

SLOVENSKI STANDARD

SIST EN 3660-027:2009

01-maj-2009

Aeronavtika - Dodatki za okrogle in pravokotne električ ne in optič ne konektorje - 027. del: Kabelska spojka, tip A, 45°, netesnjena, z drgalom za spojko za EN 3646 - Standard za proizvod

Aerospace series - Cable outlet accessories for circular and rectangular electrical and optical connectors - Part 027: Cable outlet, style A, 45°, unsealed, with cable tie strain relief for EN 3646 - Product standard

Luft- und Raumfahrt - Endgehäuse für elektrische und optische Rund- und Rechtecksteckverbinder - Teil 027: Endgehäuse, Bauform A, 45°, nicht abgedichtet, mit Arm für Kabelbinder für EN 3646 - Produktnorm

Série aérospatiale - Accessoires arrière pour connecteurs circulaires et rectangulaires électriques et optiques - Partie 027: Raccord, type A, coudé 45°, non étanche, avec tenue du câble par frettage pour EN 3646 - Norme de produit

Ta slovenski standard je istoveten z: EN 3660-027:2009

ICS:

49.060

Letalska in vesoljska
električ na oprema in sistemi

Aerospace electric
equipment and systems

SIST EN 3660-027:2009

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 3660-027

February 2009

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English Version

Aerospace series - Cable outlet accessories for circular and rectangular electrical and optical connectors - Part 027: Cable outlet, style A, 45°, unsealed, with cable tie strain relief for EN 3646 - Product standard

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This European Standard was approved by CEN on 6 September 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 3660-027:2009](https://standards.iteh.ai/catalog/standards/sist/4a243ad2-181d-4d36-85a7-3703a7701c1a/en-3660-027:2009)

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Foreword

This document (EN 3660-027:2009) 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.

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 3660-027:2009 (E)**1 Scope**

This product standard defines a range of cable outlets, 45°, style A, for use under the following conditions:

Associated electrical connector(s) : 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 2591-100*, *Aerospace series — Elements of electrical and optical connection — Test methods — 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: Component parts, spacer pad*¹⁾

3 Terms and definitions

<https://standards.iteh.ai/catalog/standards/sist/4a243ad2-181d-4d36-85a7-3703617b720c/sist-en-3660-027-2009>

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

4 Characteristics**4.1 Dimensions and masses**

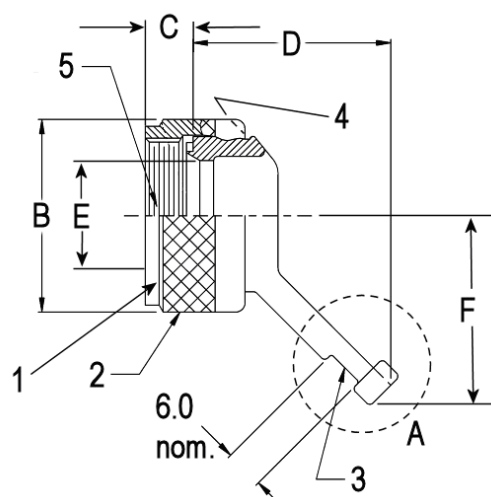
For dimensions and masses, see Figure 1 and Table 1.

For interface dimensions, see 4.3.

All dimensions are in millimetres.

* All parts quoted in Table 4.

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



Detail A

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Key

- 1 Area for marking (see Clause 6)
- 2 Knurled, manufactures option
- 3 Area for cable tie or lacing cord
- 4 3 off wire lock holes equi-spaced for 0,8 mm max. diameter wire
- 5 A-Thread (see Table 1)

