SLOVENSKI STANDARD
SIST EN 2357:2001

01-januar-2001

Aerospace series - Stud-ends in corrosion resisting steel swaged on type, control cable - Dimensions and loads

Aerospace series - Stud-ends in corrosion resisting steel swaged on type, control cable - Dimensions and loads

Luft- und Raumfahrt - Seilschuhe mit Gewinde aus korrosionsbeständigem Stahl zum Aufquetschen auf Steuerseile - Maße und Belastungen

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Série aérospatiale - Embouts tendeurs en acier résistant a la corrosion a sertir sur câbles de commandes - Dimensions et charges

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Ta slovenski standard je istoveten z: **EN 2357:1988**

ICS:

49.035	Sestavni deli za letalsko in vesoljsko gradnjo	Components for aerospace construction

SIST EN 2357:2001 **en**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 2357

September 1988

UDC : 629.7.05 : 621.854 : 621.85.052.004.1

Key words : Aircraft industry, flight control, flexible cable, cable-end, crimping end piece, cable tensioner, dimensions, breaking loads.

English version

Aerospace series Stud-ends in corrosion resisting steel swaged on type, control cable Dimensions and loads

Série aérospatiale
Embouts tendeurs
en acier résistant à la corrosion
à sertir sur câbles de commandes
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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat : Rue Bréderode 2, B—1000 Bruxelles

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Ref. Nr EN 2357 : 1988 E

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Brief History

This draft European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

After enquiries and votes carried out in accordance with the rules of this Association, this draft has successively received the approval of the National Associations and the Official Services of the member countries of AECMA, prior to its presentation to CEN.

In accordance with the Common CEN/CENELEC Rules, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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1 Scope and field of application

This standard specifies the characteristics of threaded stud-ends in corrosion resisting steel, suitable for swaging onto aircraft control cables.

2 References

ISO 2020, Aerospace - Mechanical system parts - Preformed flexible steel wire rope for aircraft controls - Technical specification

ISO 5855/1, Aerospace construction - MJ threads - Part 1 : Basic profile

ISO 5855/2, Aerospace construction - MJ threads - Part 2 : Dimensions for bolts and nuts

EN 2465, Steel FE-PA11 - Softened - Bars D_e < 100 mm - Aerospace series

EN 2516, Aerospace series - Passivation of corrosion resistant steels 1)

EN 2569, Aerospace series - Control cable fittings and turnbarrels - Technical specification 1).

3 Required characteristics

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3.1 Dimensions - Tolerances - Loads - Mass

The configuration shall correspond to the figure and the dimensions shall conform to the values given in the figure and the table.

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These end fittings will preferably be manufactured from hexagonal bar (form 1), but where bars of hexagonal cross section are difficult to obtain, they may be produced with milled flats (form 2).

3.2 Surface roughness

See figure.

3.3 Material

Steel EN 2465.

3.4 Surface treatment

Passivation EN 2516.

1) In preparation

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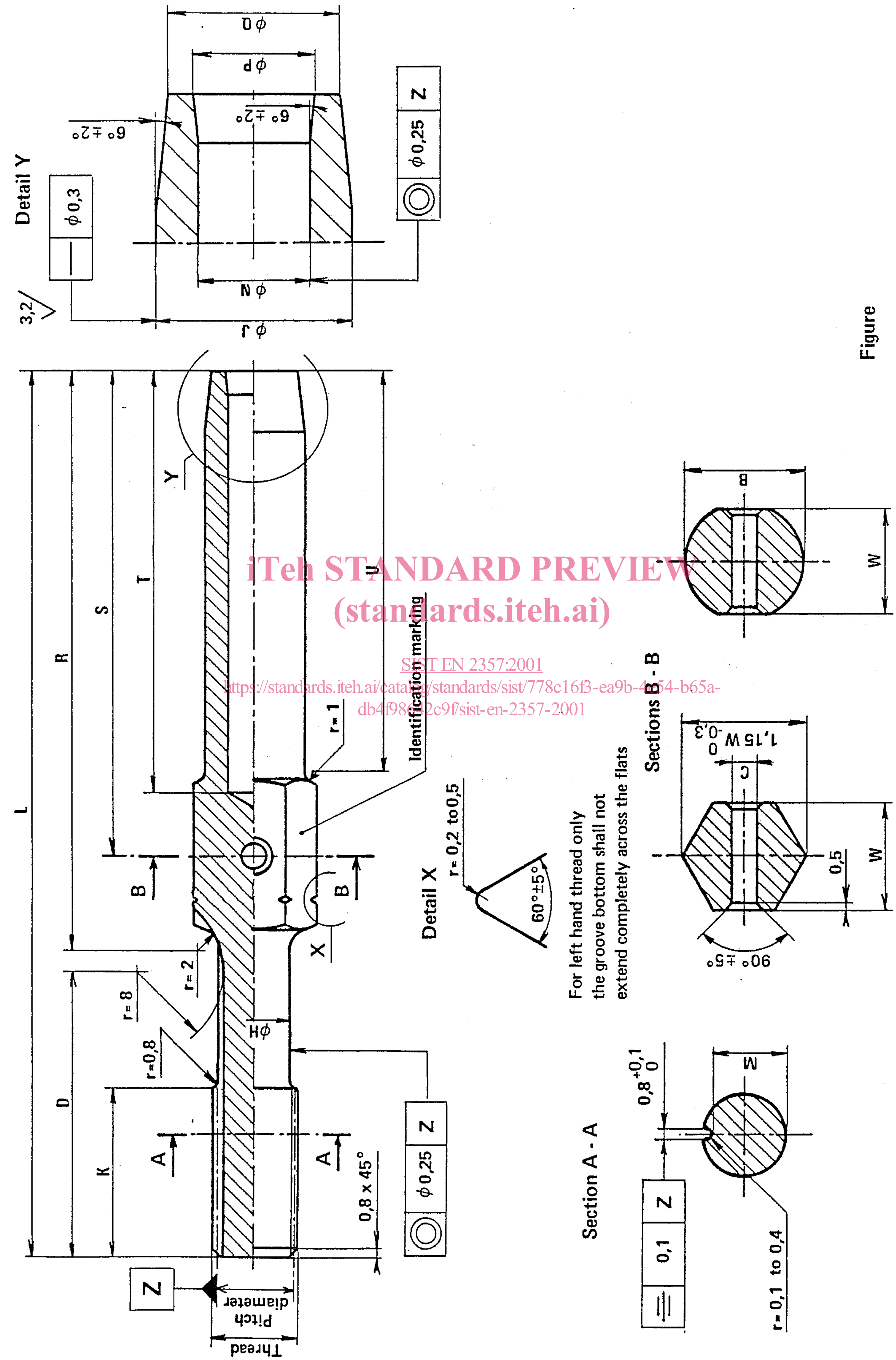

