

**Aerospace series – Electrical contacts used in  
elements of connection –**  
Part 024: Contacts, electrical, triaxial, size 8, male,  
type D, crimp, class S – Product standard

Europastandarden EN 3155-024:2006 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN 3155-024:2006.

The European Standard EN 3155-024:2006 has the status of a Swedish Standard. This document contains the official English version of EN 3155-024:2006.

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
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**EN 3155-024**

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English Version

**Aerospace series - Electrical contacts used in elements of connection - Part 024: Contacts, electrical, triaxial, size 8, male, type D, crimp, class S - Product standard**

Série aérospatiale - Contacts électriques utilisés dans les organes de connexion - Partie 024 : Contacts électriques, triaxiaux, taille 8, mâles, type D, à sertir, classe S - Norme de produit

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen - Teil 024: Elektrische Stiftkontakte, triaxial, Größe 8, Typ D, crimpbar, Klasse S - Produktnorm

This European Standard was approved by CEN on 20 April 2006.

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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 Central Secretariat has the same status as the official versions.

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## Foreword

This European Standard (EN 3155-024:2006) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-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 AECMA, 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of an identical text or by endorsement, at the latest by December 2006, and conflicting national standards shall be withdrawn at the latest by December 2006.

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, 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.

## Introduction

The contacts defined by this standard are derived from, and are interchangeable with, contacts conforming to AS 39029/90. They are intermateable with contacts conforming to EN 3155-013 and AS 39029/91.

## 1 Scope

This standard specifies the required characteristics and tests applicable to male electrical contacts, type D, crimp, class S, – 65 °C to 200 °C, size 8 used in elements of connection according to EN 3155-001. It shall be used together with EN 3155-001.

The associated female contacts are defined in EN 3155-025.

## 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, *Aerospace series — Electrical contacts used in elements of connection — Part 001: Technical specification.* <sup>1)</sup>

EN 3155-013, *Aerospace series — Electrical contacts used in elements of connection — Part 013: Contacts, electrical, triaxial, size 8, female, type D, solder, class R — Product standard.*

EN 3155-025, *Aerospace series — Electrical contacts used in elements of connection — Part 025: Contacts, electrical, triaxial, size 8, female, type D, crimp, class S — Product standard.*

EN 3375-003, *Aerospace series — Electrical cables for signal data transmissions — Operating temperature max. 150/200/260 °C — Part 003: Single braid — Product standard.* <sup>2)</sup>

EN 3375-004, *Aerospace series — Electrical cables for signal data transmissions — Operating temperature max. 150/200/260 °C — Part 004: Double braid — Product standard.* <sup>2)</sup>

EN 3375-005, *Aerospace series — Electrical cables for signal data transmissions — Operating temperature max. 150/200/260 °C — Part 005: Double braid + metallic layer — Product standard.* <sup>2)</sup>

EN 4008-003, *Aerospace series — Elements of electrical and optical connection — Crimping tools and associated accessories — Part 003: Positioner for Crimping Tool M22520/2-01.* <sup>2)</sup>

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\* All parts quoted in this standard.

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

2) In preparation at date of this publication.

EN 4008-004, *Aerospace series — Elements of electrical and optical connection — Crimping tools and associated accessories — Part 004: Die for Crimping Tool M22520/5-01.* <sup>2)</sup>

EN 4530-002, *Aerospace series — Sealing sleeves used in elements of connection — Part 002: List and utilization of sealing sleeves.*

MIL-I-81969/14, *Installing and removal tools, connector electrical contact, type III, class 2, composition B.* <sup>3)</sup>

MIL-PRF-5606H, *Hydraulic fluid, petroleum base; aircraft, missile and ordnance.* <sup>3) 4)</sup>

MIL-PRF-7808L, *Lubricating oil, aircraft turbine engine, synthetic base, NATO code number O-148.* <sup>3)</sup>

MIL-PRF-7870C, *Lubricating oil: general purpose, low temperature.* <sup>3)</sup>

MIL-PRF-23699F, *Lubricating oil, aircraft turbine engine, synthetic base, NATO code number O-156.* <sup>3)</sup>

MIL-PRF-87937D, *Cleaning compound, aerospace equipment.* <sup>3)</sup>

AMS 1424, *Fluid, Deicing/Anti-Icing, Aircraft - SAE Type I.* <sup>5)</sup>

AS 1241, *Fire resistant phosphate ester hydraulic fluid for aircraft.* <sup>5)</sup>

AS 39029/90, *Contact, Electrical Connector, Concentric-Twinax, Pin, Shielded, Size 8.* <sup>5)</sup>

AS 39029/91, *Contact, Electrical Connector, Concentric-Twinax, Socket, Shielded, Size 8.* <sup>5)</sup>

### 3 Terms and definitions

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

## 4 Required characteristics

### 4.1 Dimensions and mass

Dimensions are given in millimetres after surface treatment: See Figures 1 and 2 and Table 1.

Mass: 3,3 g max.

