

**SLOVENSKI STANDARD
SIST EN 3155-077:2012****01-marec-2012**

**Aeronavtika - Električni kontakti za uporabo v veznih elementih - 077. del:
Kontakti, električni, ženski, tip A, stisljivi, razred R - Standard za izdelek**

Aerospace series - Electrical contacts used in elements of connection - Part 077:
Contacts, electrical, female, type A, crimp, class R - Product standard

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen -
Teil 077: Elektrische Buchsenkontakte, Typ A, crimpbar, Klasse R - Produktnorm

Série aérospatiale - Contacts électriques utilisés dans les organes de connexion - Partie
077 : Contacts électriques, femelles, type A, à sertir, classe R - Norme de produit

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Ta slovenski standard je istoveten z: EN 3155-077:2012

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 3155-077

January 2012

ICS 49.060

English Version

**Aerospace series - Electrical contacts used in elements of
connection - Part 077: Contacts, electrical, female, type A,
crimp, class R - Product standard**

Série aérospatiale - Contacts électriques utilisés dans les
organes de connexion - Partie 077: Contacts électriques,
femelles, type A, à sertir, classe R - Norme de produit

Luft- und Raumfahrt - Elektrische Kontakte zur
Verwendung in Verbindungselementen - Teil 077:
Elektrische Buchsenkontakte, Typ A, crimpbar, Klasse R -
Produktnorm

This European Standard was approved by CEN on 4 May 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.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, 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, Turkey and United Kingdom.



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Foreword

This document (EN 3155-077:2012) 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 July 2012, and conflicting national standards shall be withdrawn at the latest by July 2012.

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, Croatia, 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, Turkey and the United Kingdom.

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EN 3155-077:2012 (E)**Introduction**

The contacts defined by this standard are to be used in connectors defined by EN 4644-001.

The contact #22 defined by this standard are derived from those of SAE AS 39029-12 and are intermateable with those of SAE AS 39029-11.

1 Scope

This European Standard specifies the required characteristics, tests and tooling applicable to female contacts size 22, 20, 16, 12, 8 and 5, type A, crimp, class R, used in elements of connection according to EN 3155-002.

It should be used together with EN 3155-001.

The associated male contacts are defined in EN 3155-076.

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 2083, *Aerospace series — Copper and copper alloys conductors for electrical cables — Product standard*

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 3155-076, *Aerospace series — Electrical contacts used in elements of connection — Part 076: Contacts, electrical, male, type A, crimp, class R — Product standard*

EN 4644-001, *Aerospace series — Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous — Part 001: Technical specification*

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

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

MIL-I-81969, *Installing and removal tools, connector electrical contact, general specification for ¹⁾*

SAE AS 39029, *Contacts, electrical connector, general specification for ²⁾*

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

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

3 Terms, definitions and abbreviations

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

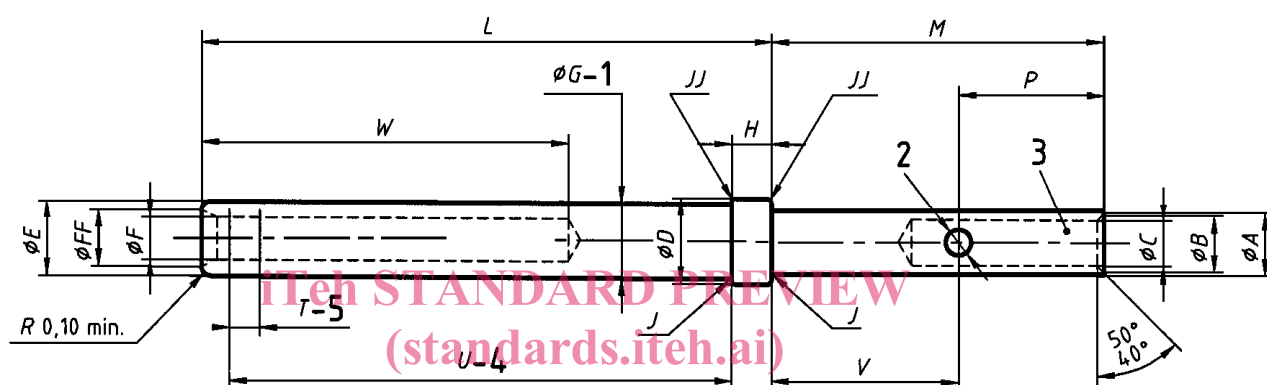
4 Requirements

4.1 Specific characteristics

Type A contacts are for general application and class R corresponds to an operating temperature range from $-65\text{ }^{\circ}\text{C}$ to $175\text{ }^{\circ}\text{C}$.