Figure

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Table

Dimensions in millimetres

Cable Code	Cable Nom. diam.	Thread 1) Designation	B min.	B max.	C H 13	D ±0,5	H	H tol.	J 0 −0,12	K ±1	L Code	L Dim. ±0,5	M min.	M max.	N +0,12 0	P +0,25 0	Q	Q tol.	R ±0,5	S +0,5 0	T +0,8 0	U	U tol.	W ±0,5	Mass ≃ g	Minimum breaking load kN 2)
16	1,6	MJ 4 x 0,7 4h6h	5,5	6	1,5	27,5	2,9	0 −0,1	4,06	8	S	61	3,26	3,36	1,98	2,3	3,50	0 −0,12	32	24	21	20	+1 0	5	4,7	2,15
24	2,4	MJ 5 x 0,8 4h6h	7,7	8,5		27	3,8	0 −0,15	5,54	10	S	66	4,23	4,33	2,77	3	4,83		37	29	25	23		7	9,6	4,45
						40					L	79													10,7	
32	3,2	MJ 6 x 1,0 4h6h				27,5	4,6		6,35	12	S	72	5,15	5,26	3,58	3,9	5,56		43	35	31	29			12,7	8,90
						49,5					L	94													15,6	
40	4	MJ 7 x 1,0 4h6h	8,8	9,5	2,5	27,5	5,6		7,54	14	S	80	6,15	6,26	4,37	4,8	6,35		51	42	37	35	+1,5 0	8	19,6	12,45
						49,5					L	102													24	
48	4,8	MJ 8 x 1,0 4h6h	11,1	12		27	6,6		9,12	16	S	84	7,15	7,26	5,15	5,7	7,95		55	46	40	38		10	30	18,60
56	5,6	MJ10 x 1,25 4h6h	13,6	14,5		49	7,8		10,84	20	S	111	8,92	9,10	5,94	6,6	9,52	0 −0,18	60	50	44	42		12	56,2	24,90
64	6,4	MJ12 x 1,25 4h6h	14,5	15,5			9,8		12,55	24	S	116	10,92	11,10	6,73	7,4	11,12		65	54	47	45		13	82	31,20

1) Conforming to ISO 5855, parts 1 and 2, rolled.
2) Equal to the one of the cable used according to ISO 2020.

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4 Designation

Each threaded stud-end for swaging on to cables shall only be designated as in the following example :

Description block	Identity block
CABLE STUD-END	EN2357L40S

Number of EN standard

L = Thread direction code

40 = Cable code, see table

S = Length code, see table

Where the following codes are applied for the thread direction :

R : right-hand thread

L : left-hand thread

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Note : If necessary, originator code S9005 may be introduced between the description block and identity block.

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5 Marking

In addition to the manufacturer's own marking, each threaded stud-end for swaging onto cables shall be marked (see figure) using the identity block as defined in clause 4 of this standard.

The marking method is to the manufacturer's option.

6 Technical specification

The threaded stud-ends for swaging onto cables manufactured according to this standard shall conform with the requirements of EN 2569.