

SLOVENSKI STANDARD

SIST EN 3660-020:2009

01-december-2009

Aeronavtika - Dodatki za okrogle in pravokotne električne in optične konektorje - 020. del: Kabelska spojka, tip A, ravna, netesnjena, samozapiralna, z razbremenilno sponko za EN 3645 - Standard za proizvod

Aerospace series - Cable outlet accessories for circular and rectangular electrical and optical connectors - Part 020: Cable outlet, style A, straight, unsealed, self-locking with clamp strain relief for EN 3645 - Product standard

Luft- und Raumfahrt - Endgehäuse für elektrische und optische Rund und Rechteck steckverbinder - Teil 020: Endgehäuse, Bauform A, gerade Ausführung, selbstsichernd, nicht abgedichtet, mit Zugentlastungsklemme für EN 3645 - Produktnorm

Serie spatiale - Accessoires arriere pour connecteurs circulaires et rectangulaires electriques et optiques - Partie 020: Raccord droit, type A, non etanche, auto-freine avec brides serre-cables pour EN 3645 - Norme de produit

Ta slovenski standard je istoveten z: EN 3660-020:2009

ICS:

49.060

Letalska in vesoljska
električna oprema in sistemi

Aerospace electric
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SIST EN 3660-020:2009

en

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EUROPEAN STANDARD

EN 3660-020

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2009

ICS 49.060

English Version

Aerospace series - Cable outlet accessories for circular and rectangular electrical and optical connectors - Part 020: Cable outlet, style A, straight, unsealed, self-locking with clamp strain relief for EN 3645 - Product standard

Série aérospatiale - Accessoires arrière pour connecteurs circulaires et rectangulaires électriques et optiques - Partie 020: Raccord droit, type A, non étanche, auto-freiné avec brides serre-câbles pour EN 3645 - Norme de produit

Luft- und Raumfahrt - Endgehäuse für elektrische und optische Rund und Rechteck steckverbinder - Teil 020: Endgehäuse, Bauform A, gerade Ausführung, selbstsichernd, nicht abgedichtet, mit Zugentlastungsklemme für EN 3645 - Produktnorm

This European Standard was approved by CEN on 28 June 2009.

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Foreword

This document (EN 3660-020:2009) 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 March 2010, and conflicting national standards shall be withdrawn at the latest by March 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 3660-020:2009 (E)**1 Scope**

This product standard defines a range of cable outlets, style A, straight, unsealed, self-locking, 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

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

EN 3645 (series), *Aerospace series — Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous*

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 3660-037, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 037: Bushing strip, elastomer, for cable outlet, style Z — Product standard*

SAE AS85049, *Connector accessories, electrical general specification for*¹⁾

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 mass**

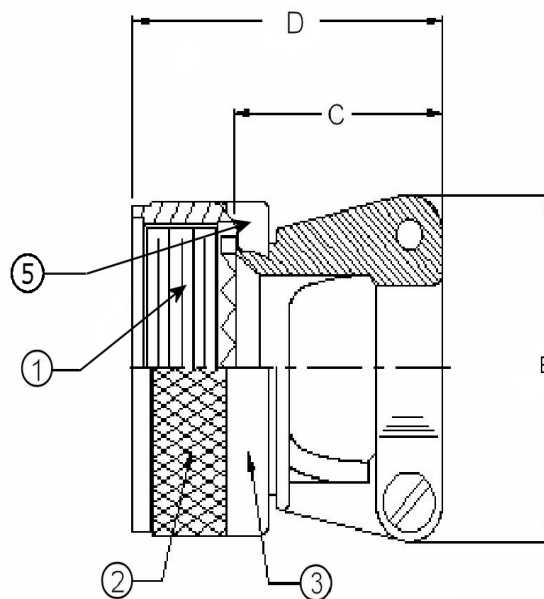
For dimensions and mass, see Figure 1 and Table 1.

For interface dimensions, see 4.2.

* And all parts quoted in this standard.

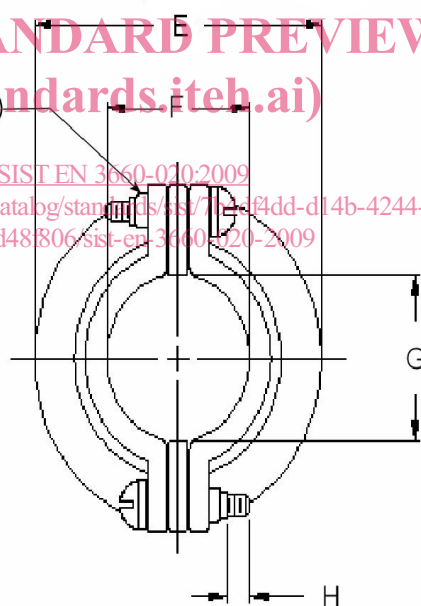
1) Published by: Society of Automotive Engineers, Inc. (SAE), 400 Commonwealth Drive, Warrendale, PA 15096-0001.

Dimensions are in millimetres



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Key

- 1 A Thread
- 2 Knurled, manufacturers option
- 3 Marking, manufacturers option, see Clause 6.
- 4 Captive self-locking nut
- 5 Self-locking mechanism

NOTE Coupling nut to be captive on cable outlet body but rotatable.

