SLOVENSKI STANDARD

SIST EN 3155-008:2006

01-september-2006

Aeronavtika ï Elektriļ ni kontakti za uporabo v veznih elementih ï 008. del: Elektriļ ni kontakti, moġki, tip A, nagubani, razred S ï Standard za proizvod

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

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen - Teil 008: Elektrische Stiftkontakte, Typ A, crimpbar, Klasse S - Produktnorm

Série aérospatiale - Contacts électriques utilisés dans les organes de connexion et optique - Partie 008 : Contacts électriques, mâles, type A, a sertir, classe S - Norme de produit

Ta slovenski standard je istoveten z: **EN 3155-008:2005**

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English Version

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This European Standard (EN 3155-008:2005) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-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 AECMA, 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of an identical text or by endorsement, at the latest by June 2006, and conflicting national standards shall be withdrawn at the latest by June 2006.

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Introduction

The contacts defined by this standard are derived from those of MIL-C-39029/58 and intermateable with those of MIL-C-39029/56 and MIL-C-39029/57.

1 Scope

This standard specifies the required characteristics, tests and tooling applicable to male electrical contacts 008, 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 female contacts are defined in EN 3155-003 and EN 3155-009.

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.

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

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

EN 2591*, *Aerospace series — Elements of electrical and optical connection — Test methods — General.*

EN 3155-001, *Aerospace series — Electrical contacts used in elements of connection — Part 001: Technical specification.*[1)]

EN 3155-002, *Aerospace series — Electrical contacts used in elements of connection — Part 002: List and utilization of contacts.*[1)]

EN 3155-003, *Aerospace series — Electrical contacts used in elements of connection — Part 003: Contacts, electrical, female, type A, crimp, class S — Product standard.*[1)]

EN 3155-009, *Aerospace series — Electrical contacts used in elements of connection — Part 009: Contacts, electrical, female, type A, crimp, class S — Product standard.*[1)]

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 standard.*[2)]

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 standard.*[2)]

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* All its parts quoted in this standard.

1) Published as AECMA Prestandard at the date of publication of this standard.

2) In preparation at the date of publication of this standard.

MIL-DTL-22520, *Crimping tools, terminal, hand or power actuated, wire termination, and tool kits general specification for.*[3)]

MIL-C-39029, *Contacts, electrical connector, general specification for.*[3)]

MIL-C-39029/56, *Contacts, electrical connector, socket, crimp removable (for MIL-C-38999 series I, III and IV connectors).*[3)]

MIL-C-39029/57, *Contacts, electrical connector, socket, crimp removable (for MIL-C-24308, MIL-C-38999 series II, MIL-C-55302/68, /71, /72, /75 and MIL-C-83733 connectors).*[3)]

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).*[3)]

MIL-I-81969, *Installing and removal tools, connector electrical contact, general specification for.*[3)]

3 Terms and definitions

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

4 Required characteristics

4.1 Specific characteristics

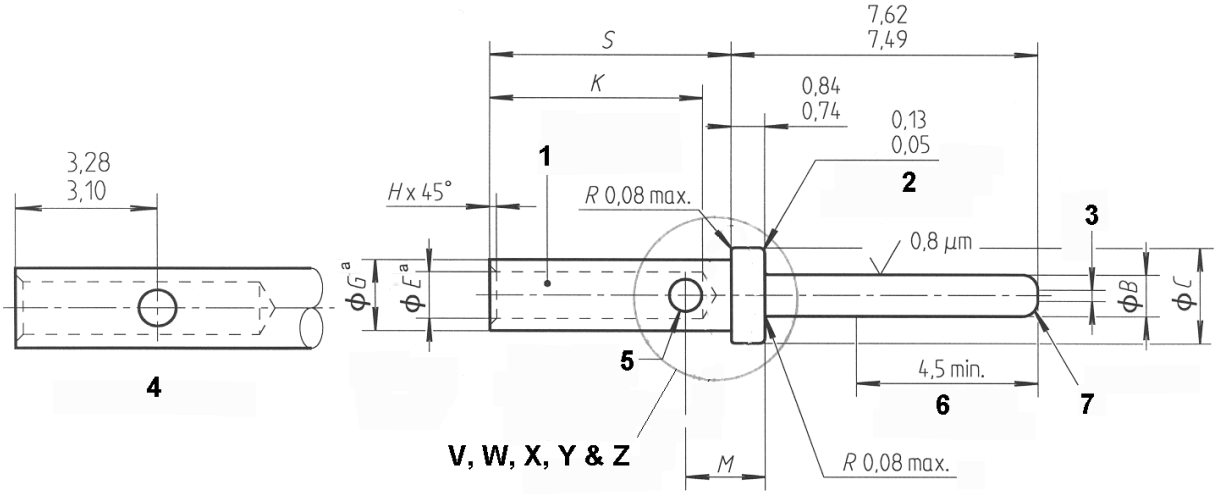
Type A contacts are for general application and class S corresponds to an operating temperature range from – 65 °C to 200 °C.

