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REDLINE VERSION

INTERNATIONAL STANDARD

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Industrial ~~communication~~ networks – Profiles –
Part 5-8: Installation of fieldbuses – Installation profiles for CPF 8



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CONTENTS

FOREWORD 7
INTRODUCTION 2
1 Scope 11
2 Normative references 11
3 Terms, definitions and abbreviated terms 11
4 CPF 8: Overview of installation profiles 12
5 Installation profile conventions 12
6 Conformance to installation profiles 13
Annex A (normative) CP 8/1 and CP 8/2 (CC-Link™/V1 and CC-Link™/V2) specific installation profile 14
A.1 Installation profile scope 14
A.2 Normative references 14
A.3 Installation profile terms, definitions, and abbreviated terms 14
A.3.1 Terms and definitions 14
A.3.2 Abbreviated terms 14
A.3.3 Conventions for installation profiles 14
A.4 Installation planning 14
A.4.1 General 14
A.4.2 Planning requirements 15
A.4.3 Network capabilities 15
A.4.4 Selection and use of cabling components 17
A.4.5 Cabling planning documentation 22
A.4.6 Verification of cabling planning specification 22
A.5 Installation implementation 22
A.5.1 General requirements 22
A.5.2 Cable installation 23
A.5.3 Connector installation 24
A.5.4 Terminator installation 24
A.5.5 Device installation 25
A.5.6 Coding and labelling 25
A.5.7 Earthing and bonding of equipment and devices and shield cabling 25
A.5.8 As-implemented cabling documentation 25
A.6 Installation verification and installation acceptance test 26
A.6.1 General 26
A.6.2 Installation verification 26
A.6.3 Installation acceptance test 27
A.7 Installation administration 27
A.8 Installation maintenance and installation troubleshooting 27
Annex B (normative) CP 8/3 (CC-Link/LT™) specific installation profile 28
B.1 Installation profile scope 28
B.2 Normative references 28
B.3 Installation profile terms, definitions, and abbreviated terms 28
B.3.1 Terms and definitions 28
B.3.2 Abbreviated terms 28
B.3.3 Conventions for installation profiles 28
B.4 Installation planning 28

B.4.1 General 28
B.4.2 Planning requirements 29
B.4.3 Network capabilities 29
B.4.4 Selection and use of cabling components 32
B.4.5 Cabling planning documentation 39
B.4.6 Verification of cabling planning specification 39
B.5 Installation implementation 39
B.5.1 General requirements 39
B.5.2 Cable installation 39
B.5.3 Connector installation 40
B.5.4 Terminator installation 41
B.5.5 Device installation 41
B.5.6 Coding and labelling 41
B.5.7 Earthing and bonding of equipment and devices and shield cabling 41
B.5.8 As-implemented cabling documentation 41
B.6 Installation verification and installation acceptance test 42
B.6.1 General 42
B.6.2 Installation verification 42
B.6.3 Installation acceptance test 43
B.7 Installation administration 43
B.8 Installation maintenance and installation troubleshooting 43
Annex C (normative) CP 8/4 (CC-Link IE™ Controller Network) specific installation profile 44
C.1 Installation profile scope 44
C.2 Normative references 44
C.3 Installation profile terms, definitions, and abbreviated terms 44
C.3.1 Terms and definitions 44
C.3.2 Abbreviated terms 44
C.3.3 Conventions for installation profiles 44
C.4 Installation planning 44
C.4.1 General 44
C.4.2 Planning requirements 44
C.4.3 Network capabilities 45
C.4.4 Selection and use of cabling components 46
C.4.5 Cabling planning documentation 52
C.4.6 Verification of cabling planning specification 52
C.5 Installation implementation 52
C.5.1 General requirements 52
C.5.2 Cable installation 53
C.5.3 Connector installation 54
C.5.4 Terminator installation 54
C.5.5 Device installation 55
C.5.6 Coding and labelling 55
C.5.7 Earthing and bonding of equipment and devices and shield cabling 55
C.5.8 As-implemented cabling documentation 56
C.6 Installation verification and installation acceptance test 56
C.6.1 General 56
C.6.2 Installation verification 56
C.6.3 Installation acceptance test 57

