



SLOVENSKI STANDARD SIST EN 3155-009:2009

01-januar-2009

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Aerospace series - Electrical contacts used in elements of connection - Part 009:
Contacts, electrical, female, type A, crimp, class S - Product standard

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen -
Teil 009: Elektrische Buchsenkontakte, Typ A, crimpbar, Klasse S - Produktnorm

Série aérospatiale - Contacts électriques utilisés dans les organes de connexion - Partie
009 : Contacts électriques, femelles, type A, à sertir, classe S - Norme de produit

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Ta slovenski standard je istoveten z: EN 3155-009:2006

ICS:

49.060 Š^cp \ æš Ą^• [|b \ æ Aerospace electric
^|\ dā } æ [] ! ^ { æš Ą ã c { ã equipment and systems

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 3155-009

July 2006

ICS 49.060

English Version

**Aerospace series - Electrical contacts used in elements of
connection - Part 009: Contacts, electrical, female, type A,
crimp, class S - Product standard**

Série aérospatiale - Contacts électriques utilisés dans les
organes de connexion - Partie 009 : Contacts électriques,
femelles, type A, à sertir, classe S - Norme de produit

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung
in Verbindungselementen - Teil 009: Elektrische
Buchsenkontakte, Typ A, crimpbar, Klasse S -
Produktnorm

This European Standard was approved by CEN on 3 February 2006.

CEN 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 CEN member.

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

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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EUROPÄISCHES KOMITEE FÜR NORMUNG

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Contents

Page

Foreword.....	3
0 Introduction	4
1 Scope	4
2 Normative references	4
3 Definitions	5
4 Required characteristics	5
4.1 Specific characteristics.....	5
4.2 Dimensions and mass.....	5
4.3 Marking by colour code	8
4.4 Material, surface treatment.....	8
4.5 Permissible cables	8
4.6 Tooling	9
4.7 Cable stripping.....	11
4.8 Tests.....	12
4.9 Gauges.....	13
5 Designation	13
6 Marking	14
7 Technical specification	14

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Foreword

This European Standard (EN 3155-009:2006) has been prepared by the AeroSpace and Defense Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by **January 2007**, and conflicting national standards shall be withdrawn at the latest by **January 2007**.

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

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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EN 3155-009:2006 (E)**0 Introduction**

The contacts defined by this standard are derived from those of MIL-C-39029/56 and, intermateable with those of MIL-C-39029/58.

1 Scope

This standard specifies the required characteristics, tests and tooling applicable to female electrical contacts 009, type A, crimp, class S, used in elements of connection according to EN 3155-002.

It shall be used together with EN 3155-001.

The associated male contacts are defined in EN 3155-008.

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.

EN 2083, *Aerospace series — Copper or copper alloy conductors for electrical cables — Product standard*

EN 2591 (series), *Aerospace series — Elements of electrical and optical connection — Test methods*

EN 3155-001, *Aerospace series — Electrical contacts used in elements of connection — Part 001: Technical specification*

EN 3155-002, *Aerospace series — Electrical contacts used in elements of connection — Part 002: List and utilization of contacts*

EN 3155-008, *Aerospace series — Electrical contacts used in elements of connection — Part 008: Contacts, electrical, male, type A, crimp, class S — Product standard*

EN 4008-009, *Aerospace series — Elements of electrical and optical connection — Crimping tools and associated accessories — Part 009: Positioner for crimping tool M22520/23 — Product standard¹⁾*

EN 4008-010, *Aerospace series — Elements of electrical and optical connection — Crimping tools and associated accessories — Part 010: Head for crimping tool M22520/23 — Product standard¹⁾*

ISO 8843, *Aircraft — Crimp-removable contacts for electrical connectors — Identification system*

MIL-DTL-22520, *Crimping tools, terminal, hand or power actuated, wire termination, and tool kits, general specification for²⁾*

MIL-C-22520/1, *Crimping tools, terminal, hand, wire termination for wire barrel sizes 12 through 20²⁾*

MIL-C-22520/2, *Crimping tools, terminal, hand, wire termination for wire barrel sizes 20 through 28²⁾*

MIL-C-22520/7, *Crimping tools, terminal, hand, wire termination for wire barrel sizes 16, 20 and 22²⁾*

MIL-C-22520/23, *Crimping tools, terminal, hand or power actuated, wire termination: pneumatic tool for wire barrel sizes 0000 through 8²⁾*