4.2 Dimensions and mass

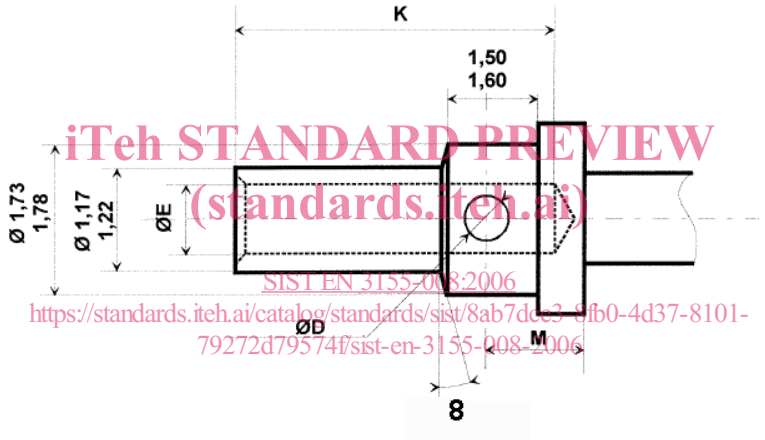
See Figure 1 and Table 1.

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

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



V (5:1) **Size 20–22 only**



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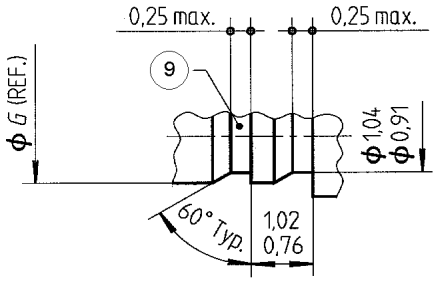

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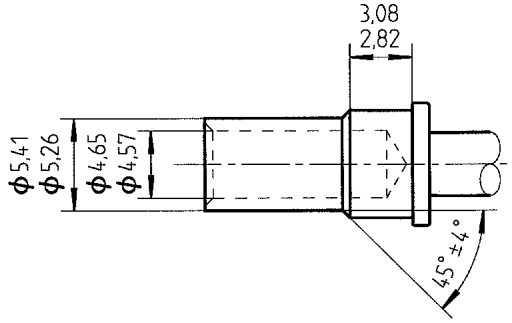

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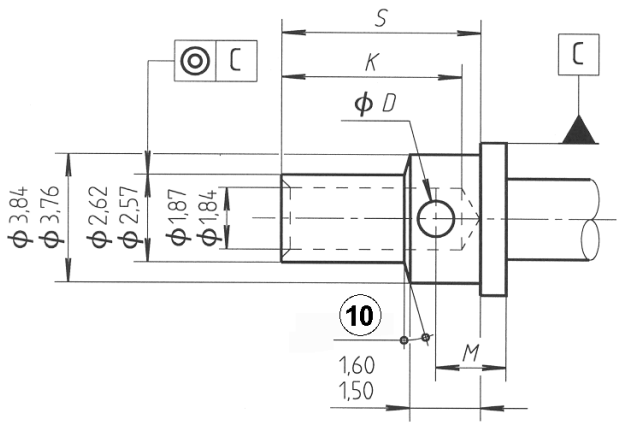
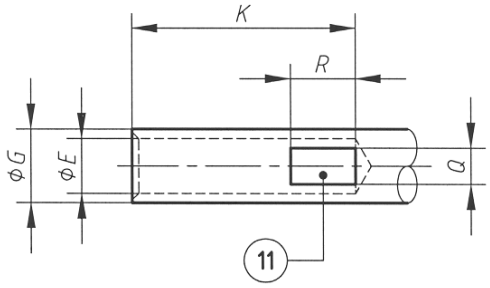
Y (5:1) **Size 12–14 only**



