



SLOVENSKI STANDARD SIST EN 3373-011:2009

01-maj-2009

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Aerospace series - Terminal lugs and in-line splices for crimping on electric conductors - Part 011: Terminal lugs, ring shaped, nickel plated, for crimping on copper conductors, temperature up to 260 °C for metric and inch stud series - Product standard

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Luft- und Raumfahrt - Kabelschuhe und Verlängerungen für das Crimpen auf elektrische Leiter - Teil 011: Kabelschuhe, ringförmig, (vernickelt) für das Crimpen auf Kupferleitungen, Betriebstemperatur bis 260 °C für metrische und zöllige Gewindebolzen - Produktnorm

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Série aérospatiale - Cosses et prolongateurs pour sertissage sur conducteurs électriques - Partie 011: Cosses, rondes, nickelées pour sertissage sur conducteurs en cuivre, température jusqu'à 260 °C pour bornages filetés en métriques et en pouces - Normes de produit

Ta slovenski standard je istoveten z: EN 3373-011:2009

ICS:

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

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EUROPEAN STANDARD

EN 3373-011

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2009

ICS 49.060

English Version

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This European Standard was approved by CEN on 11 July 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 3373-011:2009) 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 August 2009, and conflicting national standards shall be withdrawn at the latest by August 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.

This standard was reviewed by the Domain Technical Coordinator of ASD-STAN's Electrical Domain.

After inquiries and votes carried out in accordance with the rules of ASD-STAN defined in ASD-STAN's General Process Manual, this standard has received approval for Publication.

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 3373-011:2009 (E)**1 Scope**

This standard defines the characteristics of nickel plated copper ring shaped terminals for crimping on nickel plated copper conductors. They are for use on both metric and inch dimension studs at temperatures up to 260 °C maximum.

This standard should 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 2424, *Aerospace series — Marking of aerospace products*

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

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

SAE-AS 20659, *Terminal, lug crimp style, copper, uninsulated, ring tongue, type I, class I, for 175 °C total conductor temperature*¹⁾

MIL-DTL-22520, *Crimping tools, wire termination, general specification for*²⁾

MS25441, *Crimping tool, terminal, hydraulic operated, wire size 8 thru 4/0*^{2) 3)}

MS90485, *Dies, crimping tool, for use with MS20659 uninsulated wire terminals (for wire sizes 8 through 4/0)*²⁾

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3 Terms and definitions

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

4 Characteristics

The operational range for nickel plated terminal lugs shall be – 65 °C to 260 °C.

When split barrel construction is used the split shall be permanently sealed and shall not open as a result of crimping. All surfaces shall be smooth and free from burrs and sharp edges.

5 Dimensions and mass

For dimensions and mass, see Table 1 and Figure 1. These dimensions are based upon metric conversions of SAE-AS 20659.

* All parts quoted in this standard.

1) Published by: Society of Automotive Engineering (SAE), 400 Commonwealth Drive, Warrendale, PA 15096, USA.

2) Published by: Department of Defence (DOD), the Pentagon, Washington D.C. 20301 USA.

3) Inactive for new design

Table 1 — Crimp lug dimensions

Dimensions in millimetres

Code	Wire size	Stud size	<i>A</i>	<i>B</i>	<i>C</i> rad	<i>D</i>		$\varnothing E$	$\varnothing F$	$\varnothing G$		$\varnothing J$	<i>W</i>		
			max.	min.	min.	max.	min.			max.	min.		min.	max.	min.
001	004 - 010 (22-18)	2,18 (2)	22,61	6,35	3,17	1,14	0,58	3,56	1,85	2,49	2,29	3,05	6,60	4,52	
002		2,84 (4)								3,10	2,90				
003		3,50 (6)								3,86	3,61				
004		4,83 (10)	24,59					4,37	2,92	1,32	5,16		4,90	8,13	7,75
005		7,92 (5/16)	30,15					7,21			8,58		8,20	13,72	11,43
006		9,52 (3/8)	33,22					8,33			10,16		9,78	13,72	13,21
007		12,70 (1/2)	38,86					9,60			13,34		12,95	18,62	17,86
008	012 - 020 (16 - 14)	0,284 (4)	24,05	6,35	3,17	1,35	0,74	4,12	2,41	3,10	2,90	3,89	6,76	5,94	
009		3,50 (6)	24,26							4,37	8,31		7,54		
010			23,97							3,17	6,76		5,94		
011		4,83 (10)	24,26					4,37	3,68	2,06	5,15		4,90	8,31	7,54
012		7,92 (5/16)	31,72					7,21			8,58		8,20	13,72	11,53
013		9,52 (3/8)	32,77					8,33			10,16		9,78	13,61	
014		12,70 (1/2)	40,46					9,60			13,33		12,95	18,62	17,86
015	030 - 050 (12 - 10)	3,50 (6)	24,26	6,35	5,13	2,03	0,96	5,84	3,53	4,52	3,61	N/A	8,05	7,37	
016		4,83 (10)	24,4							4,37	5,16		4,90	9,93	9,27
017		7,92 (5/16)	29,36					7,52	8,58	8,20	13,89		12,32		
018		9,52 (3/8)	29,77					8,33	10,16	9,78	15,19		13,61		
019		12,70 (1/2)	43,64					9,60	13,33	12,95	18,62		17,86		
020	090 (8)	4,17 (8)	29,10	8,00	5,94	2,13	0,96	6,91	4,72	4,52	4,27	N/A	10,90	9,80	
021		4,83 (10)								5,16	4,90				
022		6,35 (1/4)	30,96							6,99	6,60				12,14
023		7,92 (5/16)	32,94					7,52	8,58	8,20	14,97		13,89		
024		9,52 (3/8)						8,33						10,16	9,78
025		12,70 (1/2)						11,18						13,33	12,95

