

Irish Standard I.S. EN 61076-3-114:2009

Connectors for electronic equipment - Product requirements -- Part 3-114: Rectangular connectors - Detail specification for protective housings for use with 8-way shielded and unshielded connectors for frequencies up to 600 MHz for industrial environments incorporating the IEC 60603-7 series interface - Variant 11 related to IEC 61076-3-106 - Bayonet coupling type (IEC 61076-3-114:2009 (EQV))

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Connectors for electronic equipment - Product requirements -

Part 3-114: Rectangular connectors -

Detail specification for protective housings for use with 8-way shielded and unshielded connectors for frequencies up to 600 MHz for industrial environments incorporating the IEC 60603-7 series interface -

Variant 11 related to IEC 61076-3-106 - Bayonet coupling type

(IEC 61076-3-114:2009)

Connecteurs

pour équipement électroniques -

Exigences de produits -

Partie 3-114: Connecteurs rectangulaires -

Spécification particulière pour boîtiers

de protection utilisés avec

des connecteurs blindés et non blindés

à 8 voies pour des fréquences

inférieures ou égales à 600 MHz dans des environnements industriels incorporant

l'interface série CEI 60603-7 -

Variante 11 liée à la CEI 61076-3-106 -

Type d'accouplement à baïonnette

(CEI 61076-3-114:2009)

Steckverbinder

für elektronische Einrichtungen -

Produktanforderungen -

Teil 3-114: Rechteckige Steckverbinder - Bauartspezifikation für Schutzgehäuse

für die Anwendung mit 8-poligen geschirmten

und ungeschirmten Steckverbindern

für Frequenzen bis 600 MHz für industrielle

Umgebungen zur Aufnahme der Schnittstelle

der Reihe IEC 60603-7 -

Ausführung 11 zu IEC 61076-3-106 -

Bajonettausführung (IEC 61076-3-114:2009)

This European Standard was approved by CENELEC on 2009-07-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 Central Secretariat or to any CENELEC member.

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CENELEC

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

Central Secretariat: Avenue Marnix 17, B - 1000 Brussels

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- 2 -

Foreword

The text of document 48B/1995/FDIS, future edition 1 of IEC 61076-3-114, prepared by SC 48B, Connectors, of IEC TC 48, Electromechanical components and mechanical structures for electronic equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61076-3-114 on 2009-07-01.

The following dates were fixed:

 latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement

(dop) 2010-04-01

 latest date by which the national standards conflicting with the EN have to be withdrawn

(dow) 2012-07-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61076-3-114:2009 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60050-581	2008	International Electrotechnical Vocabulary (IEV) - Part 581: Electromechanical components for electronic equipment	-	-
IEC 60068-1	_1)	Environmental testing - Part 1: General and guidance	EN 60068-1	1994 ²⁾
IEC 60068-2-14	_1)	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	EN 60068-2-14	2009 ²⁾
IEC 60068-2-30	_1)	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	EN 60068-2-30	2005 ²⁾
IEC 60512-1	_1)	Connectors for electronic equipment - Tests and measurements - Part 1: General	EN 60512-1	2001 ²⁾
IEC 60512-1-100	_1)	Connectors for electronic equipment - Tests and measurements - Part 1-100: General - Applicable publications	EN 60512-1-100	2006 ²⁾
IEC 60529	_1)	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May	1991 ²⁾ 1993
IEC 60603-7	_1)	Connectors for electronic equipment - Part 7: Detail specification for 8-way, unshielded, free and fixed connectors	-	-
IEC 60603-7-2	_1)	Connectors for electronic equipment - Part 7-2: Detail specification for 8-way, unshielded, free and fixed connectors, for data transmissions with frequencies up to 100 MHz		-
IEC 60603-7-3	_1)	Connectors for electronic equipment - Part 7-3: Detail specification for 8-way, shielded, free and fixed connectors, for data transmission with frequencies up to 100 MHz	-	-
IEC 60603-7-4	_1)	Connectors for electronic equipment - Part 7-4: Detail specification for 8-way, unshielded, free and fixed connectors, for data transmissions with frequencies up to 250 MHz		2005 ²⁾