MIL-C-39029, *Contacts, electrical connector, general specification for²⁾*

MIL-C-39029/56, *Contacts, electrical connector, socket, crimp removable (for MIL-C-38999 series I, III and IV connector)²⁾*

MIL-C-39029/58, *Contacts, electrical connector, pin, crimp removable (for MIL-C-24308, MIL-C-38999 series I, II, III and IV, and MIL-C-55302/69 and MIL-C-83733 connectors)²⁾*

MIL-I-81969, *Installing and removal tools, connector electrical contact, general specification for²⁾*

MIL-I-81969/14, *Installing and removal tools, connector electrical contact, type III, class 2, composition B²⁾*

MIL-I-81969/18, *Installing and removal tools, connector electrical contact, type I, class 1, composition C²⁾*

MIL-I-81969/30, *Installing and removal tools, connector electrical contact, type II, class 2, composition C for unwired²⁾*

1) In preparation at the date of this standard.

2) Published by: Department of Defense (DOD), the Pentagon, Washington D.C. 20301 USA.

3 Definitions

For the purposes of this standard, the definitions given in EN 3155-001 apply.

4 Required characteristics

4.1 Specific characteristics

Type A contacts are for general application and class S corresponds to an operating temperature range from – 65 °C to 200 °C.

4.2 Dimensions and mass

See Figure 1 and Table 1.

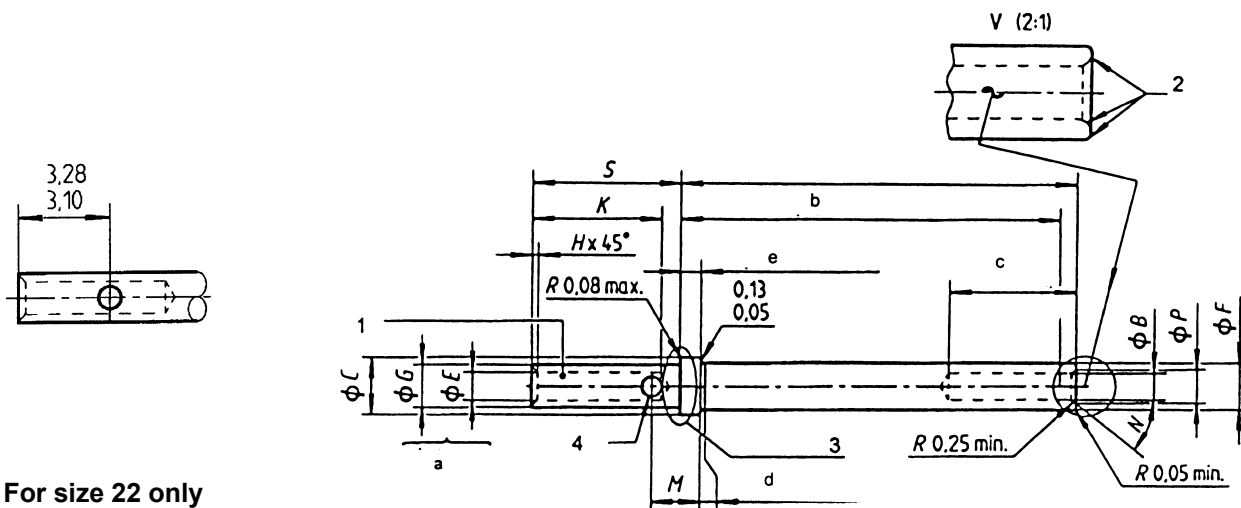
Dimensions and tolerances are given in millimetres and apply after surface treatment.

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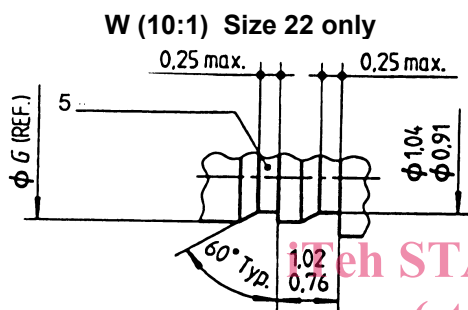
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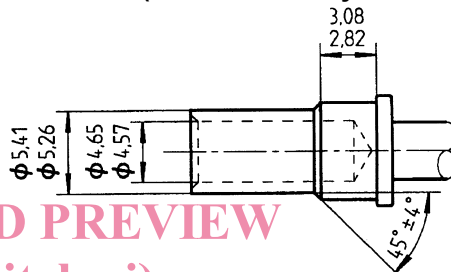
EN 3155-009:2006 (E)



