SLOVENSKI STANDARD
kSIST FprEN 3155-079:2014

01-maj-2014

Aeronavtika - Električni kontakti za uporabo v veznih elementih - 079. del: Kontakt velikosti 22 za EN 2997, električni, ženski, tip A, nagubani, razred S - Standard za proizvod

Aerospace series - Electrical contacts used in elements of connection - Part 079: Contacts size 22 for EN 2997, electrical, female, type A, crimp, class S - Product standard

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen - Teil 079: Elektrische Buchsenkontakte Größe 22 für EN 2997, Typ A, crimpbar, Klasse S - Produktnorm

Série aérospatiale - Contacts électriques utilisés dans les organes de connexion - Partie 079 : Contacts électriques taille 22 pour EN 2997, femelles, type A, à sertir, classe S - Norme de produit

Ta slovenski standard je istoveten z: **FprEN 3155-079**

ICS:

49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems

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ICS

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Aerospace series - Electrical contacts used in elements of connection - Part 079: Contacts size 22 for EN 2997, electrical, female, type A, crimp, class S - Product standard

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (FprEN 3155-079:2014) 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 document is currently submitted to the Formal Vote.

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Introduction

The contacts defined in this standard are specified for EN 2997 high density.

1 Scope

This European Standard specifies the required characteristics and tests applicable to female electrical contacts 079, 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 male contacts are defined in EN 3155-078.

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

EN 2591 [1)], *Aerospace series — Elements of electrical and optical connection — Test methods*

EN 2997 (all parts), *Aerospace series — Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak*

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 3155-078, *Aerospace series — Electrical contacts used in elements of connection — Part 078: Contacts size 22 for EN 2997, electrical, male, type A, crimp, class S — Product standard*

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

MIL-DTL-22520G, *Crimping tools, wire termination, general specification for* [2)]

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

3 Terms and definitions

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

1) All parts quoted in Table 6.

2) Published by: DoD National (US) Mil. Department of Defense http://www.defenselink.mil/

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4 Required characteristics

4.1 Specific characteristics

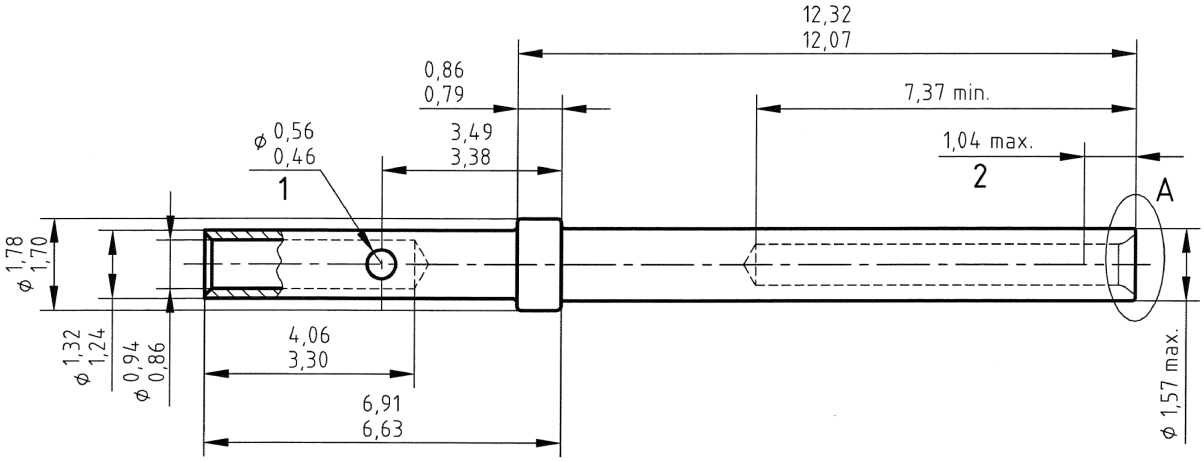
Type A contacts are for general application and class S corresponds to an operating temperature range from – 65 °C to 200 °C.

4.2 Dimensions and mass

See Figure 1 and Figure 2.

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

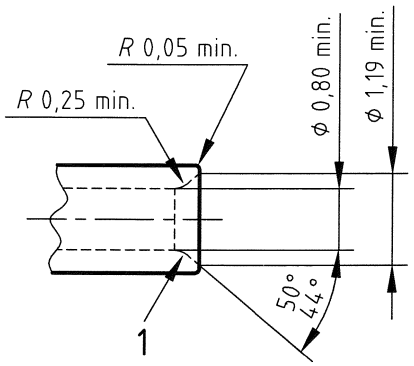
Mass: 0,20 g.



Key

1 One side only
2 Electrical engagement point

Figure 1



Key

1 One full rad. permissible

Figure 2 — Detail A

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4.3 Marking by colour code

See Table 1.

Table 1 — Marking

Size		Two bands according to ISO 8843		
Contact	**Barrel**	**① Band 1**	**② Band 2**	**③ Dot**
22	22	Green	Green	—

4.4 Material, surface treatment

— Body material: copper alloy.

— Surface treatment: gold on appropriate undercoat, thickness of protection not specified, selective protection permitted.

4.5 Permissible cables

See Table 2.

Table 2 — Permissible cables

Size		Size of conductors			Rated test current A
Contact	**Barrel**	**ASD code**	**Section mm²**	**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-22520G, see Table 3.

The qualification selector numbers used for crimping copper or copper alloy conductors in cables EN 2083 are indicated in Table 3.

It is the responsibility of the user if the parameters in Table 3 are changed for service use.