Z (5:1) **Optional design**



Key

1 Colour bands, see Table 2.
2 Break or radius leading edge
3 *F* flat
4 For size 22 only
5 Inspection hole ∅ *D* (one side only). See detail Z
6 Contact active area protection
7 Radius *A*
8 14° to 16°
9 Identification groove optional
10 14° to 16°
11 Inspection hole one side only

[a] – for size 22 | ◎ | ∅ 0,08 | ∅ *E* | ∅ *G* |

– for all other sizes | ◎ | ∅ 0,025 | ∅ *E* Ⓜ | ∅ *G* Ⓜ |

Figure 1 *(concluded)*

Table 1

Size		*A*	*B*	*C*	*D*	*E*	*F*	*G*	*H*	*K*	*M*	*Q*	*R*	*S*	**Mass**
Contact	**Barrel**	radius								REF.					g max.
22	22	0,51 0,25	0,774 0,749	1,57 1,52	0,56 0,46	0,902 0,851	0,28 max.	1,22 1,17	0,13 0,08	3,99 3,58	–	0,56 0,46	1,17 0,46	6,02 5,87	0,07
20	22	0,64 0,38	1,04 0,99	2,39 2,31	0,56 0,46	0,902 0,851	0,38 max	1,22 1,17	0,13 0,08	3,99 3,58	–	0,56 0,46	1,17 0,46	6,02 5,87	0.13
20	20	0,64 0,38	1,04 0,99	2,39 2,31	0,81 0,66	1,22 1,17	0,38 max.	1,78 1,73	0,25 0,13	5,82 5,31	1,98 1,83	0,81 0,66	1,60 0,66	6,02 5,87	0,13
20	18	0,64 0,38	1,04 0,99	2,39 2,31	0,81 0,66	1,35 1,30	0,38 max.	1,78 1,73	0,25 0,13	5,82 5,31	1,98 1,83	0,81 0,66	1,60 0,66	6,02 5,87	0,13
16	16	0,64 0,51	1,613 1,562	3,30 3,23	1,07 0,91	1,73 1,68	0,76 0,28	2,62 2,57	0,25 0,13	5,82 5,31	2,24 2,08	1,07 0,76	1,85 0,91	6,02 5,87	0,31
16	14	0,64 0,51	1,613 1,562	3,30 3,23	1,07 0,91	1,87 1,84	0,76 0,28	2,62 2,57	0,25 0,13	5,82 5,31	2,24 2,08	1,07 0,76	1,85 0,91	6,02 5,87	0,31
12	12	0,64 0,51	2,41 2,36	4,62 4,55	1,07 0,91	2,59 2,49	1,57 1,09	3,84 3,76	0,41 0,13	5,82 5,31	2,24 2,08	1,07 0,76	1,85 0,91	6,02 5,87	0,68
12	14	0,64 0,51	2,41 2,36	4,62 4,55	0,80 0,70	1,87 1,84	1,57 1,09	3,84 3,76	0,41 0,13	5,82 5,31	1,74 1,64	1,07 0,76	1,85 0,91	6,02 5,87	0,68
10	10	0,64 0,51	3,20 3,15	6,15 6,05	1,32 1,02	3,56 3,40	2,39 1,88	5,41 5,26	0,41 0,13	9,78 9,02	2,24 2,08	not appli-cable	not appli-cable	10,29 10,03	1,38