

SLOVENSKI STANDARD

SIST EN 3155-035:2012

01-september-2012

Nadomešča:

SIST EN 3155-035:2009

Aeronavtika - Električni kontakti za uporabo v veznih elementih - 035. del:
Kontakti, električni, triaksialni, velikost 08, ženski, tip D, nagubani, razred R -
Standard za izdelek

Aerospace series - Electrical contacts used in elements of connection - Part 035:
Contacts, electrical, triaxial, size 08, female, type D, crimp, class R - Product standard

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Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen -
Teil 035: Elektrische triaxiale, Größe 08, Buchsenkontakte, Typ D, crimpbar, Klasse R -
Produktnorm

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Série aérospatiale - Contacts électriques utilisés dans les organes de connexion - Partie
035: Contacts électriques triaxiaux, taille 08, femelles, type D, à sertir, classe R - Norme
de produit

Ta slovenski standard je istoveten z: EN 3155-035:2012

ICS:

49.060

Letalska in vesoljska
električna oprema in sistemi

Aerospace electric
equipment and systems

SIST EN 3155-035:2012

en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 3155-035

March 2012

ICS 49.060

Supersedes EN 3155-035:2006

English Version

**Aerospace series - Electrical contacts used in elements of
connection - Part 035: Contacts, electrical, triaxial, size 08,
female, type D, crimp, class R- Product standard**

Série aérospatiale - Contacts électriques utilisés dans les
organes de connexion - Partie 035: Contacts électriques
triaxiaux, taille 08, femelles, type D, à sertir, classe R -
Norme de produit

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung
in Verbindungselementen - Teil 035: Elektrische triaxiale,
Grösse 08, Buchsenkontakte, Typ D, crimpbar, Klasse R -
Produktnorm

This European Standard was approved by CEN on 24 December 2011.

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-CENELEC 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-CENELEC Management Centre has the same status as the official versions.

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Foreword

This document (EN 3155-035:2012) 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 September 2012, and conflicting national standards shall be withdrawn at the latest by September 2012.

This document supersedes EN 3155-035:2006.

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Introduction

The electrical contacts defined in this standard are derived from and interchangeable with those of standard SAE AS 39029/95. They are also interchangeable with those of standard EN 3155-043.

1 Scope

This European Standard specifies the required characteristics, tests and tooling applicable to female electrical triaxial contacts, size 08, type D, crimp, class R, used in element of connection according to EN 3155-002.

It should be used together with EN 3155-001.

The associated male contacts are defined in EN 3155-034 and EN 3155-042.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2591 (all parts), *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 3155-034, *Aerospace series — Electrical contacts used in elements of connection — Part 034: Contacts, electrical, triaxial, size 08, male, type D, crimp, class R — Product standard*

EN 3155-042, *Aerospace series — Electrical contacts used in elements of connection — Part 042: Contacts, electrical, triaxial, size 08, male 042, type D, solder, class P — Product standard*

EN 3155-043, *Aerospace series — Electrical contacts used in elements of connection — Part 043: Contacts, electrical, triaxial, size 08, female 043, type D, solder, class P — Product standard*

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*

MIL-DTL-22520G, *Crimping tools, terminal, hand or power actuated, wire termination, and tool kits general specification for* ¹⁾

MIL-I-81969/14, *Installing and removal tools, connector electrical contact, type III, class 2, composition B* ¹⁾

¹⁾ Published by: Department of Defense (DOD), The Pentagon, Washington D.C. 20301, USA.

SAE AS 39029/95, *Contacts, electrical connector, concentric twinax, pin, size 8 (for DOD-C-83527 connector)* ²⁾

TR 6058, *Aerospace series — Cable code identification list* ³⁾

3 Terms and definitions

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

4 Requirements 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 °C to 150 °C.

4.2 Dimensions and mass

See Figure 1.

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

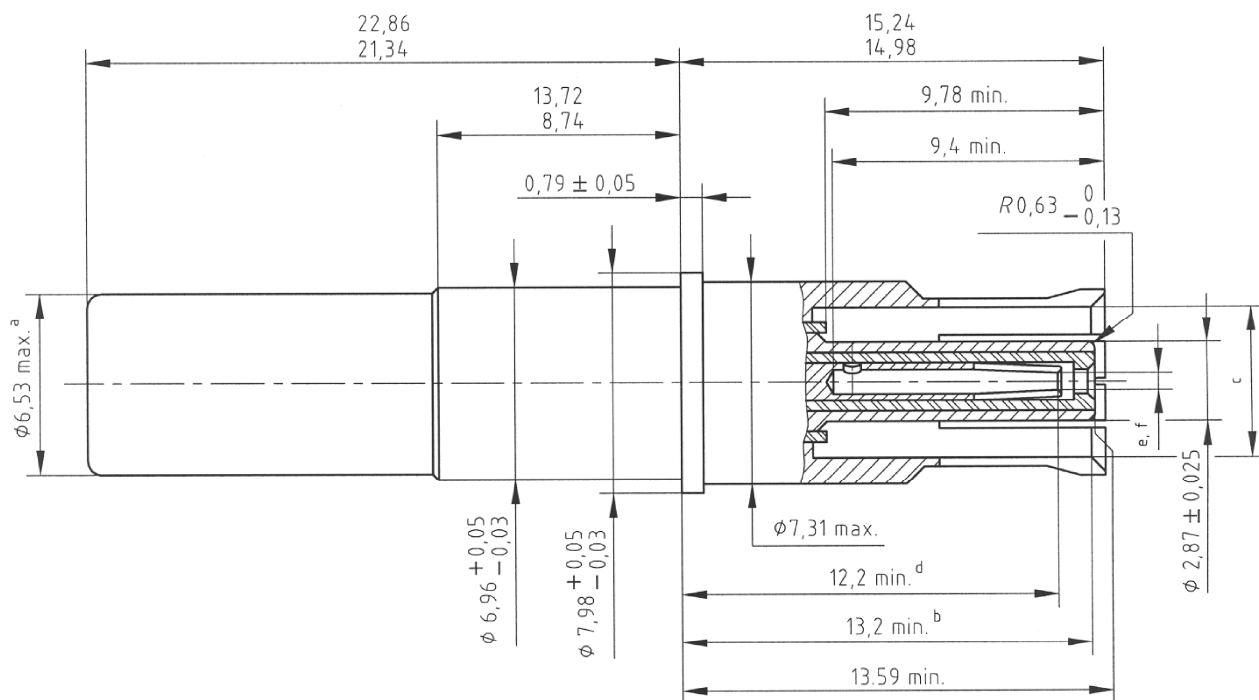
Mass of the contact: 6,9 g max.

