

**Aerospace series – Electrical contacts used in  
elements of connection –**  
Part 058: Contacts, electrical, coaxial, size 16, male,  
type D, solder, class R – Product standard

Europastandarden EN 3155-058:2006 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN 3155-058:2006.

The European Standard EN 3155-058:2006 has the status of a Swedish Standard. This document contains the official English version of EN 3155-058:2006.

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 3155-058**

July 2006

ICS 49.060

English Version

**Aerospace series - Electrical contacts used in elements of connection - Part 058: Contacts, electrical, coaxial, size 16, male, type D, solder, class R Product standard**

Série aérospatiale - Contacts électriques utilisés dans les organes de connexion - Partie 058 : Contacts, électriques, coaxiaux, taille 16, mâles, type D, à souder, class R - Norme de produit

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen - Teil 058: Elektrische Koaxialstiftkontakt Größe 16, Typ D, zum Löten, Klasse R - Produktnorm

This European Standard was approved by CEN on 9 March 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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EUROPÄISCHES KOMITEE FÜR NORMUNG

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## Foreword

This European Standard (EN 3155-058:2006) has been prepared by the AeroSpace and Defense 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of an identical text or by endorsement, at the latest by January 2007, and conflicting national standards shall be withdrawn at the latest by January 2007, and.

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.

**EN 3155-058:2006 (E)****Introduction**

The contacts defined by this standard are derived from those of MIL-C-39029/76 and are intermateable with those of MIL-C-39029/77 and MIL-C-39029/78.

**1 Scope**

This standard specifies the required characteristics, tests and tooling applicable to size 16, male coaxial, electrical contacts, type D, solder, class R, 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 3155-059 and EN 3155-069.

**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 (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*<sup>1)</sup>

EN 3155-002, *Aerospace series – Electrical contacts used in elements of connection – Part 002: List and utilization of contacts*

EN 3155-059, *Aerospace series – Electrical contacts used in elements of connection – Part 059: Contacts, electrical, coaxial, size 16, female, type D, solder, class R – Product standard*

EN 3155-069, *Aerospace series – Electrical contacts used in elements of connection. Part 069: Contacts, electrical, coaxial, female, type D, solder, class P – Product standard*<sup>2)</sup>

MIL-A-8243D, *Anti-icing and deicing-defrosting fluids*<sup>3)</sup>

MIL-C-25769J, *Cleaning compound, aircraft surface, alkaline water base*<sup>3)</sup>

MIL-C-39029/76, *Contacts, electrical connector, pin, crimp, removable, shielded, size 16, (for MIL-C-38999 Series I, II, III, IV and MIL-C-24308 connectors)*<sup>3)</sup>

MIL-C-39029/77, *Contacts, electrical connector, socket, crimp, removable, shielded, size 16, (for MIL-C-38999 Series I, III, IV connectors)*<sup>3)</sup>

MIL-C-39029/78, *Contacts, electrical connector, socket, crimp, removable, shielded, size 16, (for MIL-C-38999 Series II, and MIL C 24308 connectors)*<sup>3)</sup>

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

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

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<sup>1)</sup> Published as ASD Prestandard at the date of publication of this standard.

<sup>2)</sup> In preparation at the date of publication of this standard.

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

MIL-I-81969/08B, *Installing and removal tools, connector electrical contact, types I and II, class 2, composition A* <sup>3)</sup>

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

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

MIL-L-7870A, *Lubricating oil, general purpose, low temperature* <sup>3)</sup>

MIL-L-23699C, *Lubricating oil, aircraft turbine engines, synthetic base* <sup>3)</sup>

MS3197, *Gage pin for socket contact engagement test* <sup>3)</sup>

QQ-S-571F, *Solder, electronic (96 to 485 °C)* <sup>3)</sup>

SAE AS 1241A, *Fire Resistant Phosphate Ester Hydraulic Fluid for Aircraft (March 83)* <sup>4)</sup>

TR 6058, *Aerospace series – Cable code identification list* <sup>5)</sup>

### 3 Definitions

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

## 4 Required characteristics

### 4.1 Specific characteristics

Type D contacts are contacts with screening feature, class R corresponds to an operating temperature range from -65 °C to 150 °C.