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

EN 61076-3-114:2009

- 4 -

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60603-7-5	_1)	Connectors for electronic equipment - Part 7-5: Detail specification for 8-way, shielded, free and fixed connectors, for data transmissions with frequencies up to 250 MH	- Z	-
IEC 60603-7-7	_1)	Connectors for electronic equipment - Part 7-7: Detail specification for 8-way, shielded, free and fixed connectors for data transmission with frequencies up to 600 MHz	EN 60603-7-7	2006 ²⁾
IEC 60664-1	_1)	Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests	EN 60664-1	2007 ²⁾
IEC 61076-1	2006	Connectors for electronic equipment - Product requirements - Part 1: Generic specification	EN 61076-1	2006
IEC 61156	Series	Multicore and symmetrical pair/quad cables for digital communications	-	-
IEC 61156-2	_1)	Multicore and symmetrical pair/quad cables for digital communications - Part 2: Horizontal floor wiring - Sectional specification	-	-
IEC 61156-3	_1)	Multicore and symmetrical pair/quad cables for digital communications - Part 3: Work area cable - Sectional specification	-	-
IEC 61156-4	_1)	Multicore and symmetrical pair/quad cables for digital communications - Part 4: Riser cables - Sectional specification	-	-

- 2 - 61076-3-114 © IEC:2009

CONTENTS

FO	OREWORD			
INT	NTRODUCTION			
1	General data7			
	1.1	Scope	.7	
	1.2	Normative references	.7	
2	Term	s and definitions	8.	
3	Dime	nsional information	.8	
	3.1	Common features	.8	
	3.2	General	.9	
	3.3	Contact arrangement of all connector types	9	
	3.4	IP65 and IP67 sealing	9	
	3.5	Industrial IEC 60603-7 variant 11 – Bayonet coupling	.9	
		3.5.1 Industrial IEC 60603-7 variant 11, fixed connectors	9	
		3.5.2 Industrial IEC 60603-7 variant 11, free connectors	0	
	3.6	Termination and mounting information1		
	3.7	General1		
	3.8	Mounting information for variant 11, fixed connector1		
	3.9	Cap for fixed connector1		
		Cap for free connector1		
4	Gaug	les1	3	
	4.1	Connectors, IEC 60603-7 interface	3	
5	Chara	acteristics1	3	
	5.1	Climatic category1	3	
	5.2	Electrical1	4	
		5.2.1 Clearance and creepage distances		
		5.2.2 Voltage proof1	4	
		5.2.3 Current-derating diagram1	4	
		5.2.4 Mating cycles with power applied1	5	
		5.2.5 Initial contact resistance	5	
		5.2.6 Input-to-output resistance1		
		5.2.7 Resistance unbalance		
		5.2.8 Initial insulation resistance		
	5.3	Transmission characteristics		
		5.3.1 General		
		5.3.2 Mechanical operation1		
		5.3.3 Effectiveness of connector coupling devices transversal		
		5.3.4 Effectiveness of connector coupling devices		
_		5.3.5 Separation and engagement forces		
6	lest	schedule1		
	6.1	General1		
	6.2	Test procedures and measuring methods		
	6.3	Preconditioning		
	6.4	Wiring and mounting of specimens		
		6.4.1 Wiring		
		6.4.2 Mounting		
	6.5	Arrangement for contact resistance test1	7	