4.2 Dimensions and mass

See Figures 1 to 3 and Table 1.



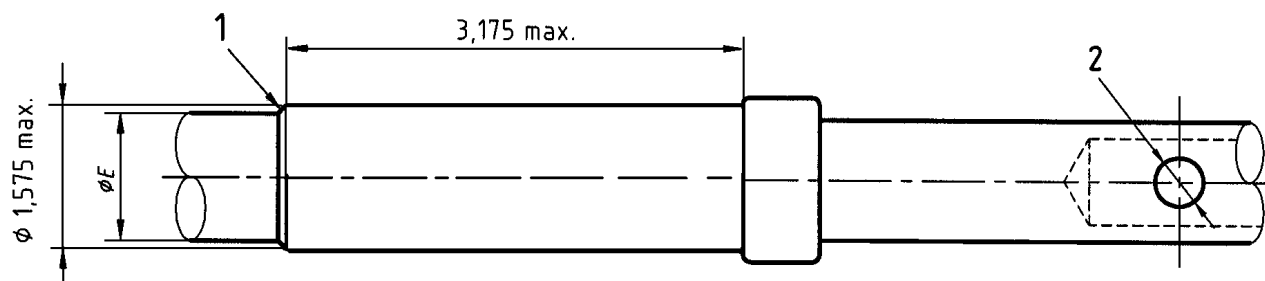
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Key

- 1 Beginning at the interface where the sleeve meets the barrel of the contact.
- 2 One hole $\varnothing N$
- 3 Area for colour band marking (see Table 2).
- 4 Distance from contact shoulder to socket contact extremity.
- 5 Distance between socket contact extremity and contact electrical point.

