



SLOVENSKI STANDARD SIST EN 3155-074:2009

01-maj-2009

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Aerospace series - Electrical contacts used in elements of connection - Part 074:
Contacts, electrical, quadrax, size 8, male, type E, crimp, class R - Product standard

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen -
Teil 074: Elektrische Quadrax Stiftkontakte Größe 8, Typ E, crimpbar, Klasse R -
Produktnorm
(standards.iteh.ai)

Série aérospatiale - Contacts électriques utilisés dans les organes de connexion - Partie
074 : Contacts, électriques, quadrax taille 8, mâles, type E, à sertir, classe R - Norme de
produit

Ta slovenski standard je istoveten z: EN 3155-074:2009

ICS:

49.060 Š^æ\ æš Å^•[|b\ æ Aerospace electric
^|\ dā} æ] !^ { æš Å ã c^ { ã equipment and systems

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EUROPEAN STANDARD
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EUROPÄISCHE NORM

EN 3155-074

March 2009

ICS 49.060

English Version

Aerospace series - Electrical contacts used in elements of connection - Part 074: Contacts, electrical, quadrax, size 8, male, type E, crimp, class R - Product standard

Série aérospatiale - Contacts électriques utilisés dans les organes de connexion - Partie 074 : Contacts électriques, quadrax, taille 8, mâles, type E, à sertir, classe R - Norme de produit

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen - Teil 074: Elektrische Quadrax Stiftkontakte Größe 8, Typ E, crimpbar, Klasse R - Produktnorm

This European Standard was approved by CEN on 31 January 2009.

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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 CEN Management Centre has the same status as the official versions.

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Foreword

This document (EN 3155-074:2009) 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 2009, and conflicting national standards shall be withdrawn at the latest by September 2009.

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, 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.

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Introduction

The contacts defined by this standard are designed for size 8 polarized connector cavities.

1 Scope

This standard specifies the required characteristics, tests and tooling applicable to male electrical quadrax contacts, shielded, size 8, type E, crimp, class R, used in elements of connection according to EN 3155-002.

It shall be used together with EN 3155-001.

The associated female contacts are defined in EN 3155-075.

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 3155-001:2009, *Aerospace series — Electrical contacts used in elements of connection — Part 001: Technical specification.* <https://standards.iteh.ai/catalog/standards/sist/d93f5ec6-05de-46a0-a496-9ace28353b52/sist-en-3155-074-2009>

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

EN 3155-075, *Aerospace series — Electrical contacts used in elements of connection — Part 075: Contacts, electrical, quadrax, size 8, female, type E, crimp, class R — Product standard.*

EN 3909, *Aerospace series — Test fluids and test methods for electric components and sub-assemblies.*

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

TR 6058, *Aerospace series — Cable code identification list.*¹⁾

3 Terms and definitions

For the purposes of this standard, the terms and definitions given in EN 3155-001:2009 apply.

* All parts quoted in this document.

1) Published as ASD Technical Report at the date of publication of this standard.

