

SLOVENSKI STANDARD

SIST EN 3155-067:2009

01-maj-2009

Aeronavtika - Električni kontakti za uporabo v veznih elementih - 067. del:
Kontakti, električni, koaksialni, velikost 08, moški, tip D, za spajkanje, razred R -
Standard za proizvod

Aerospace series - Electrical contacts used in elements of connection - Part 067:
Contacts, electrical, coaxial, size 08, male, type D, solder, class R - Product standard

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen -
Teil 067: Elektrische koaxial Stiftkontakte, Gr⁰/₈e 08, Typ D, zum L¹/₄en, Klasse R -
Produktnorm

Série aérospatiale - Contacts électriques utilisés dans les organes de connexion - Partie
067: Contacts électriques, coaxiaux, taille 08, mâles, type D, à souder, classe R - Norme
de produit

Ta slovenski standard je istoveten z: EN 3155-067:2009

ICS:

49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 3155-067

February 2009

ICS 49.060

English Version

**Aerospace series - Electrical contacts used in elements of
connection - Part 067: Contacts, electrical, coaxial, size 08,
male, type D, solder, class R - Product standard**

Série aérospatiale - Contacts électriques utilisés dans les
organes de connexion - Partie 067: Contacts électriques,
coaxiaux, taille 08, mâles, type D, à souder, classe R -
Norme de produit

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung
in Verbindungselementen - Teil 067: Elektrische coaxial
Stiftkontakte, Größe 08, Typ D, zum Löten, Klasse R -
Produktnorm

This European Standard was approved by CEN on 4 July 2008.

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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Foreword

This document (EN 3155-067:2009) 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 August 2009, and conflicting national standards shall be withdrawn at the latest by August 2009.

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 contact defined by this standard is derived and interchangeable with that of SAE-AS39029/60.

1 Scope

This standard specifies the required characteristics, tests and tooling applicable to male coaxial electrical contacts, size 08, type D, solder, class R, 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 3155-068.

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 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 3155-068, *Aerospace series — Electrical contacts used in elements of connection — Part 068: Contacts, electrical, coaxial, size 08, female, type D, solder, class R — Product standard*

QQ-S-571, *Solder, tin alloy: tin-lead alloy and lead alloy*²

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

MIL-PRF-5606, *Hydraulic fluid, petroleum base, aircraft, missile and ordnance*²

MIL-PRF-7808, *Lubricating oil, aircraft turbine engine, synthetic base, NATO code number O-148*²

MIL-PRF-7870, *Lubricating oil: general purpose, low temperature*²

MIL-PRF-23699, *Lubricating oil, aircraft turbine engine, synthetic base, NATO code number O-156*²

MIL-PRF-87937, *Cleaning compound aerospace equipment*²

* All parts quoted in this document.

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

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

SAE-AMS1424, *Fluid, deicing/anti-icing, aircraft, SAE type I*³

SAE-AS1241, *Fire resistant phosphate ester hydraulic fluid for aircraft*³

SAE-AS39029/60, *Contacts, electrical connector, pin, crimp removable, shielded, size 8 (for MIL-C-38999 series I, III and IV connectors)*³

TR 6058, *Aerospace series — Cable code identification list*⁴

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 D contacts are for general application and class R corresponds to an operating temperature range from – 65 °C to 150 °C.

4.2 Dimensions and mass

See Figure 1.

