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Aerospace — Aircraft control wire rope assemblies — Dimensions and end-fitting combinations

Aéronautique et espace — Câbles de commande d'aéronefs, équipés — Dimensions et combinaison des embouts

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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 9762 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 12, *Mechanical system parts*.

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Aerospace — Aircraft control wire rope assemblies — Dimensions and end-fitting combinations

1 Scope

This International Standard specifies the possible combinations and lengths of preformed flexible steel wire ropes for aircraft controls equipped with two end-fittings swaged on each end of the cable and the corresponding designations.

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.

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

ISO 9762:2000
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ISO 9737:2000, *Aerospace — Eye-ends, in corrosion-resistant steel, swaged on aircraft control wire rope — Dimensions and loads.*

ISO 9748:2000, *Aerospace — Ball-ends, in corrosion-resistant steel, swaged on aircraft control wire rope — Dimensions and loads.*

ISO 9749:2000, *Aerospace — Stud-ends, in corrosion-resistant steel, swaged on aircraft control wire rope — Dimensions and loads.*

ISO 9759:2000, *Aerospace — Fork-ends, in corrosion-resistant steel, swaged on aircraft control wire rope — Dimensions and loads.*

ISO 9760:2000, *Aerospace — Fork-ends, in corrosion-resistant steel, swaged on aircraft control wire rope, for rolling bearings — Dimensions and loads.*

ISO 9763:1999, *Aerospace — Aircraft control wire rope assemblies — Technical specifications.*

3 Dimensions

3.1 End-fittings

End-fittings shall be in accordance with the International Standards given in Table 1.

3.2 Naked wire rope

Naked wire rope shall be in accordance with ISO 2020-1.

3.3 Wire rope

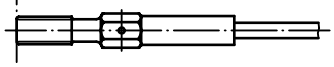
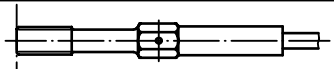
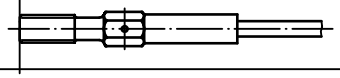
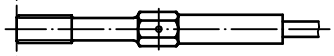
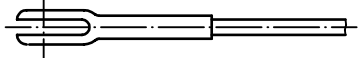
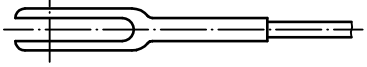
3.3.1 Nominal length L_S

The nominal length L_S is defined in Table 1 and is left to the customer.

3.3.2 Limit deviations on nominal length L_S

The limit deviations on nominal length L_S are specified in Table 2.

Table 1 — Wire rope end-fitting combination codes

Wire rope equipped with two end-fittings according to references			ISO 9737	ISO 9748	ISO 9749 R__S[a]	ISO 9749 R__L[a]	ISO 9749 L__S[a]	ISO 9749 L__L[a]	ISO 9759	ISO 9760
ISO 9737			AA	BA	CA	DA	EA	FA	GA	HA
ISO 9748			BA	BB	CB	DB	EB	FB	GB	HB
ISO 9749	R__S[a]		CA	CB	CC	DC	EC	FC	GC	HC
	R__L[a]		DA	DB	DC	DD	ED	FD	GD	HD
	L__S[a]		EA	EB	EC	ED	EE	FE	GE	HE
	L__L[a]		FA	FB	FC	FD	FE	FF	GF	HF
ISO 9759			GA	GB	GC	GD	GE	GF	GG	HG
ISO 9760			HA	HB	HC	HD	HE	HF	HG	HH

[a] Thread direction code and length code in accordance with ISO 9749.

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Table 2 — Limit deviations on nominal length L_s

L_s m	Limit deviations mm
$L_s \leqslant 1$	± 2
$1 < L_s \leqslant 6$	± 3
$6 < L_s \leqslant 12$	± 5
$12 < L_s \leqslant 18$	± 7
$18 < L_s \leqslant 27$	± 10
$L_s > 27$	± 13

4 Material and surface treatment

4.1 End-fittings

The material and surface treatment of end-fittings shall be in accordance with product standards cited in Table 1.

4.2 Naked wire rope

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The material and surface treatment of naked wire rope shall be in accordance with ISO 2020-1.

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5 Corresponding combinations and codes

5.1 Wire rope end-fittings

Combination codes for wire rope end-fittings are given in Table 1.

5.2 Nominal diameters according to wire rope material

Codes for wire rope nominal diameters by material are given in Table 3.

6 Designation

Each control wire rope assembly in accordance with this International Standard shall be designated as shown in the following example.

EXAMPLE

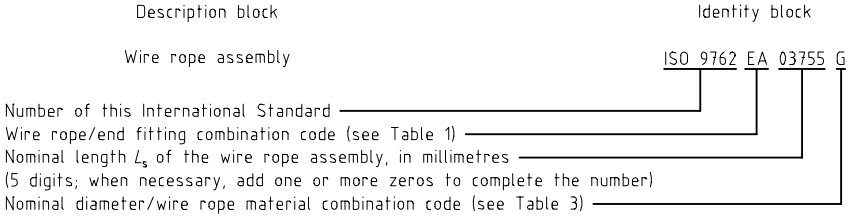

Table 3 — Codes for wire rope nominal diameters by material

Nominal diameter of wire rope mm	Construction	Codes	
		Carbon steel wire rope[a]	Stainless steel wire rope[a]
1,6	7 × 7	A	P
2,4		B	Q
	7 × 19	C	R
3,2		D	S
4,0		E	T
4,8		F	U
5,6		G	V
6,4		H	W

[a] In accordance with ISO 2020-1.

7 Technical specification

In accordance with ISO 9763.

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