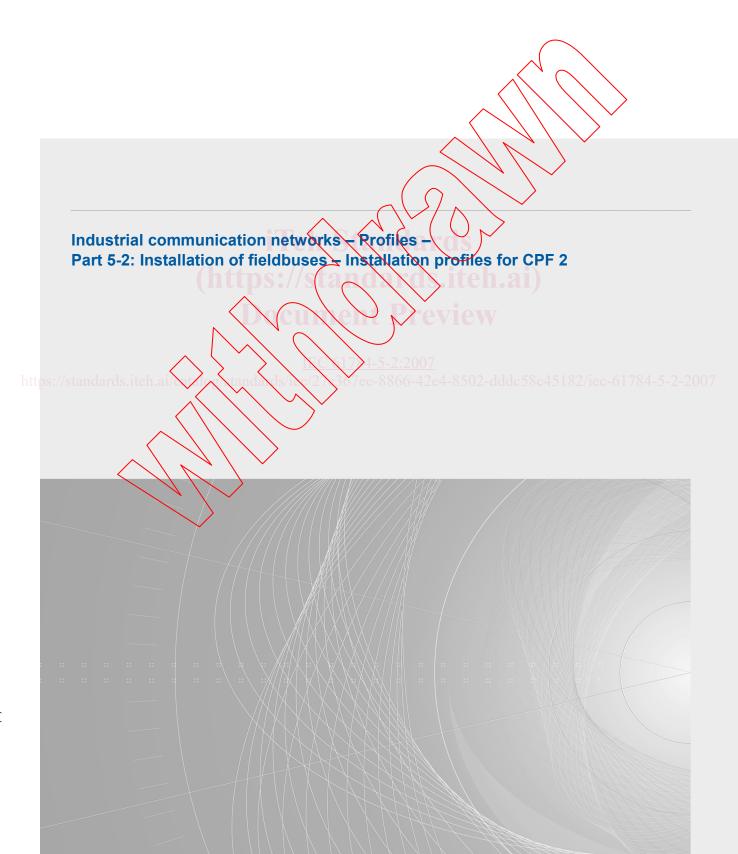


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CONTENTS

FC	OREW	ORD		9
IN	TROD	UCTION	V	11
1	Scor	e		12
2			eferences	
3	Term	ıs. defir	nitions and abbreviated terms	12
4			rview of installation profiles	
5			profile conventions	
6			e to installation profiles	
Ai		(norma	tive) CP 2/1 (ControlNet™) specific installation profile	14
	A.1	Install	ation profile scope	14
	A.2 A.3		ative referencesative referencesation profile terms, definitions, and abbreviated terms	
	A.3	A.3.1		14
		A.3.1	Abbreviated terms	
		A.3.3	Conventions for installation profiles	14
	A.4		ation planning	15
		A.4.1	Introduction	15
		A.4.2	Planning requirements	16
		A.4.3	Planning requirements Network capabilities	17
		A.4.4	Selection and use of cabling components	22
		A.4.5	Cabling planning documentation	38
		A.4.6	Verification of planning specification	38
	A.5	Install	ation implementation	
		A.5.1	General requirements	39
		A.5.2	Cable installation	
		A.5.3	Connector installation	
		A.5.4	Terminator installation	
		A.5.5		
		A.5 6	Coding and labelling	
	<	A.5.7		
	۸.		As implemented cabling documentation	
	A.6	A.6.1	ation verification and installation acceptance test	
		A.6.2	Installation verification	
		A.6.3	Installation acceptance test	
	A.7		ation administration	
	A.8		ation maintenance and installation troubleshooting	
		A.8.1	General	
		A.8.2	Maintenance	57
		A.8.3	Troubleshooting	57
Ar	nnex B	(norma	tive) CP 2/2 (EtherNet/IP™) specific installation profile	
	B.1	Install	ation profile scope	62
	B.2		ative references	
	B.3		ation profile terms, definitions, and abbreviated terms	
		B.3.1	Terms and definitions	62
		B.3.2	Abbreviated terms	62