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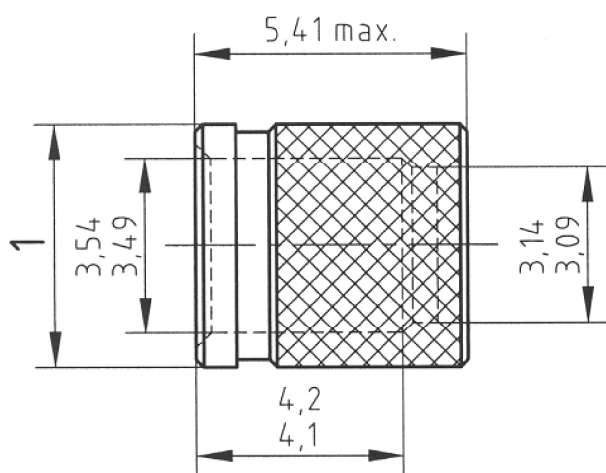
²⁾ Published as SAE National (US) Society of Automotive Engineers <http://www.sae.org/>.

³⁾ Published as ASD-STAN Technical Report at the date of publication of this standard by Aerospace and Defence Industries Association of Europe-Standardization (ASD-STAN), (www.asd-stan.org).



- a Diameter of outside after wiring
- b Point of contact with a flat-ended gauge pin of diameter $5,54 \pm 0,005$
- c Diameter compatible with an outer pin diameter $5,54 \pm 0,02$
- d Point of contact with a flat-ended gauge pin of diameter $0,76 \pm 0,005$
- e Diameter compatible with a centre pin of diameter $0,76 \pm 0,013$
- f Protection of the entrance of the centre contact shall be ensured either at insert level, or at contact level, by a restricted entry.

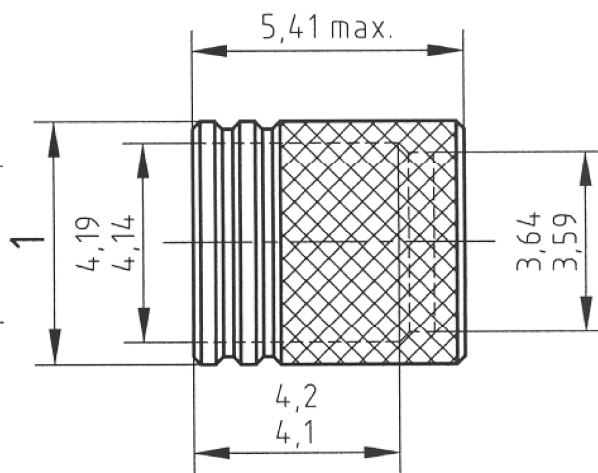
Figure 1



Key

- 1 4,91
 4,86 on ferrule

Figure 2 — Ferrule for cable group A



Key

- 1 4,91 on ferrule
4,86

Figure 3 — Ferrule for cable group B

4.3 Marking by colour code

Not applicable.

4.4 Material, surface treatment

- Outer body material (female) : copper alloy
- Intermediate contact (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

4.5 Typical cables

See Figure 4 and Table 1.

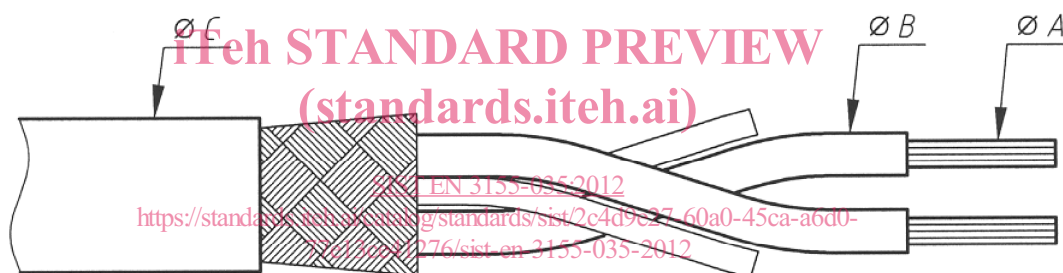


Figure 4

Table 1

Cable code group	Permissible cable code according to TR 6058	Dimensions of cable					
		A		B	Braid composition	C	
		min.	max.	max.		min.	max.
A	—	0,55	0,62	1,3	1 braid of 0,1 coated copper wire overall diameter: 3 mm max.	3	3,5
B	WJ	0,55	0,62	1,3	2 braid of 0,1 coated copper wire overall diameter: 3,5 mm max.	3,4	3,9
	WV	0,55	0,62	1,3	2 braid of 0,1 coated copper wire. 1 high immunity tape overall diameter: 3,75 max.	3,6	4,1