61076-3-114 © IEC:2009

- 3 -

6.7 Basic (minimum) test schedule 6.8 Full test schedule 6.8.1 Test preliminary group P 6.8.2 Test group P 6.8.3 Test group AP 6.8.4 Test group BP 6.8.5 Test group DP 6.8.6 Test group DP 6.8.7 Test group EP Bibliography Figure 1 – Variant 11, fixed connector Figure 2 – Variant 11, free connector Figure 3 – Variant 11 cap for fixed connector Figure 5 – Variant 11 cap for free connector Figure 6 – Connector derating diagram Table 1 – Dimensions of fixed connector, variant 11 Table 2 – Dimensions of cap for free connector variant 11 Table 5 – Dimensions of cap for free connector variant 11. Table 6 – Climatic categories – Selected values for environmental performance level A Table 8 – Test group AP – Dynamic/climatic Table 10 – Test group BP – Mechanical Table 11 – Test group CP – Continuity	6.6	6 Arrangement for dynamic stress tests (test phase AP2)			
6.8.1 Test preliminary group P	6.7	.7 Basic (minimum) test schedule1			
6.8.2 Test group P. 6.8.3 Test group AP. 6.8.4 Test group BP. 6.8.5 Test group CP. 6.8.6 Test group DP. 6.8.7 Test group EP. Bibliography. Figure 1 – Variant 11, fixed connector. Figure 2 – Variant 11 mounting. Figure 4 – Variant 11 cap for fixed connector. Figure 5 – Variant 11 cap for free connector. Figure 6 – Connector derating diagram. Table 1 – Dimensions of fixed connector, variant 11. Table 2 – Dimensions of free connector, variant 11. Table 3 – Mounting information. Table 4 – Dimensions of cap for fixed connector variant 11. Table 5 – Dimensions of cap for free connector variant 11. Table 6 – Climatic categories – Selected values for environmental performance level A. Table 8 – Test group P. Table 9 – Test group BP – Mechanical.	6.8	Full te	st schedulest	17	
6.8.3 Test group AP 6.8.4 Test group BP 6.8.5 Test group CP 6.8.6 Test group DP 6.8.7 Test group EP Bibliography. Figure 1 – Variant 11, fixed connector Figure 2 – Variant 11, free connector Figure 3 – Variant 11 mounting Figure 4 – Variant 11 cap for fixed connector Figure 5 – Variant 11 cap for free connector Figure 6 – Connector derating diagram Table 1 – Dimensions of fixed connector, variant 11 Table 2 – Dimensions of free connector, variant 11. Table 3 – Mounting information. Table 4 – Dimensions of cap for fixed connector variant 11. Table 5 – Dimensions of cap for free connector variant 11. Table 6 – Climatic categories – Selected values for environmental performance level A. Table 7 – Table 8 – Test group P – Dynamic/climatic. Table 10 – Test group BP – Mechanical.		6.8.1	Test preliminary group P	18	
6.8.4 Test group BP 6.8.5 Test group CP 6.8.6 Test group DP 6.8.7 Test group EP Bibliography. Figure 1 – Variant 11, fixed connector Figure 2 – Variant 11, free connector Figure 3 – Variant 11 mounting Figure 4 – Variant 11 cap for fixed connector Figure 5 – Variant 11 cap for free connector Figure 6 – Connector derating diagram Table 1 – Dimensions of fixed connector, variant 11 Table 2 – Dimensions of free connector, variant 11 Table 3 – Mounting information Table 4 – Dimensions of cap for fixed connector variant 11 Table 5 – Dimensions of cap for free connector variant 11 Table 6 – Climatic categories – Selected values for environmental performance level A Table 7 – Table 8 – Test group P – Dynamic/climatic Table 10 – Test group BP – Mechanical		6.8.2	Test group P	18	
6.8.5 Test group CP 6.8.6 Test group DP 6.8.7 Test group EP Bibliography Figure 1 – Variant 11, fixed connector Figure 2 – Variant 11 mounting Figure 3 – Variant 11 mounting Figure 4 – Variant 11 cap for fixed connector Figure 5 – Variant 11 cap for free connector Figure 6 – Connector derating diagram Table 1 – Dimensions of fixed connector, variant 11 Table 2 – Dimensions of free connector, variant 11. Table 3 – Mounting information Table 4 – Dimensions of cap for fixed connector variant 11. Table 5 – Dimensions of cap for free connector variant 11. Table 6 – Climatic categories – Selected values for environmental performance level A Table 7 – Table 8 – Test group P Table 9 – Test group AP – Dynamic/climatic Table 10 – Test group BP – Mechanical			Test group AP	19	
6.8.6 Test group DP 6.8.7 Test group EP Bibliography Figure 1 – Variant 11, fixed connector Figure 2 – Variant 11 free connector Figure 3 – Variant 11 mounting Figure 4 – Variant 11 cap for fixed connector Figure 5 – Variant 11 cap for free connector Figure 6 – Connector derating diagram Table 1 – Dimensions of fixed connector, variant 11 Table 2 – Dimensions of free connector, variant 11 Table 3 – Mounting information Table 4 – Dimensions of cap for fixed connector variant 11. Table 5 – Dimensions of cap for free connector variant 11. Table 6 – Climatic categories – Selected values for environmental performance level A Table 8 – Test group P Table 9 – Test group BP – Mechanical			• .		
6.8.7 Test group EP Bibliography Figure 1 – Variant 11, fixed connector Figure 2 – Variant 11, free connector Figure 3 – Variant 11 mounting Figure 4 – Variant 11 cap for fixed connector Figure 5 – Variant 11 cap for free connector Figure 6 – Connector derating diagram Table 1 – Dimensions of fixed connector, variant 11 Table 2 – Dimensions of free connector, variant 11 Table 3 – Mounting information Table 4 – Dimensions of cap for fixed connector variant 11 Table 5 – Dimensions of cap for free connector variant 11 Table 6 – Climatic categories – Selected values for environmental performance level A Table 8 – Test group P Table 9 – Test group AP – Dynamic/climatic Table 10 – Test group BP – Mechanical			•		
Bibliography. Figure 1 – Variant 11, fixed connector			•		