	B.3.3 Conventions for installation profiles	63
B.4	Installation planning	63
	B.4.1 Introduction	63
	B.4.2 Planning requirements	64
	B.4.3 Network capabilities	64
	B.4.4 Selection and use of cabling components	66
	B.4.5 Cabling planning documenation	78
	B.4.6 Verification of cabling planning specification	78
B.5	Installation implementation	79
	B.5.1 General requirements	
	B.5.2 Cable installation	79
	B.5.3 Connector installation	80
		81
	B.5.5 Device installation	81
	B.5.6 Coding and labelling	
	B.5.7 Earthing and bonding of equipment and devices and shield cabling	
	B.5.8 As-implemented cabling documentation	
B.6	Installation verification and installation acceptance test	84
	B.6.1 Introduction	
	B.6.2 Installation verification	84
	B.6.3 Installation acceptance test	85
B.7	Installation administration	
B.8	Installation maintenance and installation troubleshooting	
Annex C	(normative) CP 2/3 (DeviceNet™) specific installation profile	
C.1	Installation profile scope	87
C.2	Normative references	
C.3	Installation profile terms, definitions and abbreviated terms	87
	V / \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	C.3.2 Abbreviated terms	
	C.3.3 Conventions for installation profiles	
C.4	Installation planning	
	C.4.1 Introduction	
<	C.4.2 Planning requirements	
	C.4.3 Network capabilities	
	C.4.4 Selection and use of cabling components	
	C.4.5 Cabling planning documentation	
	C.4.6 Verification of cabling planning specification	
C.5	Installation implementation	
	C.5.1 General requirements	
	C.5.2 Cable installation	
	C.5.3 Connector installation	
	C.5.4 Terminator installation	
	C.5.5 Device installation	
	C.5.6 Coding and labelling	
	C.5.7 Earthing and bonding of equipment and devices and shield cabling	
2.2	C.5.8 As-implemented cabling documentation	
C.6	Installation verification and installation acceptance test	
	C.6.1 Introduction	130
	L N / INSTALLATION VARITICATION	130

	C.6.3 Installation acceptance test	133
C.7	Installation administration	134
C.8	Installation maintenance and installation troubleshooting	
	C.8.1 General	
	C.8.2 Maintenance	
	C.8.3 Troubleshooting C.8.4 Specific requirements for maintenance and troubleshooting	
Annex D	(informative) Additional information	
D.1	Network validation check sheet for CP 2/3 (DeviceNet)	
	phyphy	
Table A 1	1. Designatively observatoristics for some subling not become Electrical	
	1 – Basic network characteristics for copper cabling not based on Ethernet	21
`	2 – Allowable fibre lengths	
	3 – Power budgets for ControlNet fibre networks	21
	4 – RG6 coaxial electrical properties	22
	5 – RG6 coaxial physical parameters	
Table A.6	6 – Cable type selection	
Table A.7	7 – Information relevant to optical fibre cables	
	8 – Copper connectors for ControlNet	
	9 – Fibre connectors for fieldbus systems	
	10 – Separation from other circuits inside enclosures	
	11 – Pulling and bend radius for coaxial cables	
	12 – Bend radius for coaxial cables	
	13 – Spacing from other circuits inside and outside wire ways or conduit	
	14 – Separation from Category-1 conductors for coax cables inside enclosures	
	15 – Test matrix for BNC/TNS connectors	
	16 – Wave length and fibre-types	
	17 – LED status table	
	18 – Repeater adapter and module diagnostic	
	19 – Repeater adapter indicator diagnostic	
	20 – Repeater module indicator	
	21 – Short and medium distance troubleshooting chart	
	22 – Long and extra long troubleshooting chart	
	1 – Network characteristics for balanced cabling based on Ethernet	
	2 – Network characteristics for optical fibre cabling	
	3 – Information relevant to balanced cable: fixed cables	
	4 – Information relevant to balanced cable: cords	
	5 – TCL limits for unshielded twisted-pair cabling	
	6 – ELTCTL limits for unshielded twisted-pair cabling	
	7 – Coupling attenuation limits for screened twisted-pair cabling	
	8 – 4 pair colour codes and pair assignment	
	9 – 2 pair colour codes and pair assignment	
	10 – Fibre type and bandwidth	
	· - · · · · · · · · · · · · · · · · · ·	