4 Required characteristics

4.1 Specific characteristics

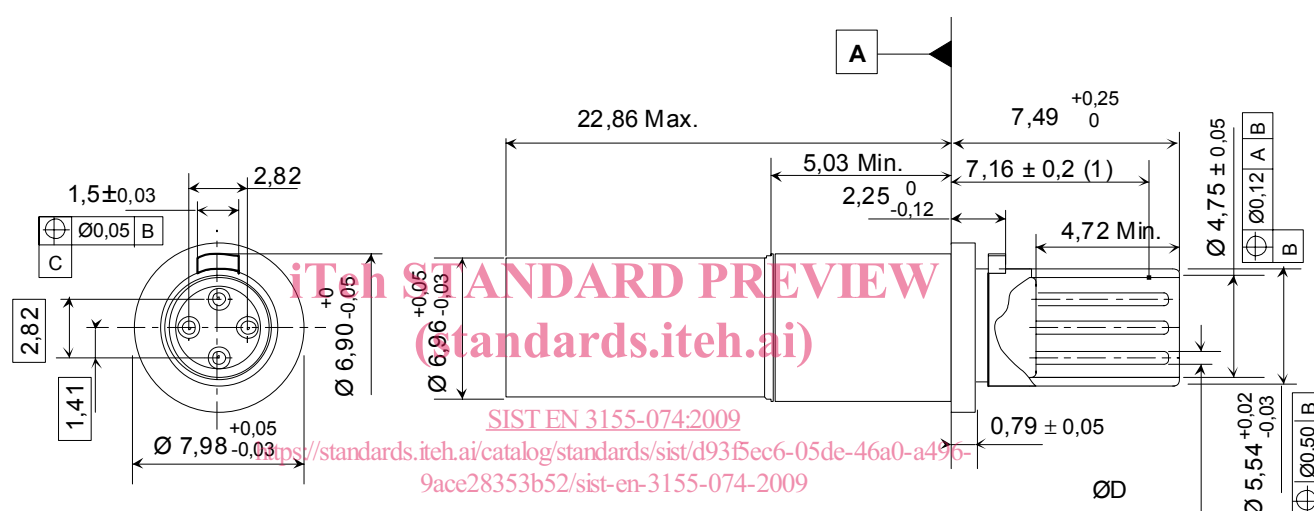
Contact with screening feature, including coaxial, triaxial, bifilar and quadrax contacts. These type E contacts are contacts with screening feature and specified high frequency characteristics, class R corresponds to an operating temperature range from $-65\text{ }^{\circ}\text{C}$ to $150\text{ }^{\circ}\text{C}$.

4.2 Dimensions and mass

See Figures 1, 2 and Table 1 for dimensions.

Dimensions and tolerances are given in millimetres.

Contact mass: 3,9 g max.



NOTE Point of which a square ended gauge pin of the same basic diameter as the mating contact first engages the female contacts spring member

Figure 1 — Configuration, dimensions and tolerances of male outer body

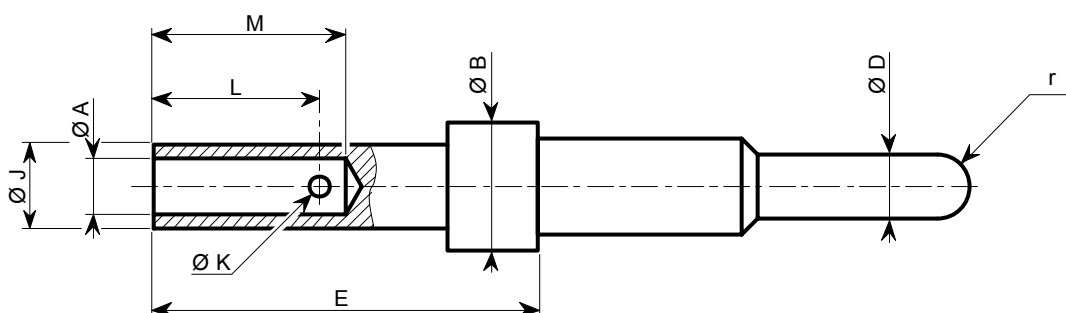


Figure 2 — Configuration of male signal contact

Table 1 — Dimensions and tolerances of male signal contact

$\varnothing A$	$\varnothing B$	$\varnothing D$	E	$\varnothing J$	$\varnothing K$	L	M	r (typ)
0,85	1,47	0,62	5,03	1,24	0,52	3,1	3,58	0,32
0,90	1,51	0,65	5,13	1,32	0,62	3,3	3,99	

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4.3 Marking

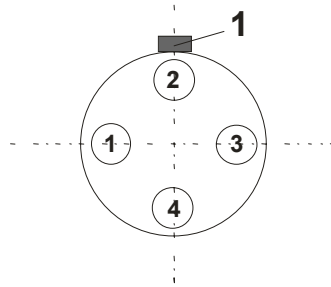
4.3.1 Marking by colour code

Not applicable

4.3.2 Pin location identification

See Figure 3.

(Not printed on product)



Key

1 Angular positioning key

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Figure 3 — Front face view

4.4 Material, surface treatment

4.4.1 Material

Body: Copper alloy.

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4.4.2 Protective coating

Gold on appropriate undercoat for copper alloy parts.

Thickness not specified.

4.4.3 Dielectric

PTFE Fluoropolymer or equivalent.

4.5 Permissible cables

The cables shall be conforms as per Table 2.