### 4.2 Materials, surface treatment

Materials: Conductive – copper alloy

Dielectric: PEEK or equivalent

Surface treatment: Gold on appropriate undercoat (selective protective finish permitted).

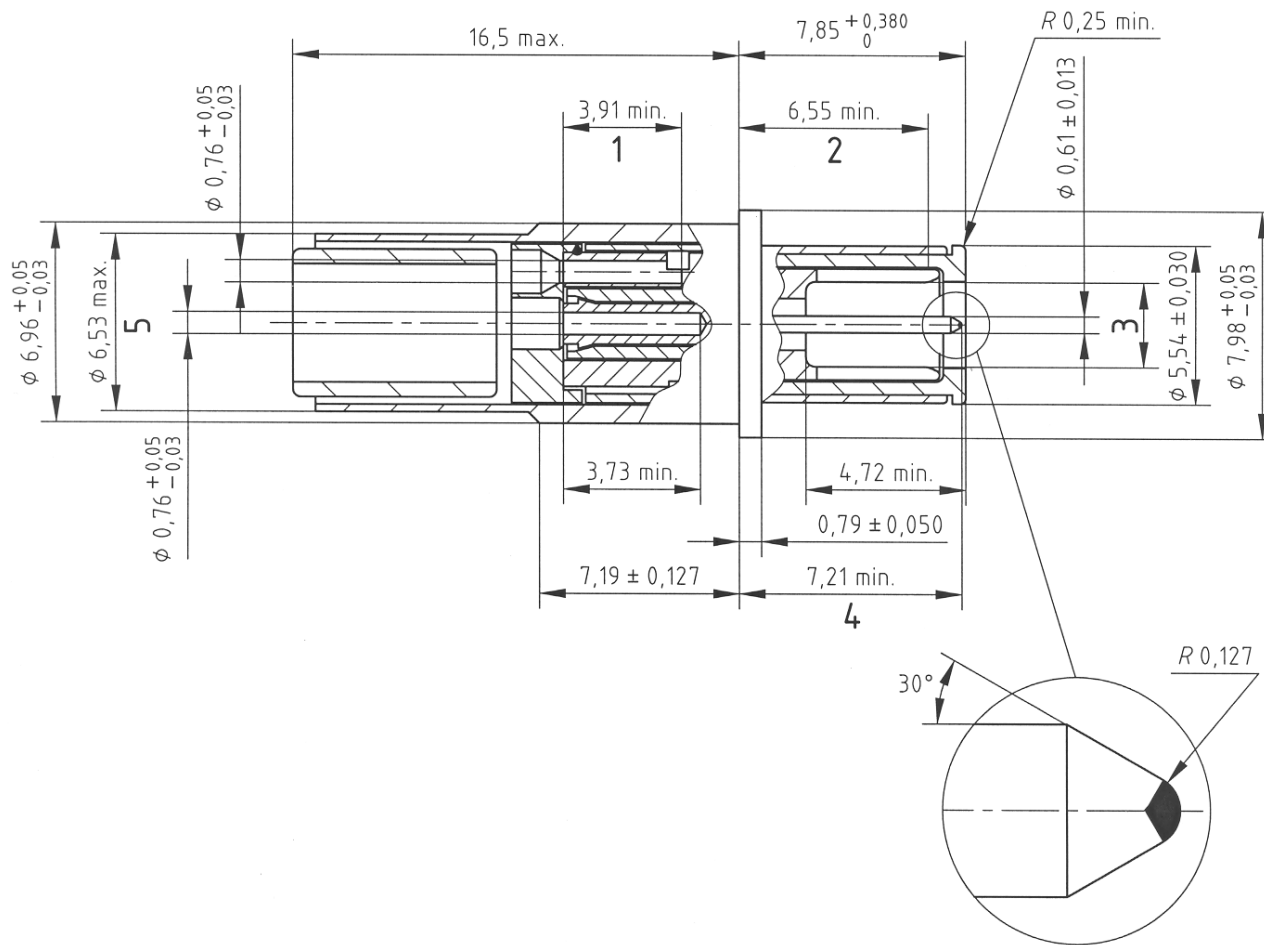
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3) Published by: Department of Defense (DOD), The Pentagon, Washington D.C. 20301, USA.

4) Inactive for new design after 29 March 1996. For new designs, use MIL-PRF-87257 or MIL-PRF-83282.

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

EN 3155-024:2006 (E)



**Key**

- 1 Length of crimp well.
- 2 Point at which a square ended pin, of the same basic diameter as the mating contact, first engages.
- 3 Mates with  $\phi 2,57 \pm 0,025$ .
- 4 End of centre contact.
- 5 Diameter shall not exceed 7,01 over recovered heat shrink boot.

NOTE When mated with contacts conforming to EN 3155-025 the outer contact shall always mate prior to the centre and intermediate contacts. The mating sequence between centre and intermediate contacts is not guaranteed and therefore does not conform to EN 3155-001 Clause "Engagement sequence".

Figure 1