Table B.11 –Connectors for balanced cabling CPs based on Ethernet	69
Table B.12 – Industrial EtherNet/IP 8-way modular connector parameters	70
Table B.13 – Industrial EtherNet/IP M12-4 D-coding connector parameters	71
Table B.14 – Optical fibre connectors for fieldbus systems	71
Table B.15 – Supported fibre types	72
Table B.16 – Connector insertion loss	73
Table B.17 – Routing communications cabling in contiguous metallic pathways	77
Table B.18 – Parameters for balanced cables	79
Table B.19 – Parameters for silica optical fibre cables	79
Table C.1 – Basic network characteristics for copper cabling not based on Ethernet	91
Table C.2 – Cable trunk and drop lengths for CP 2/3	91
Table C.3 – Summary of available current for trunk cables (CP 2/3)	95
	95
Table C.5 – Power supply specification for DeviceNet	
Table C.6 – Power supply tolerance stack up for DeviceNet	
Table C.7 – Current versus cable length for one power supply thick cable	
Table C.8 – Current versus length for two power supplies	
Table C.9 – Definition of equation variables	
Table C.10 – Information relevant to copper cable fixed cables	
Table C.11 – Information relevant to copper cable: cords	
Table C.12 – DeviceNet cables and connector support cross reference	
Table C.13 – DeviceNet cable profiles	
Table C.14 – Copper connectors for non Ethernet based fieldbus	
Table C.15 – Additional connectors for CP 2/3 (DeviceNet)	
Table C.16 – Parameters for balanced cables	
Table C.17 – Wire colour code and function	
Table C.18 – Auxiliary power cable colour code	
Table C.19 Network power supply requirements	
Table C.20 – Signal wire verification	
Table C.21 – Shield to earth	
Table C.22 – Connector pin out	
rubic 6.22 Connector pin out	
Figure 4. Chandards relationships	4.4
Figure 1 – Standards relationships	
Figure A.1 – Interconnection of CPF 2 networks	
Figure A.2 Drep cable requirements	
Figure A.4 Placement of RNC/TNC pluge	
Figure A.5 Placement of BNC/TNC plugs	
Figure A.6. Extending a potyerk using reporters	
Figure A.7 Extending a network using repeaters	
Figure A.7 – Extending a network using active star topology	
Figure A.9. Futer diagraphs are trade bounded as a fine section of the section of	
Figure A.9 – Extending the network beyond 99 nodes	20

Figure A.10 – Maximum allowable taps per segment	26
Figure A.11 – Example of repeaters in star configuration	28
Figure A.12 – Repeaters in parallel	29
Figure A.13 – Repeaters in combination series and parallel	29
Figure A.14 – Ring repeater	30
Figure A.15 – Installing bulkheads	31
Figure A.16 – Coaxial BNC and TNC terminators	32
Figure A.17 – Terminator placement in a segment	32
Figure A.18 – Redundant network icons	35
Figure A.19 – Redundant coax media	35
Figure A.20 – Redundant fibre media	35
Figure A.21 – Repeaters in series versus length difference for coax media	36
Figure A.22 – Repeaters in series versus length difference for fibre media	36
Figure A.23 – Example of redundant coax network with repeaters	37
Figure A.24 – Example of improper redundant node connection	37
Figure A.25 – Example tool kit for installing BNC connectors	41
Figure A.26 – Calibration of coaxial stripper	41
Figure A.27 – Coax PVC strip length detail	42
Figure A.28 – Memory cartridge and blade	43
Figure A.29 – Cable position	43
Figure A.30 – Locking the cable	
Figure A.31 – Stripping the cable	44
Figure A.32 – Install the crimp ferrule	44
Figure A.33 – Cable preparation for PVC type cables	
Figure A.34 - Cable preparation for FEP type cables	452-200
Figure A.35 – Strip guides	45
Figure A.36 – Using the flare tool	46
Figure A.37 - Expanding the shields	
Figure A 38 - Install the centre pin	46
Figure A.39 - Crimping the centre pin	47
Figure A.40 – Installing the connector body	47
Figure A.41 – Installing the ferrule	47
Figure A.42 – Crimp tool	
Figure A.43 – Sealed IP67 cable	48
Figure A.44 – Terminator placement	49
Figure A.45 – Mounting the taps	50
Figure A.46 – Mounting the tap assembly using the universal mounting bracket	
Figure A.47 – Mounting the tap using tie wraps or screws	
Figure A.48 – Redundant network icons	
Figure A.49 – Network test tool	
Figure A.50 – Shorting the cable to test for continuity	
Figure A.51 – Testing fibre segments	
Figure A.52 – Multi-fibre backbone cable housing	58