C.7 Installation administration 57
C.8 Installation maintenance and installation troubleshooting 57
Annex D (normative) CP 8/5 (CC-Link IE™ Field Network) specific installation profile 58
D.1 Installation profile scope 58
D.2 Normative references 58
D.3 Installation profile terms, definitions, and abbreviated terms 58
D.3.1 Terms and definitions 58
D.3.2 Abbreviated terms 58
D.3.3 Conventions for installation profiles 58
D.4 Installation planning 58
D.4.1 General 58
D.4.2 Planning requirements 58
D.4.3 Network capabilities 59
D.4.4 Selection and use of cabling components 60
D.4.5 Cabling planning documentation 65
D.4.6 Verification of cabling planning specification 65
D.5 Installation implementation 65
D.5.1 General requirements 65
D.5.2 Cable installation 65
D.5.3 Connector installation 67
D.5.4 Terminator installation 67
D.5.5 Device installation 67
D.5.6 Coding and labelling 67
D.5.7 Earthing and bonding of equipment and devices and shield cabling 67
D.5.8 As-implemented cabling documentation 68
D.6 Installation verification and installation acceptance test 68
D.6.1 General 68
D.6.2 Installation verification 68
D.6.3 Installation acceptance test 69
D.7 Installation administration 70
D.8 Installation maintenance and installation troubleshooting 70
Annex E (normative) CP 8/6 (CC-Link IE™ TSN) specific installation profile 71
E.1 Installation profile scope 71
E.2 Normative references 71
E.3 Installation profile terms, definitions, and abbreviated terms 71
E.3.1 Terms and definitions 71
E.3.2 Abbreviated terms 71
E.3.3 Conventions for installation profiles 71
E.4 Installation planning 71
E.4.1 General 71
E.4.2 Planning requirements 72
E.4.3 Network capabilities 72
E.4.4 Selection and use of cabling components 74
E.4.5 Cabling planning documentation 80
E.4.6 Verification of cabling planning specification 80
E.5 Installation implementation 81
E.5.1 General requirements 81
E.5.2 Cable installation 81
E.5.3 Connector installation 82

E.5.4 Terminator installation 83
E.5.5 Device installation 83
E.5.6 Coding and labelling 83
E.5.7 Earthing and bonding of equipment and devices and shield cabling 83
E.5.8 As-implemented cabling documentation 84
E.6 Installation verification and installation acceptance test 84
E.6.1 General 84
E.6.2 Installation verification 84
E.6.3 Installation acceptance test 85
E.7 Installation administration 85
E.8 Installation maintenance and installation troubleshooting 85
Bibliography 86

Figure 1 – Standards relationships 10
Figure A.1 – Pass-through connector configuration 16
Figure A.2 – Bus t-branch topology 16
Figure A.3 – Wiring 19
Figure B.1 – Powered network topology 30
Figure B.2 – Bus t-branch topology 30
Figure B.3 – Flat cable cross section – with key 32
Figure B.4 – Flat cable cross section – without key 32
Figure B.5 – Flat cable polarity marking 33
Figure B.6 – Wiring 34
Figure B.7 – Flat cable connector and terminal cover 35

Table A.1 – Basic network characteristics for balanced cabling not based on Ethernet 17
Table A.2 – Bus t-branch network characteristics 17
Table A.3 – Information relevant to copper cable: fixed cables 18
Table A.4 – Connectors for copper cabling CPs not based on Ethernet 19
Table A.5 – Parameters for balanced cables 23
Table A.6 – Cable conductor assignments 24
Table B.1 – Basic network characteristics for balanced cabling not based on Ethernet 31
Table B.2 – CP 8/3 additional topology length limits 31
Table B.3 – Information relevant to copper cable: cords 33
Table B.4 – Connectors for copper cabling CPs not based on Ethernet 36
Table B.5 – Parameters for balanced cables 39
Table B.6 – Flat cable conductor assignments 40
Table C.1 – Network characteristics for balanced cabling based on Ethernet 46
Table C.2 – Network characteristics for optical fibre cabling 46
Table C.3 – Information relevant to copper cable: fixed cables 47
Table C.4 – Information relevant to optical fibre cables 48
Table C.5 – Connectors for balanced cabling CPs based on Ethernet 48
Table C.6 – Optical fibre connecting hardware 49
Table C.7 – Relationship between FOC and fibre types (CP 8/4) 49

Table C.8 – Parameters for balanced cables 53
Table C.9 – Parameters for silica optical fibre cables 53
Table D.1 – Network characteristics for balanced cabling based on Ethernet 60
Table D.2 – Information relevant to copper cable: fixed cables 61
Table D.3 – Connectors for balanced cabling CPs based on Ethernet 62
Table D.4 – Parameters for balanced cables 66
Table E.1 – Network characteristics for balanced cabling based on Ethernet 73
Table E.2 – Network characteristics for optical fibre cabling 74
Table E.3 – Information relevant to copper cable: fixed cables 75
Table E.4 – Information relevant to optical fibre cables 76
Table E.5 – Connectors for balanced cabling CPs based on Ethernet 77
Table E.6 – Optical fibre connecting hardware 77
Table E.7 – Relationship between FOC and fibre types (CP 8/6) 77
Table E.8 – Parameters for balanced cables 81
Table E.9 – Parameters for silica optical fibre cables 81

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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INDUSTRIAL ~~COMMUNICATION~~ NETWORKS – PROFILES –

Part 5-8: Installation of fieldbuses – Installation profiles for CPF 8

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IEC 61784-5-8 has been prepared by subcommittee 65C: Industrial networks, of IEC technical committee 65: Industrial-process measurement, control and automation. It is an International Standard.

