
Aeronavtika - Dodatki za okrogle in pravokotne električne in optične konektorje - 007. del: Kabelska spojka, samozapiralna, tip C, 90°, oklopljena (konusni obroček), netesnjena, z razbremenilno sponko - Standard za proizvod

Aerospace series - Cable outlet accessories for circular and rectangular electrical and optical connectors - Part 007: Cable outlet, self-locking, style C, 90°, shielded (cone grounding), unsealed with clamp strain relief - Product standard

Luft- und Raumfahrt - Endgehäuse für elektrische und optische Rund- und Rechtecksteckverbinder - Teil 007: Endgehäuse, selbstsichernd, Bauform C, 90° Ausführung, Schirmanschluß (Konusring), nicht abgedichtet, mit Zugentlastungsklemme - Produktnorm

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Série aérospatiale - Accessoires arrière pour connecteurs circulaires et rectangulaires électriques et optiques - Partie 007: Raccord type C, coudé à 90°, non étanche, auto-freinant avec reprise de blindage (par cône) et brides serre-câble - Norme de produit

Ta slovenski standard je istoveten z: EN 3660-007:2010

ICS:

49.060

Letalska in vesoljska
električna oprema in sistemi

Aerospace electric
equipment and systems

SIST EN 3660-007:2010

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 3660-007

April 2010

ICS 49.060

English Version

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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.

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Foreword

This document (EN 3660-007:2010) 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of an identical text or by endorsement, at the latest by October 2010, and conflicting national standards shall be withdrawn at the latest by October 2010.

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 3660-007:2010 (E)**1 Scope**

This product standard defines a range of cable outlets, style C, anti-decoupling, 90°, shielded (cone grounding), unsealed with clamp strain relief for use under the following conditions:

The cable outlet permits the termination of individual and/or overall screens for thickness from 0,8 mm to 4,8 mm.

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.

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 2591-100¹⁾, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 100: General*

EN 3660-001:2006, *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*

AS85049B, *Connector Accessories, Electrical General Specification for- 2)*
<https://standards.iteh.ai/catalog/standards/sist/22c959e9-3e93-4941-866e-d13df7b28dca/sist-en-3660-007-2010>

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 3660-001:2006 apply.

4 Characteristics**4.1 Dimensions and mass**

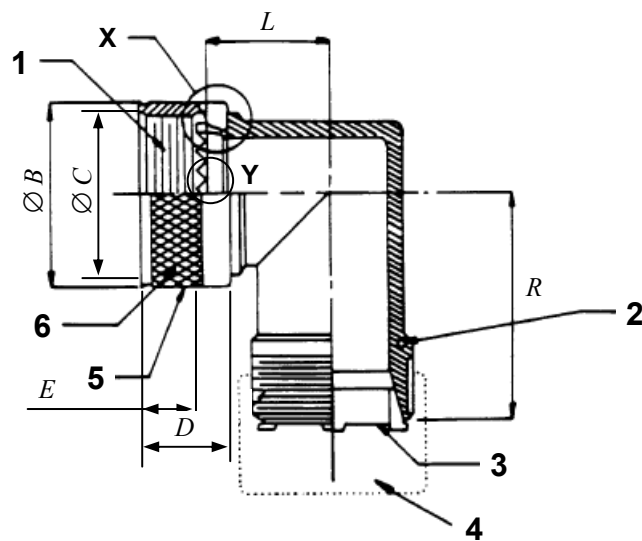
For dimensions and mass see Figure 1 and Table 1.

For interface dimensions see 4.2.

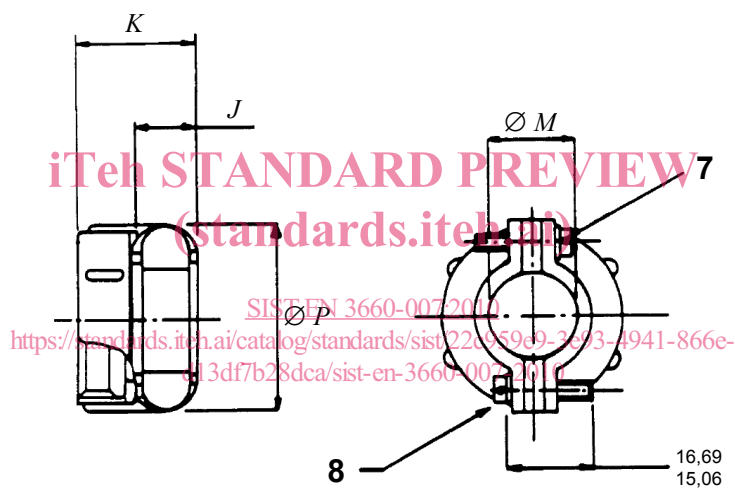
All dimensions in millimetres.

1) As well as all its parts quoted in this standard.

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



a) Cable outlet



b) Clamp forms integral part of the cable outlet assembly

Key

- 1 Thread A
- 2 Three equally spaced holes for max. 0,80 mm lockwire (optional)
- 3 Cone for grounding
- 4 Clamp
- 5 Anti-decoupling device
- 6 Knurl
- 7 Hole to accommodate max. 0,80 mm lockwire
- 8 Screw and lockwasher

NOTE 1 For details X and Y, see 4.2.2.

