SLOVENSKI STANDARD
SIST EN 2267-002:2014

01-februar-2014

Nadomešča:
SIST EN 2267-002:2006

Aeronavtika - Električni kabli za splošno uporabo - Delovne temperature med –55 °C in 260 °C - 002. del: Splošno

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

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

Ta slovenski standard je istoveten z: **EN 2267-002:2012**

ICS:

49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems

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EUROPEAN STANDARD

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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 - Températures de fonctionnement comprises entre - 55 °C et 260 °C - Partie 002: Généralités

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

This European Standard was approved by CEN on 25 February 2012.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (EN 2267-002:2012) 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of an identical text or by endorsement, at the latest by April 2013, and conflicting national standards shall be withdrawn at the latest by April 2013.

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This document supersedes EN 2267-002:2005.

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European 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 documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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*

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: CO_2 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*

1) Published as ASD-STAN Prestandard at the date of publication of this standard (www.asd-stan.org).

EN 2267-011, *Aerospace series — Cables, electrical, for general purpose — Operating temperatures between – 55 °C and 260 °C — Part 011: DZA family, single and multicore assembly for use in low pressure atmosphere — Product standard* [2)]

EN 2267-012, *Aerospace series — Cables, electrical, for general purpose — Operating temperatures between – 55 °C and 260 °C — Part 012: DZ family, single UV laser printable for use in low pressure atmosphere — Product standard* [2)]

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*

EN 4434, *Aerospace series — Copper or copper alloy lightweight conductors for electrical cables — Product standard (Normal and tight tolerances)*

TR 6058, *Aerospace series — Cable code identification list* [3)]

3 Terms, definitions and symbols

For the purposes of this document, 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: CO_2 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*

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

3) Published as ASD-STAN Technical Report at the date of publication of this standard (www.asd-stan.org).

EN 2267-011, *Aerospace series — Cables, electrical, for general purpose — Operating temperatures between – 55 °C and 260 °C — Part 011: DZA family, single and multicore assembly for use in low pressure atmosphere — Product standard*

EN 2267-012, *Aerospace series — Cables, electrical, for general purpose — Operating temperatures between – 55 °C and 260 °C — Part 012: DZ family, single UV laser printable for use in low pressure atmosphere — 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 or EN 4434 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

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	1	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, M, N	Not yet allocated
P	See Table 3.
Q	See Table 3.
R	See Table 3.
S	See Table 3.
T, U, V, W	Not yet allocated

[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