
Aeronavtika - Dodatki za okrogle in pravokotne električ ne in optič ne konektorje - 018. del: Kabelska spojka, tip A, 90°, netesnjena, z drgalom za spojko - Standard za proizvod

Aerospace series - Cable outlet accessories for circular and rectangular electrical and optical connectors - Part 018: Cable outlet, style A, 90°, unsealed, with cable tie strain relief - Product standard

Luft- und Raumfahrt - Endgehäuse für elektrische und optische Rund- und Rechtecksteckverbinder - Teil 018: Endgehäuse, Bauform A, 90°, nicht abgedichtet, mit Arm für Kabelbinder - Produktnorm

Série aérospatiale - Accessoires arrière pour connecteurs circulaires et rectangulaires électriques et optiques - Partie 018: Raccord coudé 90° non étanche, type A, avec tenue du câble par freinage - Norme de produit

Ta slovenski standard je istoveten z: EN 3660-018:2009

ICS:

49.060

Letalska in vesoljska
električ na oprema in sistemi

Aerospace electric
equipment and systems

SIST EN 3660-018:2009

en

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EUROPEAN STANDARD
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English Version

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

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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 CEN Management Centre has the same status as the official versions.

[SIST EN 3660-018:2009](https://standards.iteh.ai/catalog/standards/sist/f6ced6c3-f0e0-49c3-b65d-1754673375e0/en-3660-018-2009)

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Foreword

This document (EN 3660-018:2009) 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of an identical text or by endorsement, at the latest by September 2009, and conflicting national standards shall be withdrawn at the latest by September 2009.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 3660-018:2009 (E)**1 Scope**

This product standard defines a range of cable outlets, style A, 90°, unsealed, with cable tie strain relief.

Associated electrical connector(s) : see EN 3660-002.

Temperature range, Class A : – 65 °C to 200 °C

Class N : – 65 °C to 200 °C

Class W : – 65 °C to 175 °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 2424, *Aerospace series — Marking of aerospace products.*

EN 2591-100*, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 100: General.*

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.*

EN 3660-036, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 036: Spacer spad — Product standard.*¹⁾

AS85049A, *Connector accessories, electrical general specification for.*²⁾

3 Terms and definitions

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

4 Characteristics**4.1 Dimensions and masses**

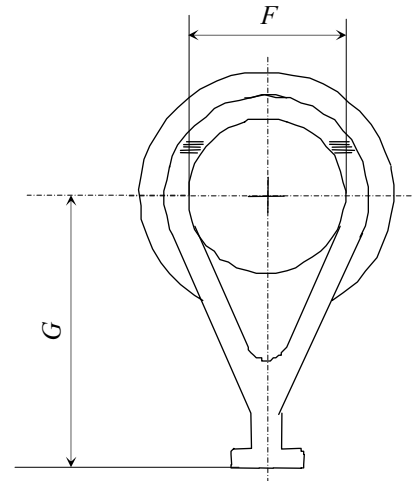
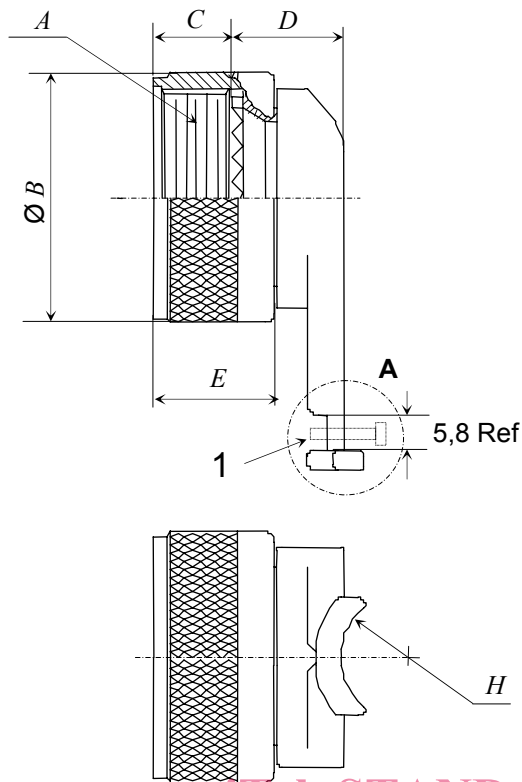
For dimensions and masses, see Figure 1, Figure 2c) and Table 1.

Dimensions and tolerances are in millimetres.

* All its parts quoted in this standard.

1) In preparation at the date of publication of this standard.

2) Published by: Department of Defense (DOD), the Pentagon, Washington, DC 20301, USA

**Key**

- 1 Cable tie or lace cord

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Figure 1

<https://standards.itech.ai/catalog/standards/sist/f6ced6a3-f0e0-49c3-bfa5-fb25a1f4a233/sist-en-3660-018-2009>

Detail A: see Figures 2a) to 2e).