For size 22 only



X (3:1) Size 10 only



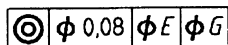
Key

- 1 Colour bands see Table 2
- 2 One full radius permissible
- 3 W, X and Y

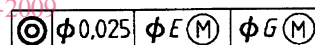
- 4 $\varnothing G$ and $\varnothing E^a$
- 5 Identification groove optional

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a for size 22

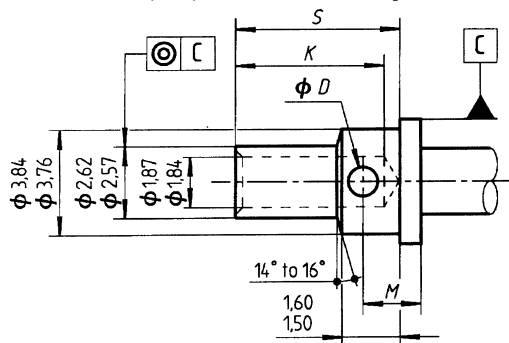


; for all other sizes

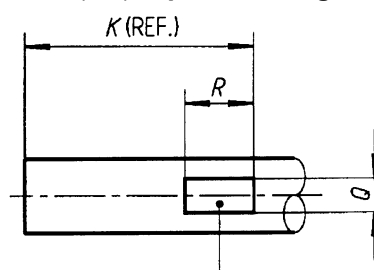


- b 14,86 min., point at which a square ended gauge pin of the same basic diameter as the mating contact first engages the female contact spring member.
- c 4,22 min., this dimension represents both the length of the bore $\varnothing B$ which includes the active zone of protection (see EN 3155-001, 5.3.2).
- d 0,15 max., clearance between sleeve and body of the contact.
- e 0,84
0,74, not applicable for contact size 22

Y (5:1) Size 12-14 only



Z (5:1) Optional design



Key

- 1 14° to 16°

Figure 1

Table 1

Size		B min.	C	D	E	F max.	G	H	J
Contact	Barrel								
22	22	0,78	1,57	0,56	0,902	1,57	1,22	0,13	15,90
			1,52	0,46	0,851		1,17	0,08	15,65
20	20	1,05	2,39	0,81	1,22	1,98	1,78	0,25	15,90
			2,31	0,66	1,17		1,73	0,13	15,65
20	18	1,05	2,39	0,81	1,35	1,98	1,78	0,25	15,90
			2,31	0,66	1,30		1,73	0,13	15,65
16	16	1,63	3,30	1,07	1,73	2,87	2,62	0,25	15,90
			3,23	0,91	1,68		2,57	0,13	15,65
16	14	1,63	3,30	1,07	1,87	2,87	2,62	0,25	15,90
			3,23	0,91	1,84		2,57	0,13	15,65
12	12	2,43	4,62	1,07	2,59	4,09	3,84	0,41	15,90
			4,55	0,91	2,49		3,76	0,13	15,65
12	14	2,43	4,62	0,80	1,87	4,09	3,84	0,41	15,90
			4,55	0,70	1,84		3,76	0,13	15,65
10	10	3,21	6,15	1,32	3,56	5,46	5,41	0,41	15,90
			6,05	1,17	3,40		5,26	0,13	15,65

Size		K	M	N°	P	Q	R	T	Mass g max.
Contact	Barrel								
22	22	3,58 min.	—	50	1,20	0,56	1,17	6,02	0,20
		5,31 min.	1,98	44		0,46		5,87	
20	20	5,31 min.	1,98	47	1,35	0,81	1,60	6,02	0,30
		5,31 min.	1,83	40		0,66		5,87	
20	18	5,31 min.	1,98	47	1,35	0,81	1,60	6,02	0,30
		5,31 min.	1,83	40		0,66		5,87	
16	16	5,31 min.	2,24	47	2,14	1,07	1,85	6,02	0,70
		5,31 min.	2,08	40		0,76		5,87	
16	14	5,31 min.	2,24	47	2,14	1,07	1,85	6,02	0,70
		5,31 min.	2,08	40		0,76		5,87	
12	12	5,31 min.	2,24	47	3,00	1,07	1,85	6,02	1,30
		5,31 min.	2,08	40		0,76		5,87	
12	14	5,31 min.	1,74	47	3,00	1,07	1,85	6,02	1,30
		5,31 min.	1,64	40		0,76		5,87	
10	10	9,78	2,24	See Figure 1	See Figure 1	Not applicable	Not applicable	10,29	1,38
		9,02	2,08			10,03			