Figure A.53 – Repeater adapt	er module	58
Figure A.54 – Short and medi	um distance fibre module LEDs	60
Figure A.55 – Long and extra	long repeater module LEDs	61
Figure B.1 – Interconnection of	of CPF 2 networks	63
Figure B.2 – Peer to peer con	nections	65
Figure B.3 – The 8-way modu	lar sealed jack & plug (plastic housing)	70
Figure B.4 – The 8-way modu	lar sealed jack & plug (metal housing)	70
Figure B.5 – M12-4 connector	·s	71
Figure B.6 – Simplex LC conn	nector	72
Figure B.7 – Duplex LC conne	ector	72
Figure B.8 - IP65/IP67 sealed	d duplex LC connector	72
Figure B.9 – M12-4 to 8-way r	modular bulkhead	74
	ular sealed jack & plug (plastic housing)	80
Figure B.11 – The 8-way mod	ular sealed jack & plug (metal housing)	80
Figure B.12 - M12-4 connecto	ors	80
Figure B.13 – Wiring standard	d (connector back end)	81
Figure B.14 – Earthing of cab		
Figure B.15 – Open shield exa	ample	83
Figure C.1 – Interconnection of	of CPF 2 networks	88
Figure C.2 – Connection to ge	eneric cabling	89
Figure C.3 – DeviceNet cable	system uses a trunk/drop line topology	90
Figure C.4 – Measuring the tr	unk length	92
Figure C.5 – Measuring the tr	unk and drop length	92
Figure C.6 – Measuring drop	cable in a network with multiports	93
https://Figure C.7 - Removable device	ce using open style connectors	1.784-932-200
Figure C.8 – Fixed connection	using open style connector	94
	ector pin out	
Figure C.10 - Open style con	nector pin out 10 position	94
Figure C.11 - Power supply s	izing example	97
Figure C.12 - Current limit for	r thick cable for one power supply	98
Figure C.13 – Current for thick	k cable and two power supplies	99
Figure C.14 – Worst case sce	nario	100
Figure C.15 – Example using	the lookup method	100
Figure C.16 – One power sup	ply end connected	102
Figure C.17 – Segmenting por	wer in the power bus	103
Figure C.18 – Segmenting the	e power bus using power taps	103
Figure C.19 – Thick cable con	nstruction	113
Figure C.20 – Mid cable const	truction	114
Figure C.21 – Thin cable cons	struction	114
Figure C.22 – Flat cable cons	truction	114
Figure C.23 – Cable preparati	ion	115
Figure C.24 – Connector asse	embly	115
Figure C.25 – Micro connecto	r pin assignment	116

