



SLOVENSKI STANDARD SIST EN 3373-014:2009

01-maj-2009

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Aerospace series - Terminal lugs and in-line splices for crimping on electric conductors - Part 014: In-line splices, insulated and sealed, for crimping on copper conductors, temperature up to 200 °C - Product standard

STANDARD PREVIEW

Luft- und Raumfahrt - Kabelschuhe und Stossverbinder zum crimpen an elektrische Leitungen - Teil 014: Stossverbinder isoliert, abgedichtet, Crimpversion Kupferleitungen, für Temperaturen bis 200 °C - Produktnorm

[SIST EN 3373-014:2009](https://standards.iteh.ai/catalog/standards/sist/96dd7b33-5302-4fd3-8bdb-)

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Série aérospatiale - Cosses et prolongateurs pour sertissage sur conducteurs électriques - Partie 014: Prolongateurs isolés et étanches pour sertissage sur conducteurs en cuivre, température jusqu'à 200 °C - Norme de produit

Ta slovenski standard je istoveten z: EN 3373-014:2009

ICS:

49.060 Š^c^ \ aš Ā^• [|b \ æ Aerospace electric
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EUROPEAN STANDARD

EN 3373-014

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2009

ICS 49.060

English Version

**Aerospace series - Terminal lugs and in-line splices for crimping
on electric conductors - Part 014: In-line splices, insulated and
sealed, for crimping on copper conductors, temperature up to
200 °C - Product standard**

Série aérospatiale - Cosses et prolongateurs pour
sertissage sur conducteurs électriques - Partie 014:
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Norme de produit

Luft- und Raumfahrt - Kabelschuhe und Stossverbinder
zum crimpen an elektrische Leitungen - Teil 014:
Stossverbinder isoliert, abgedichtet, Crimpversion
Kupferleitungen, für Temperaturen bis 200 °C -
Produktnorm

This European Standard was approved by CEN on 30 August 2008.

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 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 Management Centre has the same status as the official versions.

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

Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN 3373-014:2009) 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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EN 3373-014:2009 (E)**1 Scope**

This standard defines the characteristics of sealed, insulated, nickel plated, in-line splices for crimping on nickel plated copper conductors. They may be used at temperatures up to 200 °C maximum on nickel plated conductors with insulation rated for at least 135 °C.

This standard shall be used in conjunction with EN 3373-001.

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

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

EN 3373-001, *Aerospace series — Terminal lugs and in-line splices for crimping on electric conductors — Part 001: Technical specification.*

MIL-DTL-22520/37: September 1997, *Crimping tool, electrical, wire splicing, hand actuated, Type 2, for environmental splices, wire range 26-12 AWG.*¹⁾

ASTM B75-97, *Standard specification for seamless copper tube.*²⁾

SAE-AMS-QQ-M-290, *Nickel plating (Electrodeposited).*³⁾

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 3373-001 apply.

4 Characteristics**4.1 Temperature range**

The operational range for the assemblies specified is – 65 °C to 200 °C.

1) Published by: Department of Defense (DoD), the Pentagon, Washington, DC 20301, USA.

2) Published by: American Society for Testing and Materials (ASTM), 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959, USA.

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

4.2 Materials

4.2.1 Insulating sleeve

The outer insulating and sealing sleeve shall be heat-shrinkable, transparent blue, radiation cross-linked modified fluoropolymer with meltable inner sealing rings of modified thermoplastic fluoroelastomer.

