with respect to electromagnetic interference – TN-C and TN-S approaches.....	137
Annex F (informative)	Conductor sizes in electrical cables.....	139
Annex G (informative)	Installed cabling verification checklists.....	141
G.1	General.....	141
G.2	Copper cabling verification checklist	141
G.3	Optical fibre cabling verification checklist.....	144
Annex H (normative)	Cord sets	146
H.1	General.....	146
H.2	Constructing cord sets	146
H.2.1	Straight through cord sets with M12-4 D-coding connectors.....	146
H.2.2	Crossover cord sets with M12-4 D-coding connectors.....	147
H.2.3	Straight through cord sets with 8-way modular connectors.....	147
H.2.4	Crossover cord sets with 8-way modular connectors.....	148
H.2.5	Straight conversion from one connector family to another.....	149
H.2.6	Crossover conversion from one connector family to another	149
H.2.7	Assignment of PMA signal to MDI and MDI-X in outs	150
H.2.8	Signal and pin assignment for MDI and TIA568A.....	151
H.2.9	Signal and pin assignment for MDIX and TIA568B.....	151
H.2.10	Signal and pin assignment for MDIX and TIA568A.....	152
Annex I (informative)	Guidance for terminating cable ends.....	153
I.1	General.....	153
I.2	Guidance for terminating shielded twisted pair cable ends for 8-way modular plugs.....	153
I.3	Guidance for terminating unshielded twisted pair cable ends for 8-way modular plugs	155
I.4	Guidance for M12-4 D-coding connector installation	156
I.5	Guidance for terminating optical fibre cable ends	159
Annex J (informative)	Recommendations for bulkhead connection performance and channel performance with more than 4 connections in the channel.....	160
J.1	General.....	160
J.2	Recommendations	160
Annex K (informative)	Fieldbus data transfer testing	161
K.1	Background.....	161
K.2	Allowable error rates for control systems	161
K.2.1	Bit errors	161
K.2.2	Burst errors	161
K.3	Testing channel performance.....	162
K.4	Testing cable parameters.....	162
K.4.1	General	162
K.4.2	Generic cable testing.....	162
K.4.3	Fieldbus cable testing.....	162
K.5	Testing fieldbus data rate performance	163
K.5.1	General	163
K.5.2	Fieldbus test.....	163
K.5.3	Planning for fieldbus data rate testing.....	163
K.5.4	Fieldbus data rate test reporting template.....	164