



SLOVENSKI STANDARD SIST EN 4604-002:2010

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Aerospace series - Cable, electrical, for signal transmission - Part 002 : General

Luft- und Raumfahrt - Elektrische Leitungen für Signalübertragungen - Teil 002:
Allgemeines

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Série aérospatiale - Câbles électriques pour transmission de signaux - Partie 002:
Généralités

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Ta slovenski standard je istoveten z: EN 4604-002:2009

ICS:

49.060 Š^c\ æÁ^•[|b\ æ Aerospace electric
^|\ dã} æ] !^ { æ Áã c^ { ã equipment and systems

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 4604-002

September 2009

ICS 49.060

Supersedes EN 4604-002:2006

English Version

**Aerospace series - Cable, electrical, for signal transmission -
Part 002: General**

Série aérospatiale - Câbles électriques pour transmission
de signaux - Partie 002: Généralités

Luft- und Raumfahrt - Elektrische Leitungen für
Signalübertragungen - Teil 002: Allgemeines

This European Standard was approved by CEN on 20 June 2009.

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 CEN Management Centre 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 CEN Management Centre has the same status as the official versions.

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

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Foreword

This document (EN 4604-002:2009) 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 March 2010, and conflicting national standards shall be withdrawn at the latest by March 2010.

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.

This document supersedes EN 4604-002:2006.

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

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EN 4604-002:2009 (E)**1 Scope**

This standard specifies the list of product standards and common characteristics of signal transmission electrical cables for use in the on-board electrical systems of aircraft.

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 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⁾

EN 4604-001, *Aerospace series — Cable, electrical, for signal transmission — Part 001: Technical specification.*

EN 4604-003, *Aerospace series — Cable, electrical, for signal transmission — Part 003: Cable, coaxial 50 ohm, 200 °C, type WZ — Product standard.*

EN 4604-004, *Aerospace series — Cable, electrical, for signal transmission — Part 004: Cable, microcoaxial, high immunity, 50 ohms, 200 °C, type WS — Product standard.*

EN 4604-005, *Aerospace series — Cable, electrical, for signal transmission — Part 005: Cable, coaxial, 75 ohms, 200 °C, type WL — Product standard.* ¹⁾

EN 4604-006, *Aerospace series — Cable, electrical, for signal transmission — Part 006: Cable, coaxial, 50 ohm, 200 °C, type WM — Product standard.*

EN 4604-007, *Aerospace series — Cable, electrical, for signal transmission — Part 007: Cable, coaxial, 50 ohms, 200 °C, type WN — Product standard.*

EN 4604-008, *Aerospace series — Cable, electrical, for signal transmission — Part 008: Cable, coaxial, 50 ohms, 200 °C, type WD — Product standard.*

EN 4604-009, *Aerospace series — Cable, electrical, for signal transmission — Part 009: Cable, coaxial, light weight, 50 ohms, 180 °C, type KW (light WN) — Product standard.*

EN 4604-010, *Aerospace series — Cable, electrical, for signal transmission — Part 010: Cable, coaxial, light weight, 50 ohms, 200 °C, type KX (light WD) — Product standard.*

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

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

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

3 Terms and definitions

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

4 List of product standards

See Table 1.

Table 1

Product reference	Main use	Cable code	Impedance Ω	Attenuation at 1 GHz max. Db per 100 m	External diameter nominal mm	Type of screening	Others
EN 4604-003	up to 3 GHz	WZ	50 ± 2	47	3,60	foil + braid	– 65 °C to 200 °C
EN 4604-004	up to 3 GHz	WS	50 ± 5	140	2,40	2 braids with foil	– 55 °C to 200 °C
EN 4604-005	up to 3 GHz	WL	75 ± 5	102	2,35	2 braids	– 55 °C to 200 °C
EN 4604-006	up to 5 GHz	WM	50 ± 3	40	3,85	foil + braid	– 55 °C to 200 °C
EN 4604-007	up to 6 GHz	WN	50 ± 3	15	8,0	foil + braid	– 55 °C to 200 °C
EN 4604-008	up to 8 GHz	WD	50 ± 2	28,6	7,70	2 braids	– 55 °C to 200 °C
EN 4604-009	up to 6 GHz light weight	KW	50 ± 3	15	7,50	foil + braid	– 65 °C to 180 °C light WN – full CCAL
EN 4604-010	up to 6 GHz light weight	KX	50 ± 2	28,6	5,40	foil + braid	– 65 °C to 200 °C light WD

5 Materials and construction

The composition, dimensions and mass of the cable shall conform to the characteristics and values defined in the technical specification and product standards.

Colour coding: See product standard.

EN 4604-002:2009 (E)**6 Identification and marking**

The identification and marking of cables by the manufacturer shall be in accordance with EN 4604-001.

Colour of the marking: See product standard.

As the designation required for orders is generally too long for use in electrical drawings, a shorter cross designation (without colour information) is given by TR 6058.

EXAMPLE Designation: EN 4604-003 Cross reference WZ

This shorter designation is used for identification and marking as the following example (see Figure 1):

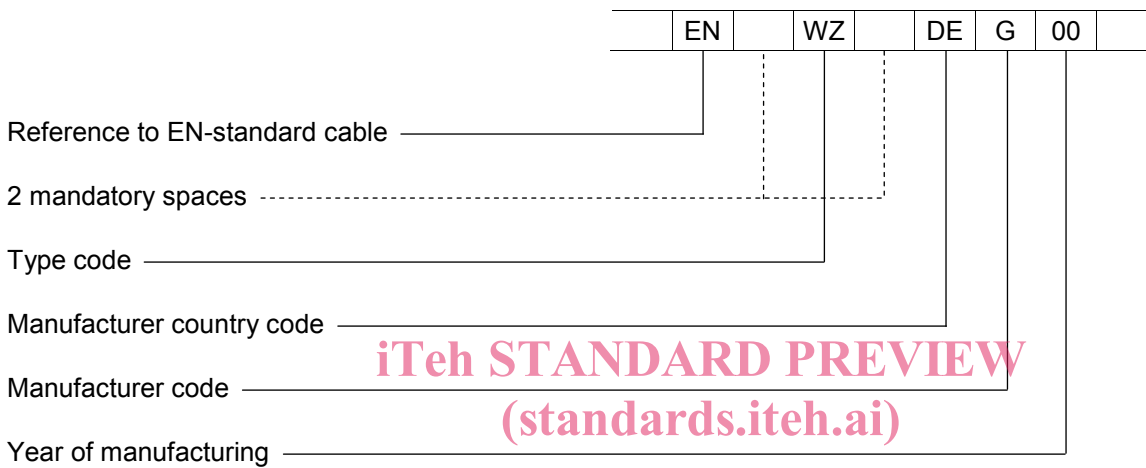


Figure 1

The cables shall be capable of being printed with the user applied markings according to EN 3838 when applicable in the product standard.

7 Technical specification

See EN 4604-001.