4.2.2 Crimp barrel

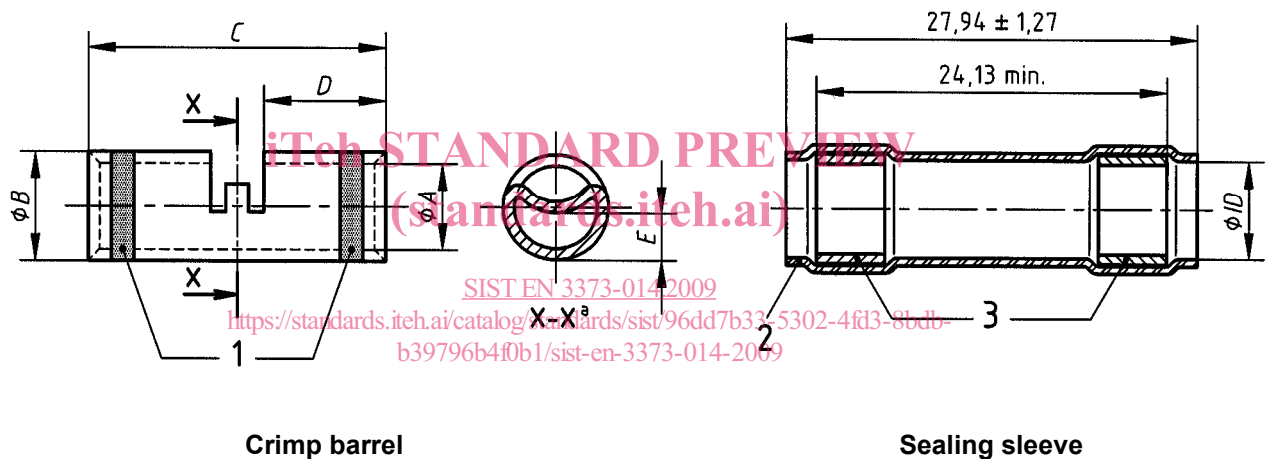
The crimp barrel shall be copper alloy ASTM B75.

4.2.3 Plating of crimp barrel

The plating of the crimp barrel shall be nickel per SAE-AMS-QQ-M-290.

4.3 Dimensions and mass

For dimensions and mass, see Figure 1 and Tables 1 and 2.



Key

- 1 Colour code (see Table 1)
- 2 Insulation sleeve
- 3 Meltable rings
- ^a After crimping

Figure 1 — Crimp barrel and sealing sleeve

Table 1 — Barrel plating, conductor range and colour codes

Item code	Plating on barrel	Colour code bands	Range of conductors as per EN 2083		Mass per 1 000 pieces g
			EN Codes	AWG	
001	Nickel	Red	001 – 006	26 – 20	463
002	Nickel	Blue	006 – 012	20 – 16	731
003	Nickel	Yellow	010 – 030	18 – 12	1 235

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Table 2 — Dimensions of crimp barrels and sealing sleeves

Item code	Crimp barrel					Sealing sleeve	
	$\varnothing A$	$\varnothing B$ $\pm 0,05$	C $\pm 0,25$	D $\pm 0,25$	E max.	As supplied $\varnothing ID$ min	Minimum acceptable cable diameter
001	$1,205 \pm 0,065$	$1,97 \pm 0,060$	12,7	5,97	0,38	2,16	0,64
002	$1,69 \pm 0,060$	$2,635 \pm 0,065$	14,61	6,86	0,51	2,79	0,64
003	$2,53 \pm 0,070$	$3,81 \pm 0,080$	14,61	6,86	1,27	4,32	0,64

5 Tests and requirements

- 5.1 The tests and requirements shall be in accordance with EN 3373-001 with the following exceptions.
- 5.2 For test EN 2591-305, T_B shall be -65 °C.
- 5.3 Dielectric withstand voltage, 2 500 volts D.C. for 1 min. The leakage current shall be less than 2 mA.
- 5.4 Insulation resistance shall be greater than 5 000 M Ω .

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6 Designation

EXAMPLE

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Description block | Identity block
SEALED IN-LINE SPLICE | **EN3373-014-XXX**

Number of this standard _____

Item code (see Table 1) _____

NOTE If necessary, the code I9005 may be placed between the description block and the identity block.

7 Quality assurance

Quality assurance shall be in accordance with EN 3373-001.

8 Details of assembly tooling

8.1 Crimping tools

Crimping tools shall conform to the requirements of MIL-DTL-22520/37.