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Figure 1**Table 1**

Shell size	A Thread Class 2B Inches	B max. mm	C ^a 0 - 0,56 mm	D max. mm	E ± 0,8 mm	F max. mm	Mass without spacer pad Classes A, N and W max. g
08	0.500-20UNF	15,7	7,75	27,1	6,35	18,6	4,9
10	0.625-24UNEF	18,6	7,75	27,1	9,02	20,1	6,0
12	0.750-20UNEF	21,8	7,75	27,1	12,76	21,7	6,9
14	0.875-20UNEF	25,0	7,75	31,1	14,35	27,8	8,4
16	1.000-18UNEF	28,2	7,75	31,1	17,61	29,4	10,5
18	1.063-18UNEF	30,9	7,75	31,1	19,61	31,0	13,0
20	1.188-18UNEF	34,2	7,75	31,1	22,69	31,8	17,1
22	1.313-18UNEF	37,3	7,75	31,1	25,71	34,1	18,0
24	1.438-18UNEF	40,5	7,75	31,1	28,94	35,3	18,8

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

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4.2 Component parts

Spacer pad, see EN 3660-036.

4.3 Interface dimensions

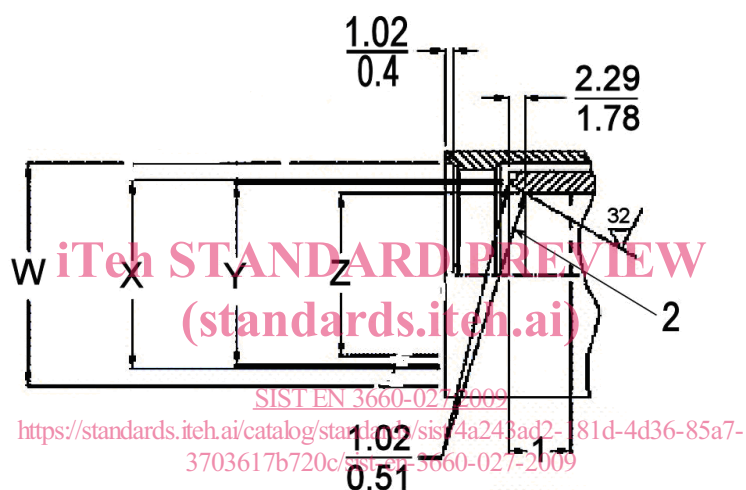
4.3.1 Associated connectors

See EN 3660-002.

4.3.2 Interface

See Figures 2 and 3 and Table 2.

All dimensions are in millimetres.



Key

- 1 4,95 mm min. penetration of Z diameter measured from front of teeth
- 2 N number of teeth, see Table 2

Figure 2

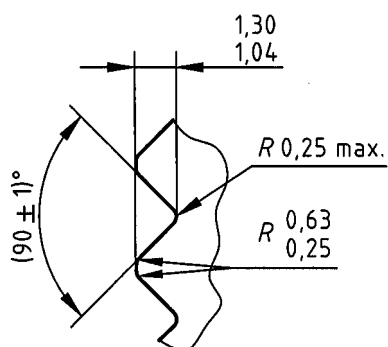


Figure 3

Table 2

Shell size	W + 0,64 0 mm	X 0 – 0,38 mm	Y + 0,38 0 mm	Z 0 – 0,25 mm	N Number of teeth
08	12,70	9,14	7,59	6,86	12
10	15,88	12,55	11,00	9,53	15
12	19,05	15,49	13,94	12,98	21
14	22,23	18,67	17,12	14,86	24
16	25,40	21,84	20,29	18,03	30
18	26,97	23,27	22,07	20,04	33
20	30,18	26,44	25,25	23,22	36
22	33,32	29,62	28,42	26,39	39
24	36,53	32,79	31,60	29,31	42

4.4 Material and finish

Cable outlet: Material/Finish Class A : Aluminium/black anodised
 Material/Finish Class N : Aluminium/electroless nickel plated
 Material/Finish Class W : Aluminium/olive drab cadmium plated

4.5 Assembly torque

These torque values are intended for installation use only. See Table 3.

Table 3

Shell size	Torque Nm $\pm 0,5$
08	4,5
10	4,5
12	4,5
14	4,5
16	4,5
18	4,5
20	9,0
22	9,0
24	9,0

4.6 Coupling thread strength torque

These torque values are for test purposes, see EN 2591-420 and Table 4.