



BSI Standards Publication

Aerospace series — Electrical contacts used in elements of connection

Part 009: Contacts, electrical, female 009, type A,
crimp, class S — Product standard

National foreword

This British Standard is the UK implementation of EN 3155-009:2025. It supersedes [BS EN 3155-009:2019](#), which is withdrawn.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.

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Amendments/corrigenda issued since publication

Date	Text affected
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English Version

**Aerospace series - Electrical contacts used in elements of
connection - Part 009: Contacts, electrical, female 009,
type A, crimp, class S - Product standard**

Série aérospatiale - Contacts électriques utilisés dans
les organes de connexion - Partie 009 : Contacts
électriques, femelles 009, type A, à sertir, classe S -
Norme de produit

Luft- und Raumfahrt - Elektrische Kontakte zur
Verwendung in Verbindungselementen - Teil 009:
Elektrische Buchsenkontakte 009, Typ A, crimpbar,
Klasse S - Produktnorm

This European Standard was approved by CEN on 25 November 2024.

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European foreword

This document (EN 3155-009:2025) has been prepared by 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-STAN, 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of an identical text or by endorsement, at the latest by September 2025, and conflicting national standards shall be withdrawn at the latest by September 2025.

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 supersedes EN 3155-009:2019.

This document includes the following significant technical changes with respect to EN 3155-009:2019:

- normative references updated;
- footnote added for diameters E and G in Figure 1;
- remarks modified in Table 8, test EN 2591-403 (sinusoidal and random vibration).

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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1 Scope

This document specifies the required characteristics, tests and tooling applicable to female electrical contacts 009, type A, crimp, class S, used in elements of connection pertaining to EN 3155-002.

It is used together with EN 3155-001.

The associated male contacts are specified in EN 3155-008.

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

EN 2591-101, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 101: Visual examination*

EN 2591-102, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 102: Examination of dimensions and mass*

EN 2591-201, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 201: Contact resistance — Low level*

EN 2591-202, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 202: Contact resistance at rated current*

EN 2591-203, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 203: Electrical continuity at microvolt level*

EN 2591-204, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 204: Discontinuity of contacts in the microsecond range*

EN 2591-206, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 206: Measurement of insulation resistance*

EN 2591-207, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 207: Voltage proof test*

EN 2591-210, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 210: Electrical overload*

EN 2591-211, *Aerospace series — Elements of electrical and optical connection — Test Methods — Part 211: Capacitance*

EN 2591-212, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 212: Surface transfer impedance*

EN 2591-213, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 213: Shielding effectiveness from 100 MHz to 1 GHz*

EN 2591-220, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 220: Contact/conductor joint ageing by current and temperature cycling*

EN 2591-221, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 221: Voltage Standing Wave Ratio (VSWR)*

EN 2591-222, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 222: Insertion Loss (I.L.)*

EN 2591-223, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 223: Measurement of characteristic impedance of a coaxial connector or contact*

EN 2591-305, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 305: Rapid change of temperature*

EN 2591-306, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 306: Mould growth*

EN 2591-307, *Aerospace series — Elements of electrical and optical connection; test methods — Part 307: Salt mist*

EN 2591-315, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 315: Fluid resistance*

EN 2591-316, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 316: Ozone resistance*

EN 2591-319, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 319: Gastightness of solderless wrapped connections*

EN 2591-402, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 402: Shock*

EN 2591-403, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 403: Sinusoidal and random vibration*

EN 2591-406, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 406: Mechanical endurance*

EN 2591-415, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 415: Test probe damage (female contacts)*

EN 2591-416, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 416: Contact bending strength*

EN 2591-417, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 417: Tensile strength (crimped connection)*

EN 2591-418, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 418: Gauge insertion/extraction forces (female contacts)*

EN 2591-424, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 424: Stripping force, solderless wrapped connections*

EN 2591-425, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 425: Unwrapping capability, solderless wrapped connections*

EN 2591-501, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 501: Soft solderability*

EN 2591-502, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 502: Restricted entry*

EN 2591-503, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 503: Contact deformation after crimping*

EN 2591-507, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 507: Plating porosity*

EN 2591-508, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 508: Measurement of thickness of coating on contacts*

EN 2591-509, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 509: Adhesion of coating on contacts*

EN 2591-513, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 513: Magnetic permeability*

EN 2591-514, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 514: Solderability of contacts with self-contained solder and flux*

EN 3155-001, *Aerospace series — Electrical contacts used in elements of connection — Part 001: Technical Specification*

EN 3645 (all parts), *Aerospace series — Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous*

EN 3660-020, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 020: Cable outlet, style A, straight, unsealed, self-locking with clamp strain relief for EN 3645 — Product standard*

EN 4434, *Aerospace series — Copper or copper alloy lightweight conductors for electrical cables — Product standard (Normal and tight tolerances)*

TR 4837,¹ *Aerospace series — Applicable crimping tools for electrical contact product standards EN 3155-003, EN 3155-008 and EN 3155-009 for contact size 10 and barrel size 10 only*

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

SAE AS 22520,² *Crimping Tools, Wire Termination, General Specification For*

SAE AS 81969,² *Installing and Removal Tools, Connector Electrical Contact, General Specification for*

¹ Published as ASD-STAN TR, available at: <https://www.asd-stan.org/>.

² Published by Society of Automotive Engineers (SAE), available at: <https://www.sae.org/>.