



SLOVENSKI STANDARD
SIST EN 2267-002:2006
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Aerospace series - Cables, electrical, for general purpose - Operating temperatures between - 55 °C and 260 °C - Part 002: General

Luft- und Raumfahrt - Leitungen, elektrisch, für allgemeine Verwendung - Betriebstemperaturen zwischen - 55 °C und 260 °C - Teil 002: Allgemeines

STANDARD PREVIEW

Série aérospatiale - Câbles, électriques, d'usage général - températures de fonctionnement comprises entre - 55 °C et 260 °C - Partie 002 : Généralités

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49.060

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ICS 49.060

English Version

Aerospace series - Cables, electrical, for general purpose -
Operating temperatures between - 55 °C and 260 °C - Part 002:
General

Série aérospatiale - Câbles, électriques, d'usage général,
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Verwendung - Betriebstemperaturen zwischen - 55 °C und
260 °C - Teil 002: Allgemeines

This European Standard was approved by CEN on 26 September 2005.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This European Standard (EN 2267-002:2005) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-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 AECMA, 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 May 2006, and conflicting national standards shall be withdrawn at the latest by May 2006.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This standard specifies the list of product standards and common characteristics of electrical cables for use in the on-board electrical systems of aircraft at operating temperatures between -55 °C and 260 °C (except otherwise specified in product standards).

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 2083, *Aerospace series — Copper or copper alloy conductors for electrical cables — Product standard.*

EN 2084, *Aerospace series — Cables, electric, single-core, general purpose, with conductors in copper or copper alloy — Technical specification.*

EN 2235, *Aerospace series — Single and multicore electrical cables, screened and jacketed — Technical specification.*¹⁾

EN 2267-003, *Aerospace series — Cables, electrical, for general purpose — Operating temperatures between -55 °C and 260 °C — Part 003: Ink jet printable — Product standard.*

EN 2267-004, *Aerospace series — Cables, electrical, for general purpose — Operating temperatures between -55 °C and 260 °C — Part 004: CO₂ laser printable — Product standard.*¹⁾

EN 2267-005, *Aerospace series — Cables, electrical, for general purpose — Operating temperatures between -55 °C and 260 °C — Part 005: UV laser printable — Product standard.*

EN 2267-006, *Aerospace series — Cables, electrical, for general purpose — Operating temperatures between -55 °C and 260 °C — Part 006: YAG X3 laser printable — Product standard.*¹⁾

EN 2267-007, *Aerospace series — Cables, electrical, for general purpose — Operating temperatures between -55 °C and 260 °C — Part 007: DMA family, single ink-jet printable and multicore assembly — Product standard.*

EN 2267-008, *Aerospace series — Cables, electrical, for general purpose — Operating temperatures between -55 °C and 260 °C — Part 008: DM family, single UV laser printable and multicore assembly — Product standard.*

EN 2267-009, *Aerospace series — Cables, electrical, for general purpose — Operating temperatures between -55 °C and 260 °C — Part 009: DRA family, single and multicore assembly — Product standard.*

EN 2267-010, *Aerospace series — Cables, electrical, for general purpose — Operating temperatures between -55 °C and 260 °C — Part 010: DR family, single UV laser printable — Product standard.*

EN 3475-100, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 100: General.*

EN 3838, *Aerospace series — Requirements and tests on user-applied markings on aircraft electrical cables.*¹⁾

TR 6058, *Aerospace series — Cable code identification list.*²⁾

1) Published as AECMA Prestandard at the date of publication of this standard.

2) Published as AECMA Technical Report at the date of publication of this standard.

3 Terms, definitions and symbols

For the purposes of this standard, the terms, definitions and symbols given in EN 3475-100 apply.