Figure 1



Key

- 1 Chamfer or radius
- 2 One hole $\varnothing N$

Figure 2 — Size 16, 12 and 8 crimp barrel

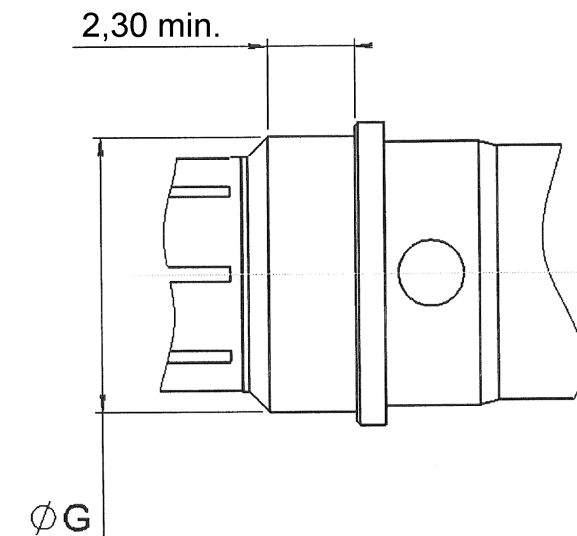
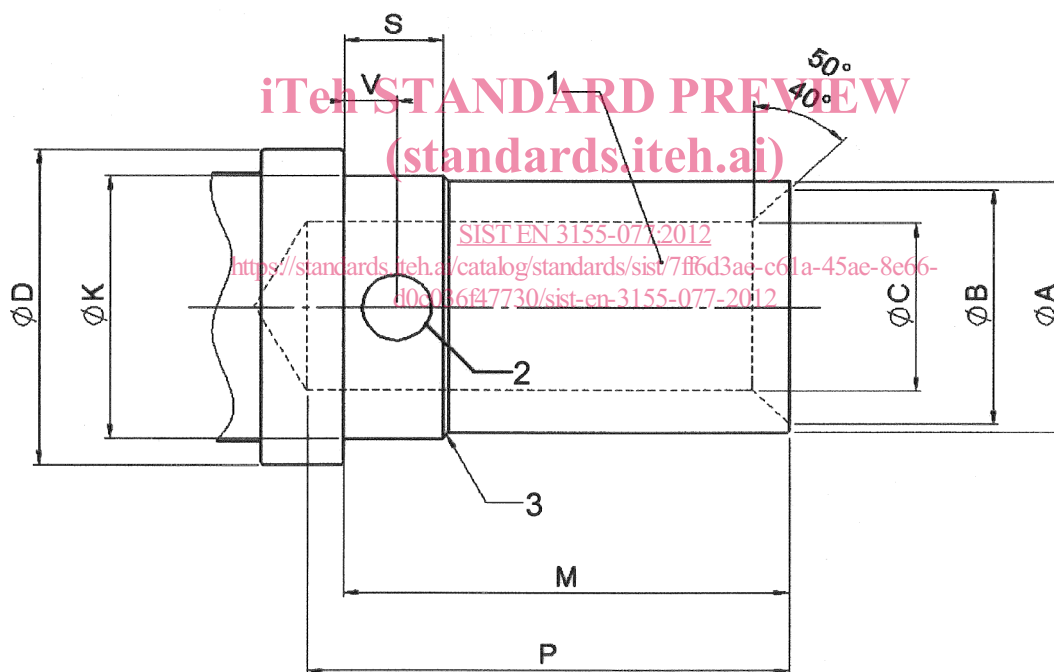
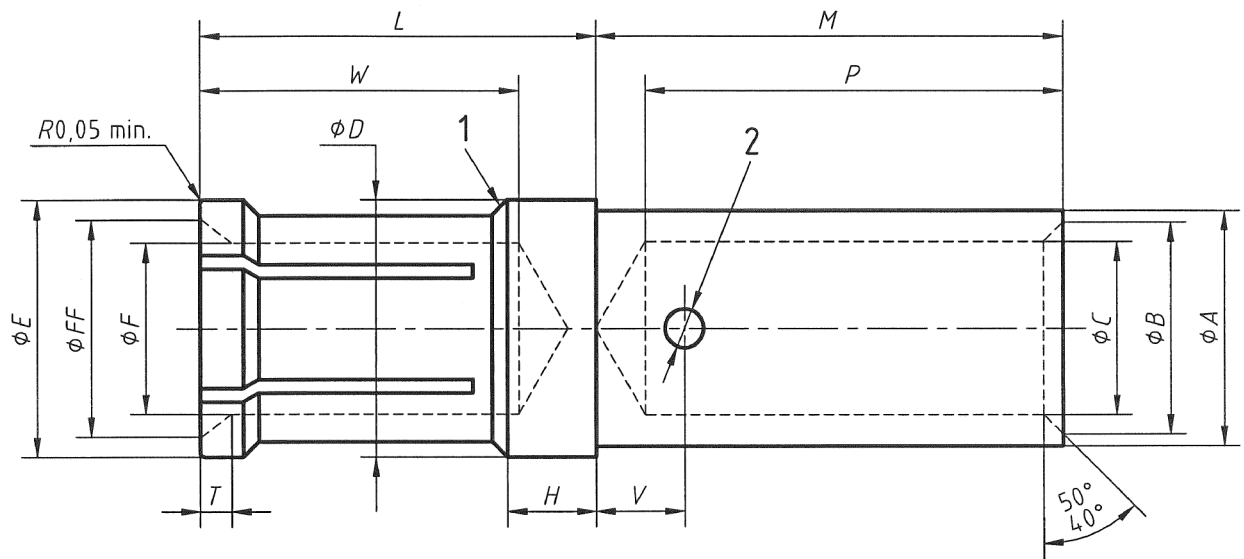


Figure 3 — Contact 8-8 mating side detail

**Key**

- 1 Area for colour band marking (see Table 2)
- 2 One hole ϕN
- 3 Chamfer or radius

Figure 4 — Contact 16-16, 12-12, 8-8 crimp barrel detail

**Key**

- 1 Chamfer J
- 2 One hole $\varnothing N$

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Figure 5 — Contact 5-5
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