

SLOVENSKI STANDARD

SIST EN 3155-032:2009

01-julij-2009

**Aeronavtika - Električni kontakti za uporabo v veznih elementih - 032. del:
Kontakti, električni, koaksialni, 50 ohmov, velikost 5, moški, tip D, nagubani,
razred R - Standard za proizvod**

Aerospace series - Electrical contacts used in elements of connection - Part 032:
Contacts, electrical, coaxial, 50 ohms, size 5, male, type D, crimp, class R - Product
standard

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen -
Teil 032: Elektrische koaxiale, Stifkontakte, 50 Ohm, Größe 5, Typ D, crimpbar, Klasse R
- Produktnorm

Série aérospatiale - Contacts électriques utilisés dans les organes de connexion - Partie
032 : Contacts électriques coaxiaux, 50 ohms, taille 5, mâles, type D, à sertir, classe R -
Norme de produit

Ta slovenski standard je istoveten z: EN 3155-032:2009

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 3155-032

May 2009

ICS 49.060

English Version

**Aerospace series - Electrical contacts used in elements of
connection - Part 032: Contacts, electrical, coaxial, 50 ohms,
size 5, male, type D, crimp, class R - Product standard**

Série aérospatiale - Contacts électriques utilisés dans les
organes de connexion - Partie 032 : Contacts électriques
coaxiaux, 50 ohms, taille 5, mâles, type D, à sertir, classe
R - Norme de produit

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung
in Verbindungselementen - Teil 032: Elektrische koaxiale,
Stiftkontakte, 50 Ohm, Größe 5, Typ D, crimpbar, Klasse R
- Produktnorm

This European Standard was approved by CEN on 31 January 2009.

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.

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Contents

Page

Foreword.....	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Required characteristics	6
5 Designation	12
6 Marking	12
7 Delivery conditions	12
8 Technical specification	12
Bibliography	13

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Foreword

This document (EN 3155-032:2009) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

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 November 2009, and conflicting national standards shall be withdrawn at the latest by November 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.

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.

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-AS39029/99, and are intermateable with those of SAE-AS39029/100.

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1 Scope

This standard specifies the required characteristics, tests and tooling applicable to male electrical coaxial contacts, size 5, type D, crimp, 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 3155-033.

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 2591-100*, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 100: General*

EN 3155-001:2008, *Aerospace series — Electrical contacts used in elements of connection — Part 001: Technical specification*¹

EN 3682-001, *Aerospace series — Connectors, plug and receptacle, electrical, rectangular, interchangeable insert type, rack to panel, operating temperature 150 °C continuous — Part 001: Technical specification*

SAE-AS39029/99, *Contacts, electrical connector pin, crimp removable, coaxial, size 5 (for DOD-C-83527 connectors)*²

SAE-AS39029/100, *Contacts, electrical connector, socket, crimp removable, coaxial, size 5 (for DOD-C-83527 connectors)*²

MIL-DTL-22520G, *Crimping tools, wire termination, general specification for*³

MIL-I-81969/28, *Installing and removal tools, connector electrical contacts, type II, class 2, composition C*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 3155-001:2008 apply.

* All parts quoted in this document.

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

2 Published by: Society of Automotive Engineers, Inc. (SAE), 400 Commonwealth Drive, Warrendale, PA 15096-0001, USA.

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

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

EN 3155-032:2009 (E)