continued

Table 1 — Crimp lug dimensions (continued)

Code	Wire size	Stud size	A	B	C rad	D		Ø E	Ø F	Ø G		Ø J	W				
			max.	min.	min.	max.	min.			max.	min.	min.	max.	min.			
026	140 (6)	4,83 (10)	33,32	9,52	6,05	2,13	1,09	8,03	5,89	5,16	4,90	N/A	12,78	11,68			
027		6,35 (1/4)			6,73					6,98	6,60						
028		7,92 (5/16)	36,50		7,75					8,58	8,20						
029		9,52 (3/8)			8,33					10,16	9,78						
030		12,70 (1/2)	42,57		11,18					7,49	5,64				13,33	12,95	
031	220 (4)	4,83 (10)	35,56	11,10	7,01	2,44	1,19	9,65	7,37	5,16	4,90	N/A	15,95	12,19			
032		6,35 (1/4)	48,01		7,8232					6,98	6,60						
033		7,92 (5/16)			8,3312					8,58	8,20						
034		9,52 (3/8)	43,71		11,176					9,27	7,11				10,16	9,78	
035		12,70 (1/2)			13,33					12,95							
036	340 (2)	4,83 (10)	43,99	12,83	8,71	2,77	1,37	12,01	9,27	5,16	4,90	N/A	18,06	16,97			
037		6,35 (1/4)								6,98	6,60						
038		7,92 (5/16)								8,58	8,20						
039		9,52 (3/8)								10,16	9,78						
040		11,1 (7/16)	48,13							11,51	11,43				9,017	11,76	11,38
041	12,70 (1/2)	13,33		12,9													
042	420 (1)	6,35 (1/4)	46,86	14,35	9,73	3,17	1,78	13,39	10,11	6,98	6,60	N/A	19,89	18,80			
043		7,92 (5/16)								8,58	8,20						
044		9,52 (3/8)	50,29							11,51	10,16				9,779	11,76	11,38
045		11,1 (7/16)									12,83				9,85	13,33	12,95
046		12,70 (1/2)	13,33							12,95							
047	530 (0)	6,35 (1/4)	51,94	16,00	10,62	3,17	1,78	14,68	11,63	6,98	6,60	N/A	21,67	20,57			
048		7,92 (5/16)								8,58	8,20						
049		9,52 (3/8)	53,14							11,51	10,16				9,779	11,76	11,38
050		11,1 (7/16)									14,17				11,12	13,33	12,95
051		12,70 (1/2)	13,33							12,95							

continued

Table 1 — Crimp lug dimensions (concluded)

Code	Wire size	Stud size	<i>A</i>		<i>C</i> rad min.	<i>D</i>		$\varnothing E$	$\varnothing F$	$\varnothing G$		$\varnothing J$ min.	<i>W</i>		
			max.	min.		max.	min.			max.	min.		max.	min.	
052	680 (00)	6,35 (1/4)	58,93	17,78	12,01	3,28	1,90	16,26	13,21	6,98	6,60	N/A	24,28	23,65	
053		7,92 (5/16)								8,58	8,20				
054		9,52 (3/8)						10,16	9,779						
055		11,1 (7/16)						11,76	11,38						
056		12,70 (1/2)						13,33	12,95						
057	850 (000)	7,92 (5/16)	62,36	18,24	13,03	3,56	2,16	18,14	14,66	8,58	8,20		N/A	26,75	25,6
058		9,52 (3/8)								10,16	9,779				
059		11,1 (7/16)						11,76	11,38						
060		12,70 (1/2)						13,33	12,95						
061	107 (0000)	7,92 (5/16)	69,98	18,64	14,22	3,81	2,41	19,91	16,38	8,58	8,20			N/A	29,16
062		9,52 (3/8)								10,16	9,78				
063		11,1 (7/16)								11,76	11,38				
064		12,70 (1/2)						13,33	12,95						
065		(5/8)						16,92	16,53						
066		(3/4)						19,94	19,56						
067		(7/8)						23,11	22,73						
								19,30	15,8				32,21		30,48

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