### 4.2 Dimensions and mass

See Figure 1 for dimensions.

Contact mass: 0,243 g max.

### 4.3 Marking by colour code

Not applicable

### 4.4 Material, surface treatment

#### 4.4.1 Material

Body: copper alloy

#### 4.4.2 Protective coating

Gold on appropriate undercoat for copper alloy parts

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

<sup>4)</sup> Published by: Society of Automotive Engineers, Inc. (SAE) 400, Commonwealth Drive, Warrendale, PA 15096-0001.

<sup>5)</sup> Published as AECMA Technical Report at the date of publication of this standard.

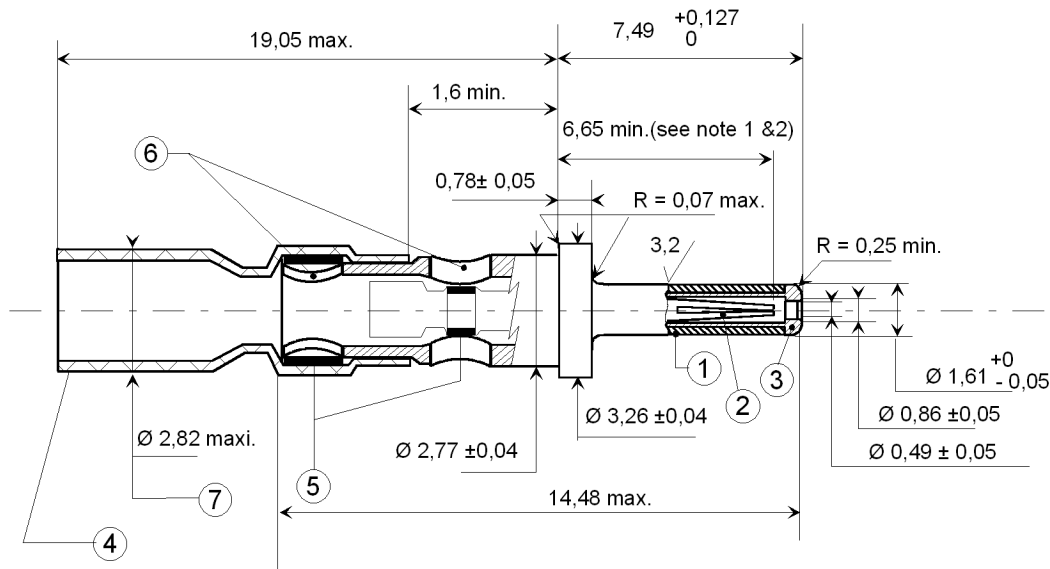
**EN 3155-058:2006 (E)**

Thickness not specified.

**4.4.3 Dielectric**

ETFE fluoropolymer

Dimensions in millimetres.



**Key**

- |                               |                            |
|-------------------------------|----------------------------|
| ① Male external contact body  | ⑤ Solder rings             |
| ② Female central contact body | ⑥ Inspection windows       |
| ③ Dielectric                  | ⑦ Diameter after shrinking |
| ④ Heat shrinkable tubing      |                            |

NOTE 1 Point at which a square ended gauge pin of the same basic diameter as the mating contact first engages the female contact spring member. Provision for a clearance hole shall be provided.

NOTE 2 Mates with 0,39/0,37 male contact diameter.

**Figure 1**

**4.4.4 Heat shrinkable tubing**

Radiation crosslinked polyvinylidene fluoride

**4.4.5 Solder rings**

Sn63 as per QQ-S-571

**4.5 Permissible cables**

The cables should have dimensions within the values specified in Table 1.

**4.6 Stripping of cables and wiring method**

Dimensions are in millimetres. See Figures 2, 3 and 4.