



SLOVENSKI STANDARD
SIST EN 3155-070:2008
01-marec-2008

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Aerospace series - Electrical contacts used in elements of connection - Part 070:
Contacts, electrical, male, type A, crimp, class S - Product standard

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen -
Teil 070: Elektrische Stiftkontakte, Typ A, crimpbar, Klasse S - Produktnorm

ITeh STANDARD PREVIEW

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

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ICS 49.060

English Version

Aerospace series - Electrical contacts used in elements of
connection - Part 070: Contacts, electrical, male, type A, crimp,
class S - Product standard

Série aérospatiale - Contacts électriques utilisés dans les
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Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung
in Verbindungselementen - Teil 070: Elektrische
Stiftkontakte, Typ A, crimpbar, Klasse S - Produktnorm

This European Standard was approved by CEN on 23 May 2007.

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 CEN Management Centre 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 CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, 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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Contents

Page

Introduction	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	5
4 Required characteristics	5
4.1 Specific characteristics	5
4.2 Dimensions and mass	5
4.3 Marking by colour code	7
4.4 Material, surface treatment	7
4.5 Permissible cables	7
4.6 Tooling	7
4.7 Cable stripping	8
4.8 Tests	8
4.9 Gauges	10
5 Designation	10
6 Marking	10
7 Technical specification	10

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Foreword

This document (EN 3155-070:2007) has been prepared by the Aerospace and Defence 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 June 2008, and conflicting national standards shall be withdrawn at the latest by June 2008.

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, Bulgaria, 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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Introduction

The contacts defined by this standard are derived from those of SAE-AS39029/58 and intermateable with those of SAE-AS39029/56 and SAE-AS39029/57.

1 Scope

This standard specifies the required characteristics, tests and tooling applicable to male electrical contacts 070, 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, EN 3155-009 and EN 3155-071.

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 alloys conductors for electrical cables — Product standard.*

EN 2591-*, *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.* ¹⁾

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

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

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

EN 3155-071, *Aerospace series — Electrical contacts used in elements of connection — Part 071: Contacts, electrical, female, type A, crimp, class S — Product standard.*

EN 4434, *Aerospace series — Copper or copper alloy lightweight conductors for electrical cables — Product standard (Normal and tight tolerances).*

* All parts quoted in Table 7.

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

MIL-DTL-22520, *Crimping tools, wire termination, general specification for.* ²⁾

MIL-I-81969, *Installing and removal tools, connector electrical contact, general specification for.* ²⁾

SAE-AS39029, *Contacts, electrical connector, general specification for.* ³⁾

SAE-AS39029/56, *Contacts, electrical connector, socket, crimp removable (for MIL-C-38999 series I, III and IV connectors).* ³⁾

SAE-AS39029/57, *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⁾

SAE-AS39029/58, *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⁾

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.

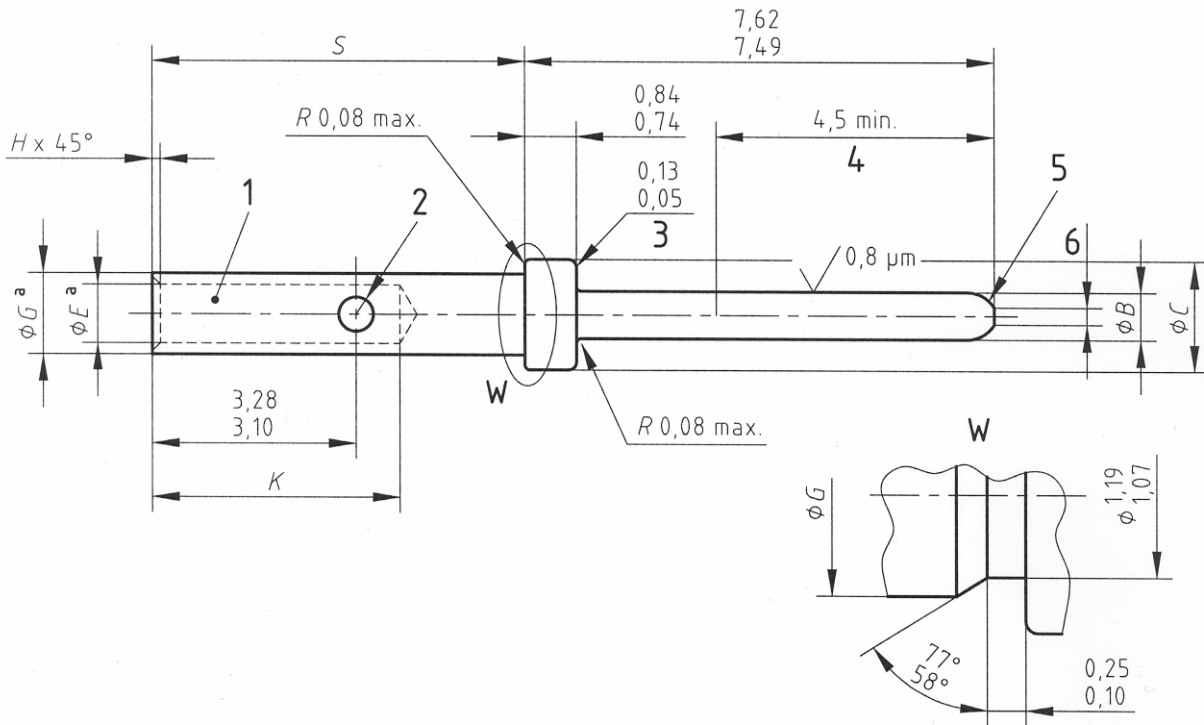
4.2 Dimensions and mass

See Figure 1 and Table 1.

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

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

3) Published by: Society of Automotive Engineering (SAE), 400 Commonwealth Drive, Warrendale, PA 15096, USA.



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Key

- 1 Colour bands, see Table 2.
- 2 Inspection hole $\varnothing D$ (one side only).
- 3 Break or radius leading edge
- 4 Contact active area protection
- 5 Radius A
- 6 F flat

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^a

◎	$\varnothing 0,08$	$\varnothing E$	$\varnothing G$
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Figure 1

Table 1

Size		A	B	C	D	E	F	G	H	K	S	Mass
Contact	Barrel	radius					max.	REF.				g
22	22	0,51 0,25	0,774 0,749	1,80 1,75	0,56 0,46	0,953 0,902	0,28	1,32 1,27	0,13 0,08	3,99 3,58	6,02 5,87	0,07

4.3 Marking by colour code

See Table 2.

Table 2

Size		Two bands according to ISO 8843		Three bands according to SAE-AS39029/58 ^a		
Contact	Barrel	① Band 1	② Band 2	① Band 1	② Band 2	③ Band 3
22	22	Green	Green	Orange	Blue	Red

^a Contacts supplied with three colour bands must conform to this EN standard.

4.4 Material, surface treatment

- Body material: copper alloy
- Surface treatment: gold on appropriate undercoat, thickness of protection not specified, selective protection permitted

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4.5 Permissible cables

See Table 3.

Table 3

Size		Size of conductors			Rated test current A
Contact	Barrel	AECMA Code	Section mm ²	AWG ^a	
22	22	004	0,40	22	5
		002	0,25	24	3
		001	0,15	26	2

^a AWG = Closest American Wire Gage.

4.6 Tooling

4.6.1 Crimping tools

Conform to MIL-DTL-22520, see Table 4.

The qualification selector numbers used for crimping copper or copper alloy conductors in cables EN 2083 and EN 4434 are indicated in Table 4.

It is the responsibility of the user if the parameters in Table 4 are changed for service use.