NOTE 2 Coupling nut to be captive on cable outlet body but free to rotate and shall have an anti-decoupling device.

Figure 1

EN 3660-007:2010 (E)

Table 1

Shell size	<i>A</i> Thread Class 2B inches	$\varnothing B$ max. mm	$\varnothing C$ + 0,64 0 mm	<i>D</i> 0 - 1,57 mm	<i>E</i> ^a 0 - 0,56 mm	<i>J</i> $\pm 0,25$ mm	<i>K</i> ^b max. mm	<i>L</i> + 1,02 0 mm	$\varnothing M$ $\pm 0,76$ mm	$\varnothing P$ max. mm	<i>R</i> + 1,02 0 mm	Screw size Class A inches	Mass
08	0.500-20UNF	19,05	12,74	13,72	7,75	6,35	22,38	22,35	6,35	21,41	26,42	6-32UNC	c
10	0.625-24UNEF	22,35	15,88	13,72	7,75	6,35	23,98	23,88	11,12	27,76	27,69	6-32UNC	
12	0.750-20UNEF	25,40	19,05	13,72	7,75	6,35	25,58	25,40	14,28	30,94	29,21	6-32UNC	
14	0.875-20UNEF	28,70	22,23	13,72	7,75	6,35	25,58	26,67	15,88	32,54	30,48	6-32UNC	
16	1.000-20UNEF	31,75	25,40	13,72	7,75	9,52	25,58	28,19	19,05	38,10	31,75	6-32UNC	
18	1.063-18UNEF	33,53	27,00	13,72	7,75	9,52	25,58	29,21	19,05	38,10	33,02	8-32UNC	
20	1.188-18UNEF	36,58	30,18	13,72	7,75	9,52	27,94	30,73	23,83	43,66	34,54	8-32UNC	
22	1.313-18UNEF	39,88	33,35	13,72	7,75	9,52	27,94	32,26	23,83	43,66	36,07	8-32UNC	
24	1.438-18UNEF	42,93	36,53	13,72	7,75	9,52	29,59	33,78	31,75	52,38	37,59	8-32UNC	
28	1.750-18UNS	50,80	44,45	17,83	7,75	9,52	29,59	40,89	34,93	58,72	40,64	8-32UNC	

^a *E* dimension is taken when the coupling nut is pulled in forward position.

^b An allowance must be made for the thickness of the screen used.

^c To be confirmed by manufacturers.

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4.2 Interface dimensions

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4.2.1 Associated connection

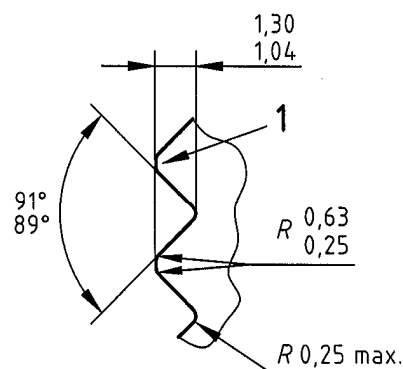
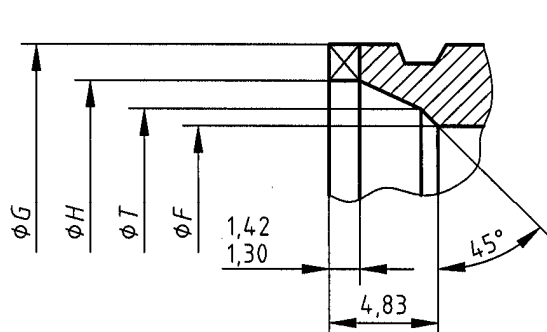
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See EN 3660-002.

4.2.2 Modified AS85049 interface

See Figure 2, Figure 3 and Table 2.

All dimensions in millimetres.



Key

1 Number of teeth (see Table 2)

NOTE Valley of start tooth to be at vertical centre line of accessory at position shown:

Within $\pm 3^\circ$ for shell sizes 08-12;

Within $\pm 2^\circ$ for shell sizes 14-18;

Within $\pm 1^\circ$ for shell sizes 20 and larger.

Figure 2 — Detail X

Figure 3 — Detail Y

Table 2
Dimensions in millimetres

Shell size	ϕF 0 - 0,25	ϕG Ref.	ϕH + 0,13 0	ϕT + 0,18 0	N Number of teeth
08	6,86	11,10	9,17	6,68	12
10	9,53	14,53	11,10	9,35	15
12	12,80	17,45	14,83	12,62	21
14	14,86	20,62	17,22	15,98	24
16	17,93	23,80	20,55	17,73	30
18	20,02	25,20	22,48	21,46	33
20	23,22	28,37	25,53	25,02	36
22	26,39	31,55	29,01	27,61	39
24	29,31	34,72	32,46	31,62	42
28	35,28	42,75	38,91	37,97	54