

This is a preview of "BS EN 3155-075:2022". [Click here to purchase the full version from the ANSI store.](#)



BSI Standards Publication

Aerospace series — Electrical contacts used in elements of connection

Part 075: Contacts, electrical, quadrax, size 8, female,
type E, crimp, class R — Product standard

This is a preview of "BS EN 3155-075:2022". [Click here to purchase the full version from the ANSI store.](#)

National foreword

This British Standard is the UK implementation of EN 3155-075:2022. It supersedes BS EN 3155-075:2009, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee ACE/6, Aerospace avionic electrical and fibre optic technology.

A list of organizations represented on this committee can be obtained on request to its committee manager.

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

© The British Standards Institution 2022
Published by BSI Standards Limited 2022

ISBN 978 0 539 19676 4

ICS 49.060

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 June 2022.

Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

EUROPÄISCHE NORM

May 2022

ICS 49.060

Supersedes EN 3155-075:2009

English Version

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

Série aérospatiale - Contacts électriques dans les organes de connexion - Partie 075 : Contacts électriques, quadrax, taille 8, femelles, type E, à sertir, classe R - Norme de produit

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen - Teil 075: Elektrische Quadrax Buchsenkontakte Größe 8, Typ E, crimpbar, Klasse R - Produktnorm

This European Standard was approved by CEN on 10 January 2022.

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, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

This is a preview of "BS EN 3155-075:2022". [Click here to purchase the full version from the ANSI store.](#)

Contents		Page
European foreword		iii
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	Required characteristics	5
4.1	Specific characteristics	5
4.2	Dimensions and mass	5
4.3	Marking	7
4.3.1	Marking	7
4.3.2	Pin location identification	7
4.4	Material, surface treatment	8
4.4.1	Material	8
4.4.2	Protective coating	8
4.4.3	Dielectric	8
4.5	Permissible cables	8
4.6	Wiring	9
4.7	Tools	10
4.8	Tests	10
4.9	Gauge	14
4.10	Connectors for qualification tests	14
5	Designation	15
6	Marking	15
7	Technical specification	15

This is a preview of "BS EN 3155-075:2022". [Click here to purchase the full version from the ANSI store.](#)

European foreword

This document (EN 3155-075:2022) 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 document 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 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 2022, and conflicting national standards shall be withdrawn at the latest by November 2022.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document will supersede EN 3175-075:2009.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this document: 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, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

This is a preview of "BS EN 3155-075:2022". Click here to purchase the full version from the ANSI store.

1 Scope

This document specifies the required characteristics, tests and tooling applicable to female electrical quadax contacts, shielded, size 8, type E characteristic impedance 100 Ω , crimp, class R, used in elements of connection according to EN 3155-002.

It is used together with EN 3155-001.

The associated male contacts are defined in EN 3155-074.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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, *Aerospace series - Elements of electrical and optical connection - Test methods - General*

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 3155-074, *Aerospace series - Electrical contacts used in elements of connection - Part 074: Contacts, electrical, quadax, size 8, male, type E, crimp, class R - Product standard¹⁾*

EN 3375-008, *Aerospace series - Cable, electrical, for digital data transmission - Part 008: Single braid - Star Quad 100 ohms - Type KD - Product standard*

EN 3375-011, *Aerospace series - Cable, electrical for digital data transmission - Part 011: Single braid - Star Quad 100 ohms - Light weight - Type KL - Product standard*

EN 3375-012, *Aerospace series - Cable, electrical, for digital data transmission - Part 012: Single braid - Star Quad 100 ohms - 260 °C - Type KH - Product standard*

EN 3645-001, *Aerospace series - Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous - Part 001: Technical specification*

EN 3909, *Aerospace series - Test fluids and test methods for electrical and optical components and sub-assemblies*

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 - Product standard*

SAE-AS22520, *Crimping Tools, Wire Termination, General Specification for)*

SAE-AS81969/14, *Installing and Removal Tools, Connector Electrical Contact, Type III, Class 2, Composition B²⁾*

3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>

1) Published as ASD-STAN Standard at the date of publication of this document by AeroSpace and Defence industries Association of Europe — Standardization (ASD-STAN), <https://www.asd-stan.org/>