
5 YfcbUj h_UË? UWyg_j` Yj`1]b`gdc`bY`hi`_Y`nUgdUUb`Y`g`ghjg_Ub`Ya`bUYY`hf] bY`
j`cXb]_Y`Ë`\$`%`"XY.`Gdc`bY`hi`_Y`Z]nc`]f`UbY`]b`c`XdcfbY`dfc]j`j`U]`jžnUgdUUb`Y`g`
ghjg_Ub`Ya`bUVU`fYbY`j`cXb]_Y`žhYa`dYfUhi`fYXc`&`\$`š7`Ë`GfUbXUfX`nUdfc]nj`cX

Aerospace series - Terminal lugs and in-line splices for crimping on electric conductors - Part 013: In-line splices, insulated and moisture resistant, for crimping on copper conductors, temperature up to 260 °C - Product standard

Luft- und Raumfahrt - Kabelschuhe und Stossverbinder zum Crimpen auf elektrischen Leitungen - Teil 013: Stossverbinder isoliert und feuchtigkeitsbeständig, zum Crimpen auf Leitungen aus Kupfer, für Temperaturen bis 260 °C - Produktnorm

Série aérospatiale - Cosses et prolongateurs pour sertissage sur conducteurs électriques - Partie 013 : Prolongateurs isolés, résistant à l'humidité, pour sertissage sur conducteurs en cuivre, température jusqu'à 260 °C - Norme de produit

Ta slovenski standard je istoveten z: EN 3373-013:2005

ICS:

49.060

SIST EN 3373-013:2006**en**

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ICS 49.060

English Version

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moisture resistant, for crimping on copper conductors,
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Norme de produit

Luft- und Raumfahrt - Kabelschuhe und Stossverbinder
zum Crimpen auf elektrischen Leitungen - Teil 013:
Stossverbinder isoliert und feuchtigkeitsbestandig, zum
Crimpen auf Leitungen aus Kupfer, für Temperaturen bis
260 °C - Produktnorm

This European Standard was approved by CEN on 28 October 2005.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This European Standard (EN 3373-013:2005) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-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 AECMA, 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 June 2006, and conflicting national standards shall be withdrawn at the latest by June 2006.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This standard defines the characteristics of moisture resistant, insulated, nickel plated, in-line splices for crimping on nickel plated copper conductors. They may be used at temperatures up to 260 °C maximum.

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 or copper alloy conductors in 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.* ¹⁾

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

MIL-STD-202, *Test method standard electronic and electrical component parts.* ²⁾

ASTM B 75, *Standard specification for seamless copper tube.* ³⁾

QQ-N-290A, *Nickel plating (Electrodeposited).* ⁴⁾

3 Terms and definitions

For the purposes of this standard, 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 260 °C.

-
- 1) Published as AECMA Prestandard at the date of publication of this standard.
 - 2) Available from: Department of Defence (DOD), the Pentagon, Washington D.C. 20301 USA.
 - 3) Available from ASTM, 100 Barr Harbor, West Conshohocken, PA 19428, USA.
 - 4) Available from Naval Air Systems Command, Highway 547, Lakehurst, NJ 08733-5100.

4.2 Materials

4.2.1 Insulating sleeve

The outer insulating and sealing sleeve shall be heat-shrinkable polytetrafluoroethylene (PTFE) with meltable inner sleeve of fluorinated ethylene propylene (FEP).

4.2.2 Crimp barrel

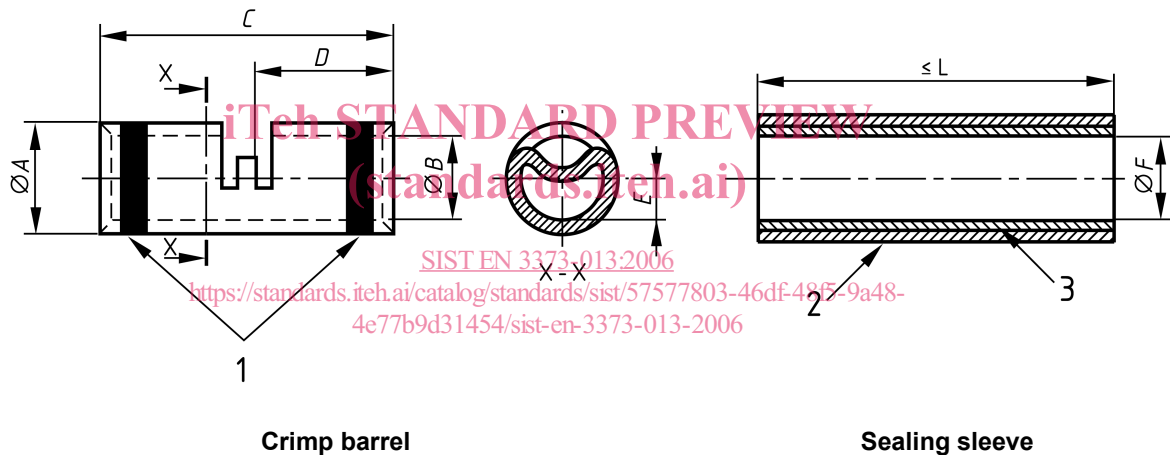
The crimp barrel shall be copper alloy ASTM B 75.

4.2.3 Plating of crimp barrel

The plating of the crimp barrel shall be nickel per QQ-N-290A.

4.3 Dimensions and mass

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



Key

- 1 Colour code bands
- 2 Sealing sleeve
- 3 Meltable inner

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 g/1 000 parts
			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

Table 2 — Dimensions of crimp barrels and sealing sleeves

Item code	Crimp barrel					Sealing sleeve		
	$\varnothing A$ $\pm 0,05$	$\varnothing B$ $\pm 0,05$	C $\pm 0,25$	D $\pm 0,25$	E max.	As supplied $\varnothing F$ min.	Minimum acceptable cable diameter	L
001	1,96	1,22	12,70	5,97	0,38	3,18	0,45	38,0
002	2,62	1,70	14,61	6,86	0,51	3,18	0,94	38,0
003	3,81	2,54	14,61	6,86	1,27	4,80	1,80	38,0

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_A shall be $-65\text{ }^\circ\text{C}$.

5.3 Test MIL-STD-202 Method 106F, Moisture Resistance shall be carried out in place of EN 2591-314 with measurements and requirements as follows. Measurements shall be made before and after humidity conditioning and the specimens shall be closely wrapped in aluminium foil when these measurements are made.

— Dielectric withstand voltage, 2 500 volts D.C. for 1 min. The leakage current shall be less than 2 mA.

— Insulation resistance shall be greater than 5 000 M Ω .

6 Designation

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EXAMPLE

Description block	Identity block
SEALED IN-LINE SPLICE	EN3373-013-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.