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

This third edition cancels and replaces the second edition published in 2018. This edition constitutes a technical revision.

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

a) Annex E and related references have been added.

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

Draft	Report on voting
65C/1280/FDIS	65C/1295/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 the 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.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
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INTRODUCTION

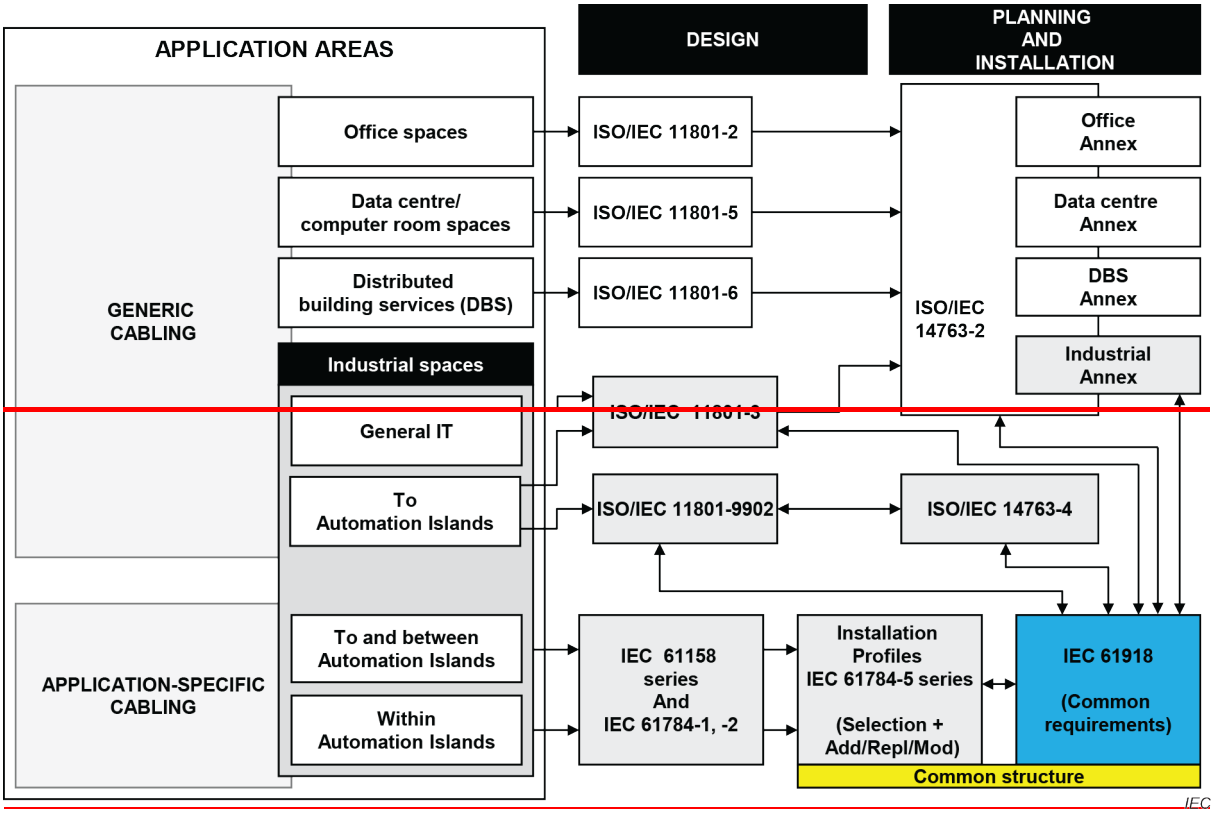
This document is one of a series produced to facilitate the use of communication networks in industrial control systems.

IEC 61918:2018, IEC 61918:2018/AMD1:2022 and IEC 61918:2018/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 61918:2018 and IEC 61918:2018/AMD1:2022 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 61918:2018 for the benefit of the persons representing the roles in the fieldbus installation process as defined in IEC 61918:2018 (planner, installer, verification personnel, validation personnel, maintenance personnel, administration personnel). By reading the installation profile in conjunction with IEC 61918:2018, 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 61784-5-8 for CPF 8) allows readers to work with standards of a convenient size.