Figure C.26 – Mini connector pin assignment	116
Figure C.27 – Preparation of cable end	116
Figure C.28 – Shrink wrap installation	117
Figure C.29 – Wire preparation	117
Figure C.30 – Open-style connector (female)	117
Figure C.31 – Open style (male plug)	117
Figure C.32 – Flat cable	118
Figure C.33 – Aligning the cable	119
Figure C.34 – Closing the assembly	
Figure C.35 – Proper orientation of cable	119
Figure C.36 – Locking the assembly	119
Figure C.37 – Driving the IDC contacts in to the cable	120
Figure C.38 – End cap placement	120
Figure C.39 – End cap seated	121
Figure C.40 – End cap installation alternate side of cable	121
Figure C.41 – Flat cable IDC connectors	121
Figure C.42 – Installing the connectors	
Figure C.43 – Cable wiring to open style terminals.	122
Figure C.44 – Auxiliary power cable profile	123
Figure C.45 – Pin out auxiliary power connectors	123
Figure C.46 – Sealed terminator	125
Figure C.47 – Open-style terminator	126
Figure C.48 – Open-style IDC terminator	126
Figure C.49 – Sealed terminator IDC cable 17.1.5.7.7.007.	
Figure C.50 - Direct connection to the trunk	.8.4 127 2-2007
Figure C.51 – Wiring of open-style connector	
Figure C.52 – Wiring of open-style 10-position connector	
Figure C.53 - Diagnostic temporary connections	
Figure C.54 - Thick cable preterminated cables (cord sets)	
Figure C.55 - Thin cable preterminated cables (cord sets)	

INTERNATIONAL ELECTROTECHNICAL COMMISSION

INDUSTRIAL COMMUNICATION NETWORKS - PROFILES

Part 5-2: Installation of fieldbuses - Installation profiles for CPF 2

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International Standard IEC 61784-5-2 has been prepared by subcommittee 65C: Industrial networks, of IEC technical committee 65: Industrial process measurement, control and automation.

This standard is to be used in conjunction with IEC 61918:2007.

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

FDIS	Report on voting	
65C/471/FDIS	65C/482/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, under the general title *Industrial communication networks – Profiles – Installation of fieldbuses*, can be found on the IEC website.

-200′

The committee has decided that the contents of this publication will remain unchanged until the maintenance result 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.



INTRODUCTION

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

IEC 61918:2007 (Ed. 1.0) 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 (e.g. IEC 61784-5-2 for CPF 2), allows readers to work with standards of a convenient size.

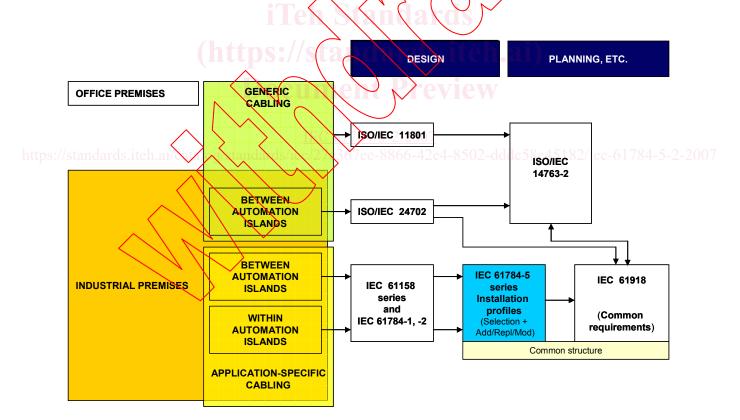


Figure 1 - Standards relationships

INDUSTRIAL COMMUNICATION NETWORKS - PROFILES

Part 5-2: Installation of fieldbuses - Installation profiles for CPF 2

1 Scope

This part of IEC 61784 specifies the installation profiles for CPF 2 (CIP™1).

The installation profiles are specified in the annexes. These annexes are read in conjunction with IEC 61918:2007.

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 61918:2007, Industrial communication networks – Installation of communication networks in industrial premises

The normative references of IEC 61918:2007, Clause 2, apply. For profile specific normative references, see Clauses A.2, B.2, and C.2.

3 Terms, definitions and abbreviated terms

The terms, definitions and abbreviated terms of IEC 61918:2007, Clause 3, apply. For profile specific terms, definitions and abbreviated terms see Clauses A.3, B.3, and C.3.

4 CPF 2: Overview of installation profiles

CPF 2 consists of three basic communication profiles as specified in IEC 61784-1 and IEC 61784-2. These profiles share a common upper layers protocol named CIP™ (Common Industrial Protocol).

The installation requirements for CP 2/1 (ControlNet™2) are specified in Annex A. Co-61784-5-2-2007

The installation requirements for CP 2/2 (EtherNet/IP™3) are specified in Annex B.

The installation requirements for CP 2/3 (DeviceNet[™]4) are specified in Annex C.

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