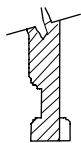


Figure 2a) —
Without ground
lug and
spacer pad

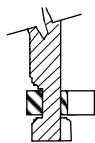


Figure 2b) —
Without ground
lug and
with spacer pad

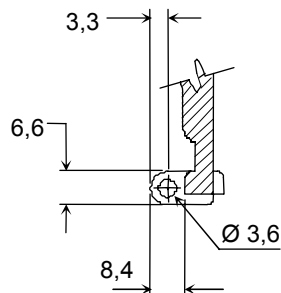


Figure 2c) —
With ground lug and
without spacer pad

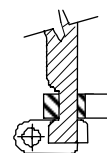


Figure 2d) —
With ground
lug and
spacer pad

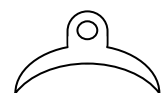


Figure 2e) —
Spacer pad
see EN 3660-036

Table 1

Shell size	A Thread	$\varnothing B$		C ^a	D	E	F	$\varnothing G$		H Rad	Number of teeth	Without self-locking	With self-locking
		Without	With					Without	With			Masses max. Classes A, N and W	g
		max.		$\pm 0,38$	max.	max.	min.	max.				g	g
09	M12x1-6H	19,60	24,80	6,29	11,80	12,50	7,59	22,60	24,60	2,11	12	5,5	6,5
11	M15x1-6H	20,80	26,90	6,29	12,60	12,50	10,85	24,10	26,10	2,87	16	6,0	7,5
13	M18x1-6H	23,90	29,70	6,29	13,60	12,50	13,74	27,20	29,20	3,81	20	7,5	9,0
15	M21x1-6H	27,20	32,70	6,29	14,60	12,50	16,92	33,80	35,80	4,77	24	11,0	13,0
17	M25x1-6H	30,70	36,10	6,29	15,00	12,50	20,09	35,30	37,30	5,66	28	12,5	14,5
19	M28x1-6H	34,50	39,10	6,29	17,40	12,50	22,18	37,60	39,60	7,13	32	13,5	16,0
21	M31x1-6H	37,60	42,40	6,29	17,40	12,50	25,96	42,20	44,20	7,13	36	15,0	18,5
23	M34x1-6H	40,60	51,10	6,29	18,20	12,50	29,13	47,00	49,00	7,82	40	17,5	20,5
25	M37x1-6H	43,20	53,80	6,29	19,20	12,50	32,31	48,50	48,50	8,89	44	20,5	25,0

^a "C" dimensions is taken when the coupling nut is pulled in forward position.

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4.2 Interface dimensions

4.2.1 Associated connectors

See EN 3660-002.

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4.2.2 Standard AS85049 interface

See Figure 3 and Table 2.

All dimensions in millimetres.

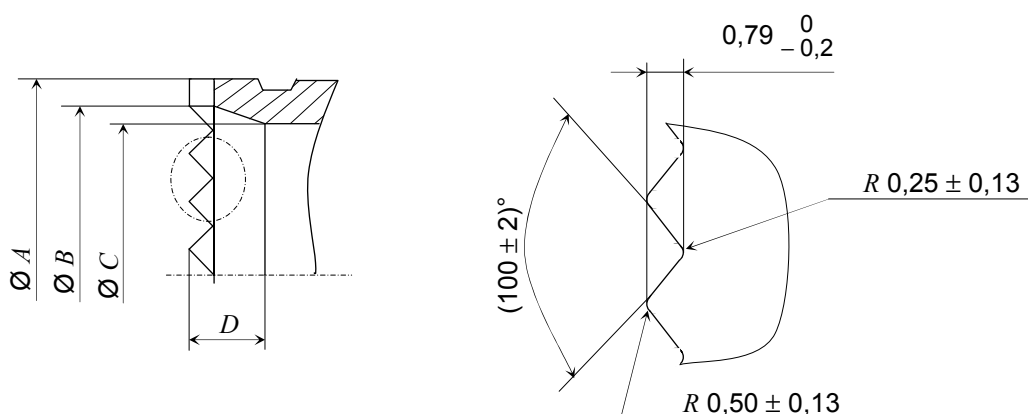


Figure 3

Table 2

Shell size	$\varnothing A$ 0 – 0,15 mm	$\varnothing B$ max. mm	$\varnothing C$ min. mm	D min. mm	N Number of teeth
09	10,57	8,50	7,59	2,90	12
11	13,56	12,07	10,85	2,90	16
13	16,58	14,96	13,74	2,90	20
15	20,57	18,14	16,92	2,90	24
17	23,57	21,21	20,09	2,90	28
19	25,57	24,00	22,18	2,90	32
21	29,97	27,08	25,96	2,90	36
23	32,56	30,35	29,13	2,90	40
25	35,56	33,53	32,31	1,70	44

4.3 Material and finish

Cable outlet: Class A : Aluminium/black anodised

Class N : Aluminium/electroless nickel plated

Class W : Aluminium/olive drab cadmium plated

Spacer pad: See EN 3660-036

4.4 Assembly torque

These torque values are intended for installation use only.

See Table 3.

Table 3

Shell size	Torque Nm $\pm 0,5$
09	7,80
11	10,60
13	15,20
15	16,30
17	16,30
19	16,30
21	19,10
23	19,10
25	19,10