
Aerospace — Eye-ends, in corrosion-resistant steel, swaged on aircraft control wire rope — Dimensions and loads

Aéronautique et espace — Embouts à œil, en acier résistant à la corrosion, à sertir sur câble de commande d'aéronefs — Dimensions et charges

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Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.ch
Web www.iso.ch

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 9737 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 12, *Mechanical system parts*.

Annex A forms a normative part of this International Standard.

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Aerospace — Eye-ends, in corrosion-resistant steel, swaged on aircraft control wire rope — Dimensions and loads

1 Scope

This International Standard specifies the characteristics of eye-ends in corrosion-resistant steel swaged on aircraft control wire rope.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 2020-1:1997, *Aerospace — Preformed flexible steel wire rope for aircraft controls — Part 1: Dimensions and loads.*

ISO 8074:1985, *Aerospace — Surface treatment of austenitic stainless steel parts.*

ISO 10955:1999, *Aerospace — End fittings and turnbuckles for aircraft control wire rope — Technical specification.*

ISO 13715:2000, *Technical drawings — Edges of undefined shape — Vocabulary and indication on drawings.*

EN 2465:—¹⁾, *Aerospace series — Steel FE-PA11 — Softened — Bars $D_e \leq 100$ mm.*²⁾

SAE AMS 2431/6A, *Peening Media, Glass Shot.*

SAE AMS 5639G, *Steel, Corrosion Resistant, Bars, Wire, Forgings, Tubing and Rings, 19Cr 10Ni, Solution Heat Treated.*

SAE AMS 5641F, *Steel, Corrosion Resistant, Bars, Wire, and Forgings, 18.5Cr 10Ni 0.22Se Free-Machining; Swaging or Upsetting, Solution Heat Treated.*

3 Configuration, dimensions, loads and masses

Configuration, dimensions, loads and masses shall be in accordance with Figure 1 and Table 1.

4 Material

Corrosion-resistant steel (in accordance with annex A).

¹⁾ To be published.

²⁾ AECMA.

Table 1

Dimensions in millimetres

Wire rope		D_1^b	D_2	D_3	D_4	D_5	D_6	E	H	L_1	L_2	L_3	L_4	R	T	Mass g/piece ≈	Minimum breaking load ^a kN
Code	Nominal diameter ^a																
		+0,6 -0,25	H8	0 -0,12	+0,12 0	+0,25 0	0 -0,15	h11	+0,25 0	± 0,5	± 0,5	± 0,5	+1 0	+1 0			
16	1,6	10	5	4,1	1,9	2,3	3,5	2,5	1	42	11	13	26	3	0,04	4,7	2,15
24	2,4	12		5,6	2,8	3,0	4,8	3		52	15,5	18	32		0,05	9,7	4,45
32	3,2	14		6,4	3,6	3,9	5,6	5		61	16	19	39	5	0,08	17,6	8,9
40	4	17	6	7,5	4,4	4,8	6,4	6	69	17,5	21	45	27,7			12,45	
48	4,8	20	8	9,1	5,2	5,6	8	6,5	1,5	77	18,5	23	51	6	0,10	41,4	18,6
56	5,6	23		10,9	6	6,5	9,5	7,5		85	20	25	57			8	67,1
64	6,4	25	10	12,6	6,8	7,4	11	8		96	23,5	29	64	93,2		31,2	

^a In accordance with ISO 2020-1.

^b A fault in the shape of the spherical surface of radius $D_1/2$ is permitted within the limits of the limit deviation value for D_1 .

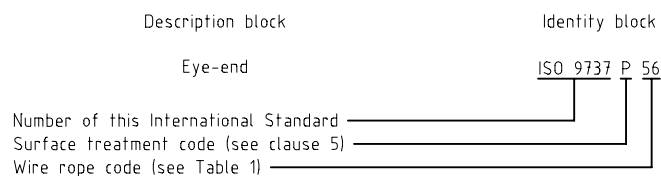
5 Surface treatment

Passivation (code P) in accordance with ISO 8074 or peening (code G) (in accordance with annex A).

6 Designation

Each eye-end in accordance with this International Standard shall be designated as shown in the following example.

EXAMPLE



7 Marking

The marking position shall be in accordance with Figure 1.

In addition to the manufacturer's own marking, each end-fitting in accordance with this International Standard shall be marked using the identity block specified in clause 6.

The marking method is at the manufacturer's option.

8 Technical specification

In accordance with ISO 10955.

Annex A (normative)

Correspondence between national standards

This annex establishes a correspondence between different materials and surface treatment standards from certain user countries. Other member bodies are invited to declare their materials and surface treatment standards in this annex.

The materials and processes cited in Tables A.1 and A.2 are considered to be equivalent, assuming that the requirements for end-fittings specified in this International Standard are respected.

Table A.1 — European standards

Material		Surface treatment	
Family	Standard	Nature	Standard
Corrosion-resistant steel	EN 2465	Passivation	ISO 8074
		Peening	SAE AMS 2431/6A

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Table A.2 — U.S. standards

Material		Surface treatment	
Family	Standard	Nature	Standard
Corrosion-resistant steel	SAE AMS 5639 or SAE AMS 5641	Passivation	ISO 8074
		Peening	SAE AMS 2431/6A

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