Figure 1

EN 3660-020:2009 (E)

Table 1

Dimensions in millimetres

Shell size	A Thread	B max.	C ^a		D Overall length max.	Ø E max.	F ^b ± 0,8 max.	G min.	H Screw extension		Screw size Class 2A inches	Mass. max. g Classes N and W Class K	
			min.	max.					min.	max.			
09	M12 X 1-6H	22,4	12,9	19,6	26,7	21,79	5,56	5,6	1,52	6,35	6-32UNC	18,0	34,0
11	M15 X 1-6H	23,9	16,2	22,6	29,7	24,99	6,71	6,9			6-32UNC	18,5	35,0
13	M18 X 1-6H	28,4	19,3	25,7	32,8	29,39	8,74	8,9			6-32UNC	21,5	40,0
15	M22 X 1-6H	30,2	19,3	27,5	32,8	32,49	11,68	11,9			6-32UNC	23,0	43,5
17	M25 X 1-6H	36,6	22,4	28,7	35,8	35,71	13,84	14,0			6-32UNC	26,0	48,5
19	M28 X 1-6H	39,6	28,7	35,1	42,2	38,51	15,62	15,7			8-32UNC	27,0	50,0
21	M31 X 1-6H	42,9	31,9	38,4	45,5	41,71	17,73	17,8			8-32UNC	27,5	52,5
23	M34 X 1-6H	44,5	35,1	41,4	48,5	44,91	19,81	19,8			8-32UNC	31,0	85,0
25	M37 X 1-6H	47,8	38,4	44,7	51,8	47,47	21,59	21,6			8-32UNC	33,0	61,5
^a C dimension is measured from the bottom of the accessory teeth to the end of the cable outlet.													
^b F cable entry is measured with saddle bars closed and bottomed on clamp ears.													

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4.2 Component parts

A bushing strip, see EN 3660-037, should be used to increase cable diameter to ensure proper function of the cable outlet clamp. Alternatively an appropriate elastomeric tape, as authorized by the OEM, may be used.

4.3 Interface dimensions

4.3.1 Associated connection

See EN 3660-002.

4.3.2 AS85049 Interface

See Figure 2 and Table 2.

Dimensions in millimetres

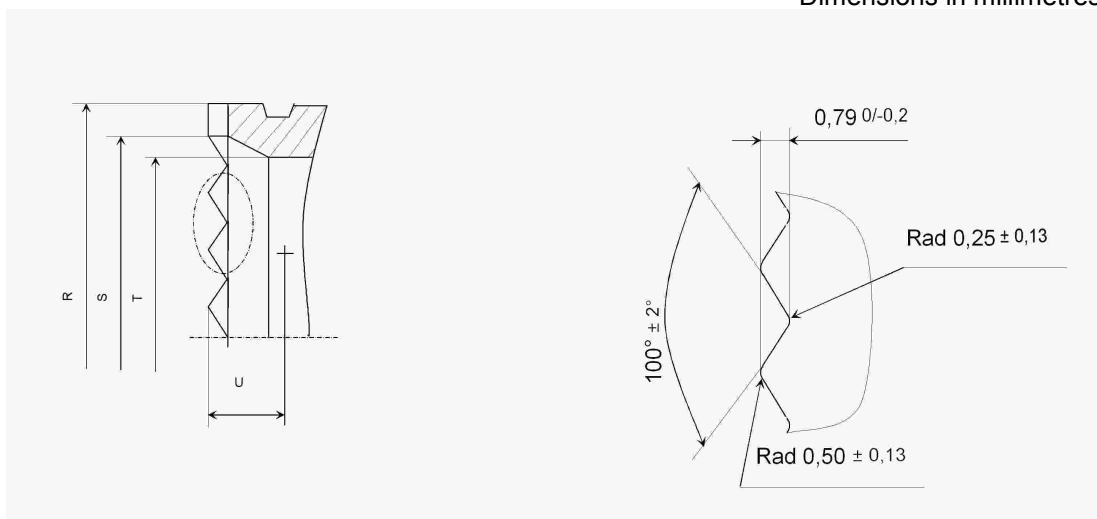


Figure 2

Table 2

Dimensions in millimetres

Shell size	R Ref.	S min.	T min.	T^a min.	N Number of teeth
09	10,57	7,50	6,70	2,90	12
11	13,56	10,80	9,90	2,90	16
13	16,58	13,80	12,80	2,90	20
15	20,57	16,90	16,00	2,90	24
17	23,57	20,10	19,20	2,90	28
19	26,57	22,80	21,40	2,90	32
21	29,57	26,00	24,60	2,90	36
23	32,56	29,10	27,70	2,90	40
25	35,56	32,30	30,90	1,70	44

^a Minimum penetration of T diameter.

4.4 Material and finish

Material/Finish	Class N	:	Aluminium/Electroless nickel plated
Material/Finish	Class W	:	Aluminium/Olive drab cadmium plated
Material/Finish	Class K	:	Stainless steel/Passivated
Hardware: Screws, lock nuts		:	Stainless steel/Passivated, silver plate optional