4 List of product standards

EN 2267-003, *Aerospace series — Cables, electrical, for general purpose — Operating temperatures between – 55 °C and 260 °C — Part 003: Ink jet printable — Product standard.*

EN 2267-004, *Aerospace series — Cables, electrical, for general purpose — Operating temperatures between – 55 °C and 260 °C — Part 004: CO₂ laser printable — Product standard.*

EN 2267-005, *Aerospace series — Cables, electrical, for general purpose — Operating temperatures between – 55 °C and 260 °C — Part 005: UV laser printable — Product standard.*

EN 2267-006, *Aerospace series — Cables, electrical, for general purpose — Operating temperatures between – 55 °C and 260 °C — Part 006: YAG X3 laser printable — Product standard.*

EN 2267-007, *Aerospace series — Cables, electrical, for general purpose — Operating temperatures between – 55 °C and 260 °C — Part 007: DMA family, single ink-jet printable and multicore assembly — Product standard.*

EN 2267-008, *Aerospace series — Cables, electrical, for general purpose — Operating temperatures between – 55 °C and 260 °C — Part 008: DM family, single UV laser printable and multicore assembly — Product standard.*

EN 2267-009, *Aerospace series — Cables, electrical, for general purpose — Operating temperatures between – 55 °C and 260 °C — Part 009: DRA family, single and multicore assembly — Product standard.*

EN 2267-010, *Aerospace series — Cables, electrical, for general purpose — Operating temperatures between – 55 °C and 260 °C — Part 010: DR family, single UV laser printable — Product standard.*

5 Materials and construction

5.1 Materials

These cable conductors shall be made of copper or copper alloy and nickel-plated according to EN 2083 code D (except otherwise specified in product standards).

5.2 Construction

5.2.1 Number of cores

See Table 1.

Table 1

Number of cores	1	2	3	4	5	6	7	8	9	10
Code	A	B	C	D	E	F	G	H	J	K
Factor for overall dimensions	–	2,00	2,15	2,40	2,70	3,00	3,00	3,30	3,60	4,00

For two cores or more:

- factor for mass: 1,03;
- factor for ohmic resistance: 1,03.

5.2.2 Colour coding of single core cables

See Tables 2 and 3.

Table 2 — Colour code

Code	Colour ^a
A	Red (2)
B	Blue (6)
C	Yellow (4)
D	Green (5)
E	White (9)
F	Black (0)
G	Brown (1)
H	Orange (3)
J	Violet (7)
K	Grey (8)
L	} Not yet allocated
M	
N	
P	See Table 3.
Q	See Table 3.
R	See Table 3.
S	See Table 3.
T	} Not yet allocated
U	
V	
W	

^a For information: international colour code

Table 3 — Colours for P, Q, R and S codes

Code for core size	Colours			
	P	Q	R	S
001	White	Pink	White	Light yellow
002	White	White	Light blue	White
004	Light green	Light green	White	Light green
006	White	Pink	Light blue	White
010	White	White	White	White
012	White	Light green	Light blue	White
020	White	Pink	White	White
030	White	White	White	White
050	White	Light green	White	White
051	White	Light green	White	White
090	White	–	White	White
140	White	–	White	White
220	White	–	White	White
340	White	–	White	White

5.2.3 Colour coding of unscreened, multicore cables

See Tables 4 to 6.

Table 4 — Code P

Number of cores in cables	Colours											
	1	2	3	4	5	6	7	8	9	10	11	
2	Red	Blue										
3	Red	Blue	Yellow									
4	Red	Blue	Yellow	Green								
5	Red	Blue	Yellow	Green	White							
6	Red	Blue	Yellow	Green	White	Black						
7	Red	Blue	Yellow	Green	White	Black	Brown					
8	Red	Blue	Yellow	Green	White	Black	Brown	Orange				
9	Red	Blue	Yellow	Green	White	Black	Brown	Orange	Violet			
10	Red	Blue	Yellow	Green	White	Black	Brown	Orange	Violet	Grey		

NOTE Jacket (if requested): codes 002/006/012 light blue, other codes: white.

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Table 5 — Code Q

Number of cores in cables	Band group configuration	Number of rings	
		Wide	Narrow
1	No ring on the first core	0	0
2	■ ■ ■ ■ ■ ■ ■ ■	0	2
3	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	0	3
4	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	0	4
5	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	0	5
6	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	0	6
7	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	0	7
8	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	1	1
9	■ ■	1	2
10	■ ■	1	3

Marking with colour rings

Basic colour of cores: pink for codes 001/006/020
white for codes 002/010/030
light green for codes 004/012/050/051