4 Required characteristics

4.1 Specific characteristics

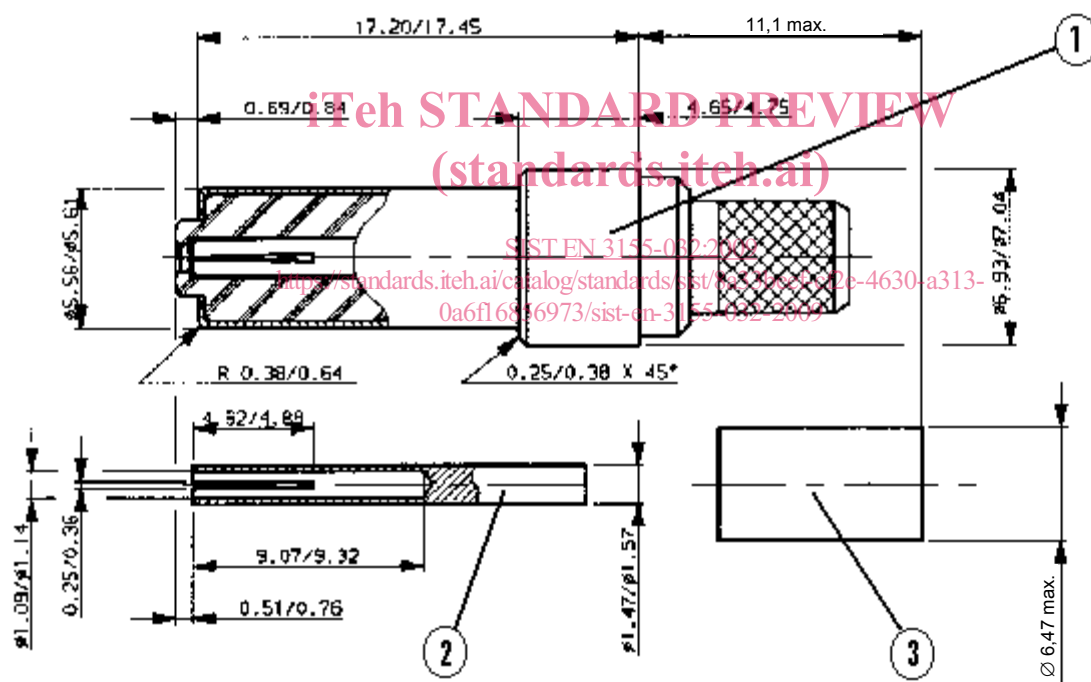
Type D contacts are for application where contacts with a screening feature are requested and class R corresponds to an operating temperature range from $-65\text{ }^{\circ}\text{C}$ to $150\text{ }^{\circ}\text{C}$.

4.2 Dimensions and mass

See Figure 1.

Mass: 48 g.

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



Key

- ① Outer body
- ② Center contact
- ③ Ferrule

Figure 1

4.3 Marking by colour code

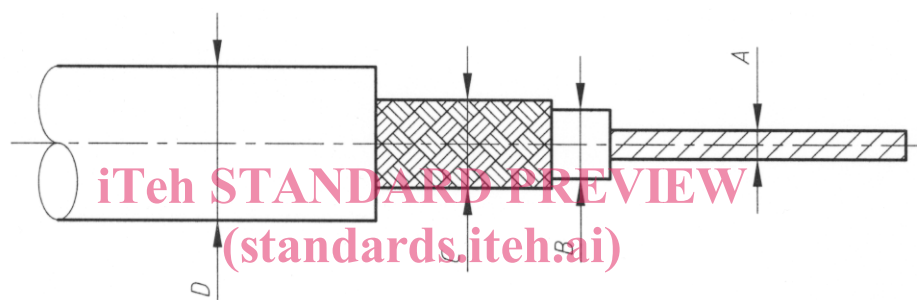
Not applicable.

4.4 Material, surface treatment

- Outer body material (male) : copper alloy.
- Center contact (female) : copper alloy.
- Crimp ferrule : copper alloy.
- Surface treatment : gold on appropriate undercoat, thickness of protection not specified, selective protection permitted.
- Dielectric : PTFE, or equivalent.

4.5 Typical cables

See Figure 2 and Table 1.



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Figure 2

Table 1

Permissible cable group code	Permissible cable code according to TR 6058	Dimensions of cable							
		A		B		C		D	
		min.	max.	min.	max.	min.	max.	min.	max.
A	XA	0,9	—	2,85	3,05	3,37	3,57	4,85	5,05
	XG	0,94	—	2,83	3,07	3,35	3,59	4,68	4,92
	XF	—	—	—	—	—	—	—	—
	WM	0,99	—	2,74	2,94	3,30	3,70	3,70	4,00

4.6 Cable stripping and wiring method

- a) Place the sealing sleeve ④ (semi environmental version only) and the ferrule ③ on the cable.
- b) Trim cable to dimensions shown on Figure 3.