Figure 1 – Variant 11, fixed connector Figure 2 – Variant 11, free connector Figure 3 – Variant 11 mounting Figure 4 – Variant 11 cap for fixed connector Figure 5 – Variant 11 cap for free connector Figure 6 – Connector derating diagram Table 1 – Dimensions of fixed connector, variant 11 Table 2 – Dimensions of free connector, variant 11 Table 3 – Mounting information Table 4 – Dimensions of cap for fixed connector variant 11 Table 5 – Dimensions of cap for free connector variant 11 Table 6 – Climatic categories – Selected values for environmental performance level A Table 7 – Table 8 – Test group P Table 9 – Test group BP – Mechanical			• .		
Figure 2 – Variant 11, free connector Figure 3 – Variant 11 mounting Figure 4 – Variant 11 cap for fixed connector Figure 5 – Variant 11 cap for free connector Figure 6 – Connector derating diagram Table 1 – Dimensions of fixed connector, variant 11 Table 2 – Dimensions of free connector, variant 11 Table 3 – Mounting information Table 4 – Dimensions of cap for fixed connector variant 11 Table 5 – Dimensions of cap for free connector variant 11 Table 6 – Climatic categories – Selected values for environmental performance level A Table 7 – Table 8 – Test group P Table 9 – Test group AP – Dynamic/climatic Table 10 – Test group BP – Mechanical	Bibliograp	ohy		22	
Figure 2 – Variant 11, free connector Figure 3 – Variant 11 mounting Figure 4 – Variant 11 cap for fixed connector Figure 5 – Variant 11 cap for free connector Figure 6 – Connector derating diagram Table 1 – Dimensions of fixed connector, variant 11 Table 2 – Dimensions of free connector, variant 11 Table 3 – Mounting information Table 4 – Dimensions of cap for fixed connector variant 11 Table 5 – Dimensions of cap for free connector variant 11 Table 6 – Climatic categories – Selected values for environmental performance level A Table 7 – Table 8 – Test group P Table 9 – Test group AP – Dynamic/climatic Table 10 – Test group BP – Mechanical	Figure 1 -	– Varia	nt 11, fixed connector	9	
Figure 3 – Variant 11 mounting Figure 4 – Variant 11 cap for fixed connector Figure 5 – Variant 11 cap for free connector Figure 6 – Connector derating diagram Table 1 – Dimensions of fixed connector, variant 11 Table 2 – Dimensions of free connector, variant 11 Table 3 – Mounting information Table 4 – Dimensions of cap for fixed connector variant 11 Table 5 – Dimensions of cap for free connector variant 11 Table 6 – Climatic categories – Selected values for environmental performance level A Table 7 – Table 8 – Test group P Table 9 – Test group AP – Dynamic/climatic Table 10 – Test group BP – Mechanical	-				
Figure 5 – Variant 11 cap for free connector Figure 6 – Connector derating diagram Table 1 – Dimensions of fixed connector, variant 11 Table 2 – Dimensions of free connector, variant 11 Table 3 – Mounting information Table 4 – Dimensions of cap for fixed connector variant 11 Table 5 – Dimensions of cap for free connector variant 11 Table 6 – Climatic categories – Selected values for environmental performance level A Table 7 – Table 8 – Test group P Table 9 – Test group AP – Dynamic/climatic Table 10 – Test group BP – Mechanical	•				
Figure 6 – Connector derating diagram Table 1 – Dimensions of fixed connector, variant 11 Table 2 – Dimensions of free connector, variant 11	Figure 4 -	– Varia	nt 11 cap for fixed connector	12	
Table 1 – Dimensions of fixed connector, variant 11 Table 2 – Dimensions of free connector, variant 11 Table 3 – Mounting information Table 4 – Dimensions of cap for fixed connector variant 11 Table 5 – Dimensions of cap for free connector variant 11 Table 6 – Climatic categories – Selected values for environmental performance level A Table 7 – Table 8 – Test group P Table 9 – Test group AP – Dynamic/climatic Table 10 – Test group BP – Mechanical	Figure 5 -	– Varia	nt 11 cap for free connector	13	
Table 2 – Dimensions of free connector, variant 11	Figure 6 -	– Conn	ector derating diagram	15	
Table 3 – Mounting information Table 4 – Dimensions of cap for fixed connector variant 11 Table 5 – Dimensions of cap for free connector variant 11 Table 6 – Climatic categories – Selected values for environmental performance level A Table 7 – Table 8 – Test group P Table 9 – Test group AP – Dynamic/climatic Table 10 – Test group BP – Mechanical	Table 1 –	Dimen	sions of fixed connector, variant 11	10	
Table 4 – Dimensions of cap for fixed connector variant 11	Table 2 –	Dimen	sions of free connector, variant 11	11	
Table 5 – Dimensions of cap for free connector variant 11	Table 3 –	Mount	ing information	11	
Table 6 – Climatic categories – Selected values for environmental performance level A Table 7 – Table 8 – Test group P Table 9 – Test group AP – Dynamic/climatic Table 10 – Test group BP – Mechanical	Table 4 –	Dimen	sions of cap for fixed connector variant 11	12	
Table 7 – Table 8 – Test group P Table 9 – Test group AP – Dynamic/climatic Table 10 – Test group BP – Mechanical	Table 5 –	Dimen	sions of cap for free connector variant 11	13	
Table 8 – Test group P Table 9 – Test group AP – Dynamic/climatic Table 10 – Test group BP – Mechanical	Table 6 –	Climat	tic categories – Selected values for environmental performance level A	14	
Table 9 – Test group AP – Dynamic/climatic Table 10 – Test group BP – Mechanical	Table 7 –	·		14	
Table 10 – Test group BP – Mechanical	Table 8 –	Test g	roup P	18	
• .	Table 9 –	Test g	roup AP – Dynamic/climatic	19	
Table 11 – Test group CP – Continuity	Table 10	– Test	group BP – Mechanical	20	
	Table 11	– Test	group CP – Continuity	21	

_ 4 _

61076-3-114 @ IEC:2009

INTERNATIONAL ELECTROTECHNICAL COMMISSION

CONNECTORS FOR ELECTRONIC EQUIPMENT – PRODUCT REQUIREMENTS –

Part 3-114: Rectangular connectors – Detail specification for protective housings for use with 8-way shielded and unshielded connectors for frequencies up to 600 MHz for industrial environments incorporating the IEC 60603-7 series interface –

Variant 11 related to IEC 61076-3-106 –

Bayonet coupling type

FOREWORD

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International Standard IEC 61076-3-114 has been prepared by subcommittee 48B: Connectors, of IEC technical committee 48: Electromechanical components and mechanical structures for electronic equipment.

This International Standard cancels and replaces IEC/PAS 61076-3-114 (2005).

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- 5 -

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

FDIS	Report on voting
48B/1995/FDIS	48B/2013/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.

A list of all parts of IEC 61076 series, under the general title *Connectors for electronic* equipment – *Product requirements*, can be found on the IEC website.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

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.

- 6 **-**

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INTRODUCTION

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

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-7-

CONNECTORS FOR ELECTRONIC EQUIPMENT – PRODUCT REQUIREMENTS –

Part 3-114: Rectangular connectors – Detail specification for protective housings for use with 8-way shielded and unshielded connectors for frequencies up to 600 MHz for industrial environments incorporating the IEC 60603-7 series interface –

Variant 11 related to IEC 61076-3-106 –

Bayonet coupling type

1 General data

1.1 Scope

This part of IEC 61076 covers protective housings for upgrading existing 8-way shielded and unshielded connectors utilizing the interface described in IEC 60603-7-2, IEC 60603-7-3, IEC 60603-7-4, IEC 60603-7-5, and IEC 60603-7-7 to IP65 and IP67 ratings, according to IEC 60529, for use in industrial environments.

The housings cover a variety of different locking mechanisms and a variety of different mounting configurations and termination types which are detailed in IEC 60603-7.

Common mating configurations for all variants are defined in IEC 60603-7. The mating dimensions for the housings under Clause 3 allow the mating conditions according to IEC 60603-7 to be fulfilled.

The fully assembled variants (connectors) described in this standard incorporate fixed and free connectors which are fully compliant with IEC 60603-7.

1.2 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 60050-581:2008, International Electrotechnical Vocabulary (IEV) – Part 581: Electromechanical components for electronic equipment

IEC 60068-1, Environmental testing – Part 1: General and guidance

IEC 60068-2-14, Environmental testing – Part 2-14: Tests – Test N: Change of temperature

IEC 60068-2-30, Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic (12 h + 12 h cycle)

IEC 60512-1, Connectors for electronic equipment – Tests and measurements – Part 1: General

IEC 60512-1-100, Connectors for electronic equipment – Tests and measurements – Part 1-100: General – Applicable publications ²

² The various parts of IEC 60512 are listed in IEC 60512-1-100.



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