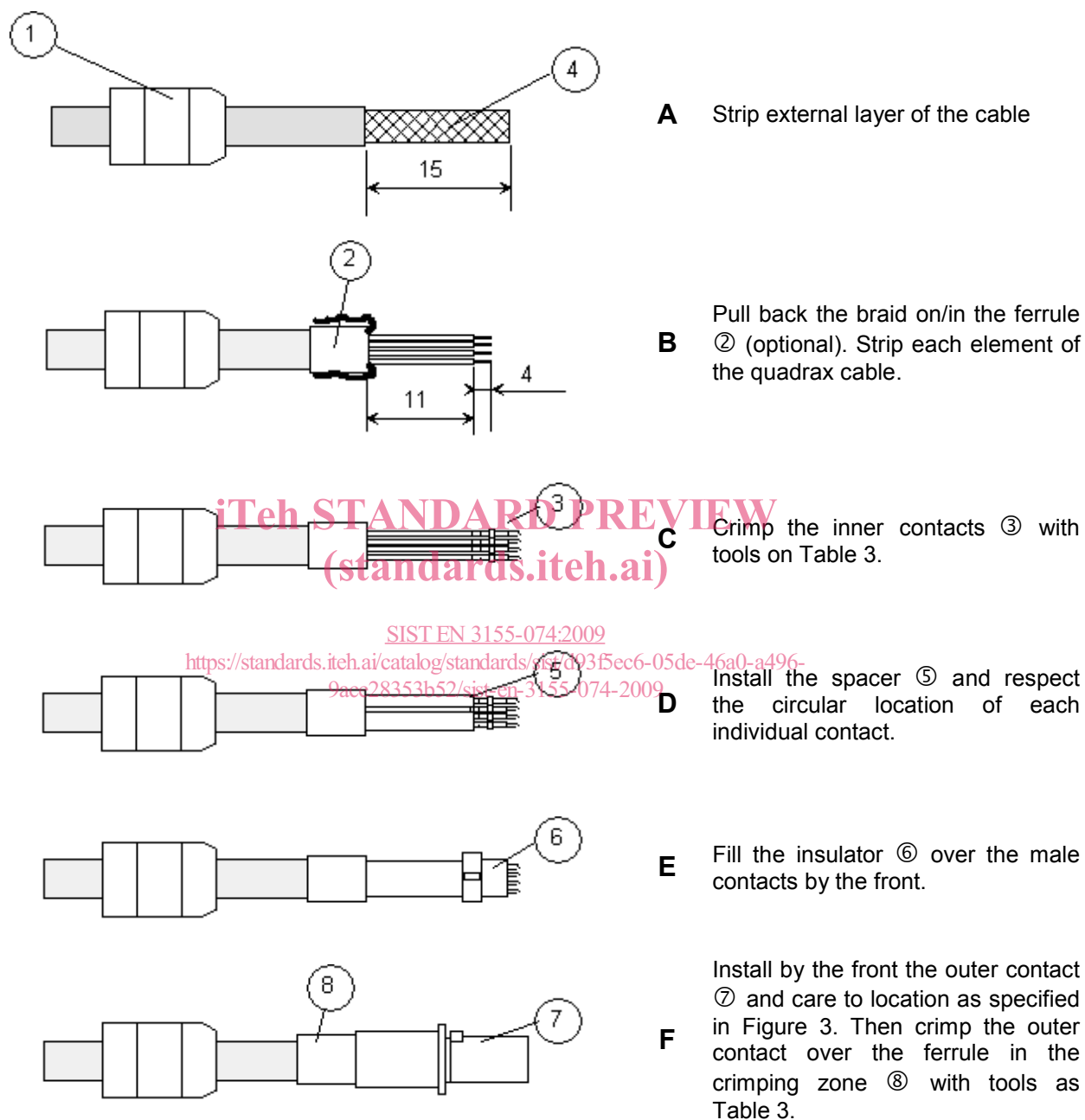
Table 2

Cable group	Type of cable
A	ABS1503KD24
Permissible cable code according to TR 6058	KD24

4.6 Wiring

4.6.1 Preparation of the cable and crimping sequence

See Figure 4.



Key

- | | |
|-----------------------|----------------------------------|
| ① Sealing sleeve | ⑤ Spacer |
| ② Ferrule | ⑥ Insulator |
| ③ Inner male contacts | ⑦ Outer contact body |
| ④ Braided screen | ⑧ Crimping zone of outer contact |

Figure 4