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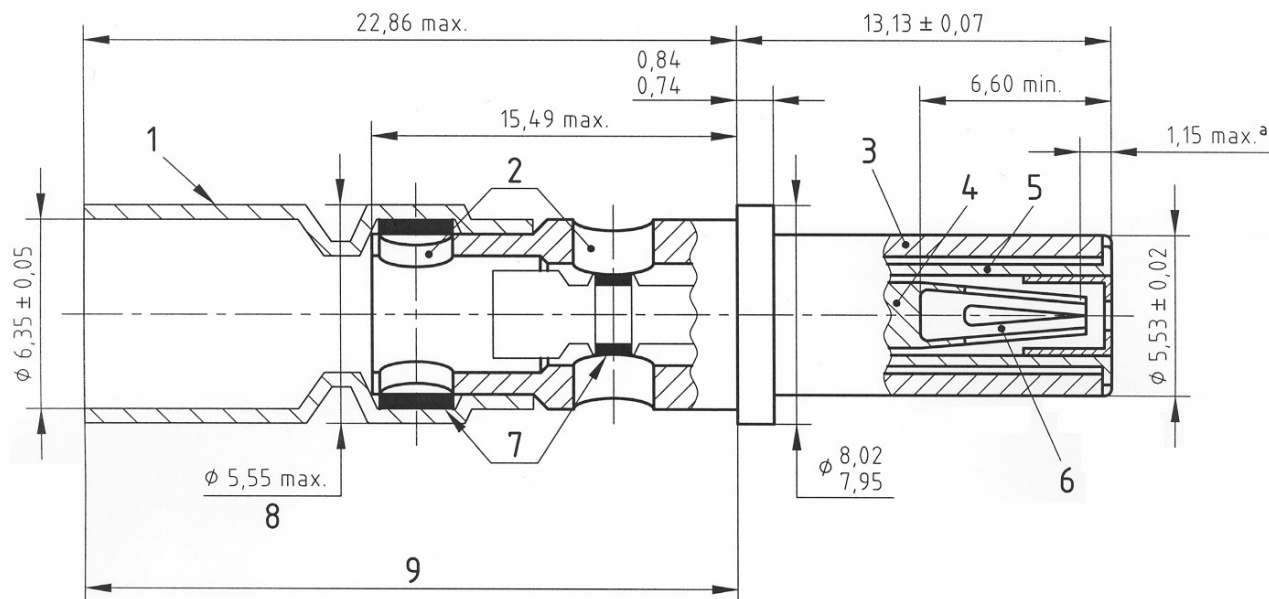
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3 Published by: Society of Automotive Engineering (SAE), 400 Commonwealth Drive, Warrendale, PA 15096, USA.

4 Published as ASD-STAN Technical Report at the date of publication of this standard.

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



Key

- | | | | |
|---|-----------------------------|---|-------------------------------|
| 1 | Heat shrinkable sleeve | 6 | Interface dimensions, see 4.9 |
| 2 | Inspection windows | 7 | Solder rings |
| 3 | Male external contact body | 8 | Diameter before assembly |
| 4 | Female central contact body | 9 | Heating zone |
| 5 | Dielectric | | |

^a See Note

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Figure 1

NOTE Point at which a square ended gauge pin of 0,901 mm basic diameter first engages the female contact spring member.

Mass maximum: 3,8 g.

4.3 Marking by colour code

Not applicable.

4.4 Material, surface treatment

4.4.1 Material

Contact body: copper alloy.

4.4.2 Protective coating

Gold on appropriate undercoat for copper alloy parts (silver is not allowed).

Thickness not specified.

4.4.3 Dielectric

ETFE Fluoropolymer.

4.4.4 Heat shrinkable tubing

Radiation cross-linked polyvinylidene fluoride.

4.4.5 Solder rings

Sn63 as per QQ-S-571.

4.5 Permissible cables

The cables should have dimensions within the values specified in Table 1.

Table 1 — Cable group A

Dimensions in millimetres

Cable group	Cable diameter $\varnothing$		min.	max.
Group A	Jacket	<i>A</i>	4,50	5,10
	Shield	<i>B</i>	3,50	4,30
	Dielectric	<i>C</i>	2,10	3,70
	Conductor	<i>D</i>	0,50	0,90
	Permissible cable code according to TR 6058		XF, WH, WM, WP	

4.6 Stripping of cables and wiring method

4.6.1 Assembly instructions

Strip cable as shown in Figure 2, 3 or 4.

Pre-tin central conductor with SN63.

Insert cable into contact until it is fully seated.

Heat contact with appropriate tools as shown on Figure 5 until solder melts and flows and strain relief tubing conforms to cable.

4.6.2 Preparation of coaxial cable

Depending upon dielectric diameter value there are three possibilities: