



SLOVENSKI STANDARD SIST EN 3660-004:2009

01-maj-2009

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Aerospace series - Cable outlet accessories for circular and rectangular electrical and optical connectors - Part 004: Cable outlet, style A, straight, unsealed with clamp strain relief for EN 2997 and EN 4067 - Product standard

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Luft- und Raumfahrt - Endgehäuse für elektrische und optische Rund- und Rechtecksteckverbinder - Teil 004: Endgehäuse, Bauform A, gerade Ausführung, nicht abgedichtet, mit Zugentlastungsklemme für EN 2997 und EN 4067 - Produktnorm

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Série aérospatiale - Accessoires arrières pour connecteurs circulaires et rectangulaires électriques et optiques - Partie 004 : Raccord droit non étanche type A avec brides serre-câble pour EN 2997 et EN 4067 - Norme de produit

Ta slovenski standard je istoveten z: EN 3660-004:2006

ICS:

49.060 Š^c^p \ ašš Á^• [|b \ æ Aerospace electric
^|\ dā } aš] !^ { ašš Á ã c^ { ã equipment and systems

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EUROPEAN STANDARD

EN 3660-004

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2006

ICS 49.060

English Version

Aerospace series - Cable outlet accessories for circular and rectangular electrical and optical connectors - Part 004: Cable outlet, style A, straight, unsealed with clamp strain relief for EN 2997 and EN 4067 - Product standard

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This European Standard was approved by CEN on 28 April 2006.

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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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COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This European Standard (EN 3660-004:2006) 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 February 2007, and conflicting national standards shall be withdrawn at the latest by February 2007.

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.

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EN 3660-004:2006 (E)**1 Scope**

This product standard defines a range of cable outlets, style A, straight, unsealed with clamp strain relief for use under the following conditions:

Associated electrical connector(s) :	EN 3660-002
Temperature range, Class N :	– 65 °C to 200 °C
Class W :	– 65 °C to 175 °C
Class K :	– 65 °C to 260 °C
Class A :	– 65 °C to 200 °C

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

EN 3660-001, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 001: Technical specification.*

EN 3660-002, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 002: Index of product standards.*

AS 85049A, *Connector Accessories, Electrical General Specification for-¹⁾*

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3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 3660-001 apply.

4 Characteristics**4.1 Dimensions and mass**

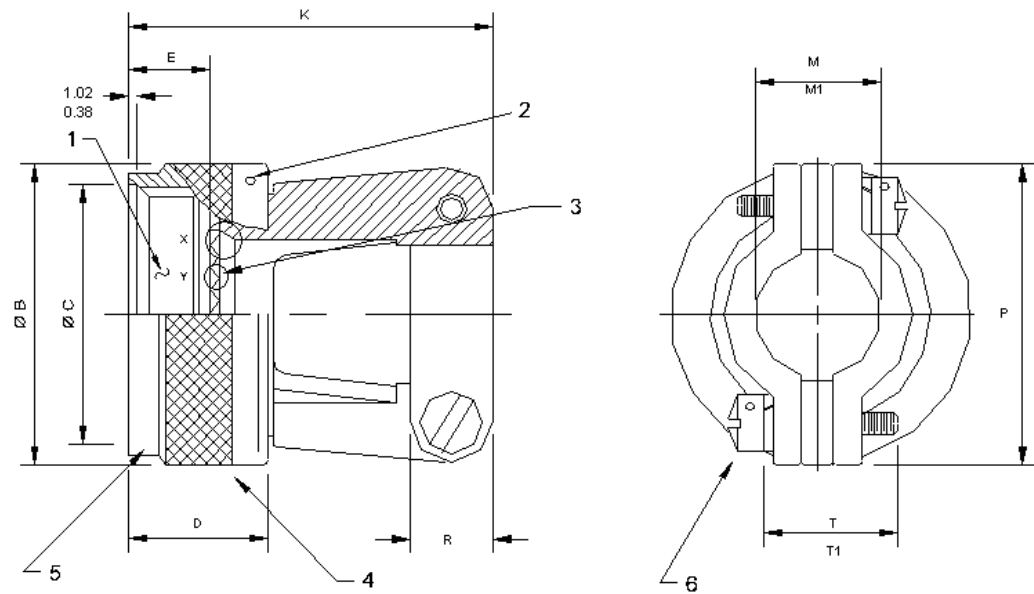
For dimensions and mass, see Figure 1 and Table 1.

For interface dimensions, see 4.2.

All dimensions in millimetres.

* All its parts quoted in this standard.

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



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Key

- 1 Thread *A*
- 2 3 off wire lock holes equi-spaced for 0,8 mm max. diameter wire
- 3 Teeth *N* (see Tables 2 and 3)
- 4 Knurled, manufacturer's option
- 5 Marking (see clause 6)
- 6 Fillister head screw with wire lock hole

NOTE 1 The details X and Y are shown in the different variants (see 4.2.2 and 4.2.3)

NOTE 2 Coupling nut to be captive on cable outlet body but free to rotate.

Figure 1

Table 1

Shell size	A Thread Class 2B inches	$\varnothing B$ 0 - 1,14 mm	$\varnothing C$ + 0,64 0 mm	D 0 - 1,57 mm	E ^a 0 - 0,56 mm	K $\pm 1,57$ mm	M ^b Wire accommodation	
							max. mm	min. mm
08	0.500-20UNF	15,67	12,74	13,72	7,75	22,61	5,2	3,2
10	0.625-24UNEF	18,64	15,88	13,72	7,75	25,40	7,3	4,8
12	0.750-20UNEF	21,79	19,05	13,72	7,75	28,58	9,8	7,4
14	0.875-20UNEF	24,99	22,23	13,72	7,75	28,58	11,3	9,0
16	1.000-20UNEF	28,24	25,40	13,72	7,75	31,75	15,1	12,8
18	1.063-18UNEF	30,94	27,00	13,72	7,75	38,10	16,3	13,2
20	1.188-18UNEF	34,16	30,18	13,72	7,75	41,28	17,9	15,0
22	1.313-18UNEF	37,29	33,35	13,72	7,75	43,18	19,5	16,3
24	1.438-18UNEF	40,46	36,53	13,72	7,75	47,62	20,3	18,0
28	1.750-18UNS	50,01	44,45	17,83	7,75	55,55	20,7	19,0

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Table 1 (concluded)
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Shell size	M1 ^b Wire accommodation		P $\pm 0,5$ mm	R $\pm 0,5$ mm	Screw size Class 2A inches	T ^b $\pm 0,8$ mm	T1 ^b $\pm 0,8$ mm	Mass Class N, A and W Class K	
	max. mm	min. mm						max. g	
08	5,2	3,2	18,6	6,35	6-32UNC	12,7	12,7	8,5	19,6
10	7,3	4,8	20,6	6,35	6-32UNC	12,7	12,7	10,0	21,2
12	10,6	7,4	24,6	6,35	6-32UNC	12,7	15,9	11,5	23,9
14	12,0	09,0	26,1	6,35	6-32UNC	12,7	15,9	14,0	27,6
16	16,0	12,8	33,0	6,35	6-32UNC	12,7	15,9	16,5	35,1
18	18,0	13,2	36,4	9,53	8-32UNC	15,9	19,1	24,0	45,0
20	21,0	15,0	39,0	9,53	8-32UNC	15,9	22,3	28,0	51,1
22	24,3	16,3	41,5	9,53	8-32UNC	15,9	25,4	30,5	55,7
24	27,5	18,0	44,6	9,53	8-32UNC	15,9	28,6	34,5	73,6
28	30,0	19,0	50,8	12,70	8-32UNC	19,05	31,8	55,5	89,8

^a E dimension is taken when the coupling nut is pulled in forward position.^b M and T dimensions are for variants A and D; M1 and T1 dimensions are for variants B and C. M and M1 diameters are wire bundle accommodation and are not meant to define the clamp hardware limits.

4.2 Interface dimensions

4.2.1 Associated connection

See EN 3660-002.

4.2.2 Variants A and C – AS85049 interface

See Figure 2, Figure 3 and Table 2.

All dimensions in millimetres

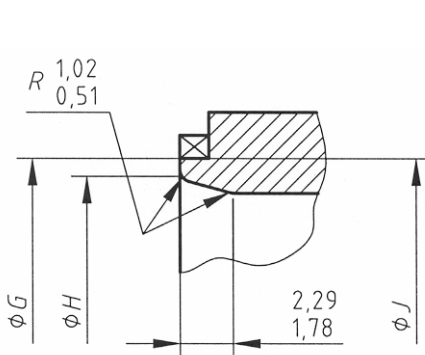


Figure 2 — Detail X

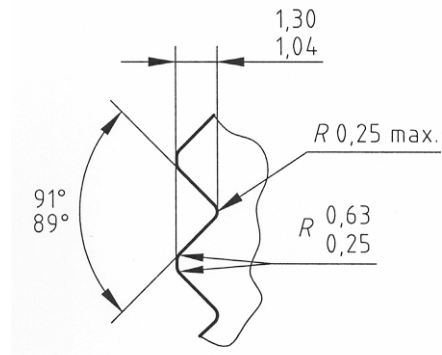


Figure 3 — Detail Y

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Table 2

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Shell size	ϕG 0 - 0,38 mm	ϕH + 0,38 0 mm	ϕJ 0 - 0,25 mm	N Number of teeth
08	9,10	7,59	6,86	12
10	12,50	11,00	9,53	15
12	15,50	13,94	12,98	21
14	18,70	17,12	14,86	24
16	21,80	20,29	18,03	30
18	23,30	22,07	20,04	33
20	26,40	25,25	23,22	36
22	29,60	28,42	26,39	39
24	32,80	31,60	29,31	42
28	38,40	37,31	35,28	54