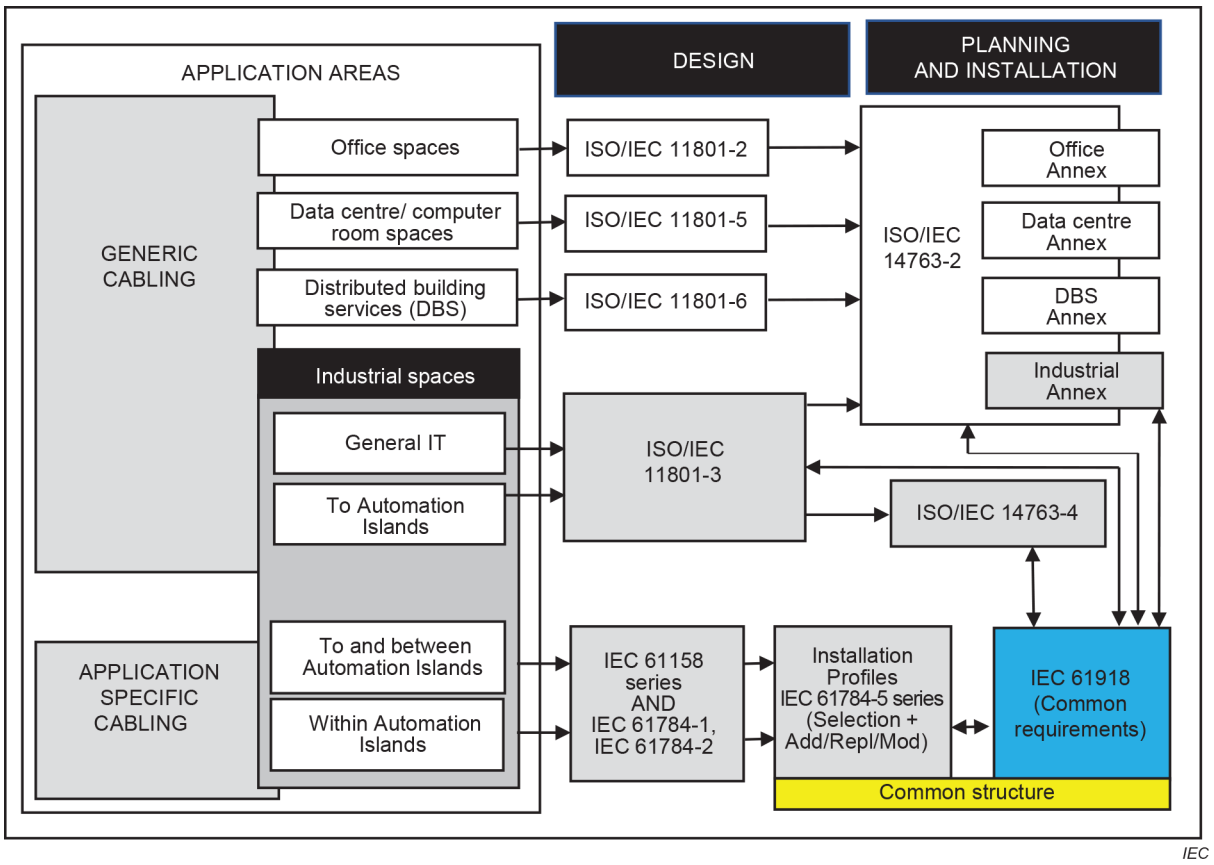


Figure 1 – Standards relationships

INDUSTRIAL ~~COMMUNICATION~~ NETWORKS – PROFILES –

Part 5-8: Installation of fieldbuses – Installation profiles for CPF 8

1 Scope

This part of IEC 61784-5 specifies the installation profiles for CPF 8 (CC-Link™[1]).

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 61918:2018[2], *Industrial communication networks – Installation of communication networks in industrial premises*
IEC 61918:2018/AMD1:2022
IEC 61918:2018/AMD2:2024

~~The normative references of IEC 61918:2018, Clause 2, apply.~~

NOTE For profile specific normative references, see Clauses A.2, B.2, ~~C.2and D.2~~ and E.2 respectively.

3 Terms, definitions and abbreviated terms

For the purposes of this document, the terms, definitions and abbreviated terms given in IEC 61918:2018, Clause 3 and IEC 61918:2018/AMD1:2022, Clause 3 apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at https://www.electropedia.org/
- ISO Online browsing platform: available at https://www.iso.org/obp

~~NOTE For profile specific normative references, see Clauses A.3, B.3, C.3 and D.3 respectively.~~

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1 CC-Link™, CC-Link/LT™ and CC-Link IE™ are trade names of Mitsubishi Electric Co., control of trade name use is given to CCLink Partner Association. This information is given for the convenience of users of this document 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.

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.