

**EN 4604-001:2019**



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**Aerospace series - Cable, electrical, for signal transmission - Part 001: Technical specification**

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**Aerospace series - Cable, electrical, for signal transmission  
 - Part 001: Technical specification**

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Luft- und Raumfahrt - Elektrische Leitungen für  
 Signalübertragungen - Teil 001: Technische  
 Lieferbedingungen

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**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

<b>Contents</b>		Page
<b>European foreword .....</b>		<b>3</b>
<b>1</b>	<b>Scope.....</b>	<b>4</b>
<b>2</b>	<b>Normative references.....</b>	<b>4</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>4</b>
<b>4</b>	<b>Materials and construction of cables .....</b>	<b>4</b>
<b>5</b>	<b>Required characteristics .....</b>	<b>5</b>
<b>6</b>	<b>Test methods .....</b>	<b>5</b>
<b>7</b>	<b>Quality assurance.....</b>	<b>10</b>
<b>8</b>	<b>Identification, marking and colour.....</b>	<b>11</b>
<b>9</b>	<b>Packaging, labelling and delivery length.....</b>	<b>11</b>

## European foreword

This document (EN 4604-001:2019) 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of an identical text or by endorsement, at the latest by December 2019, and conflicting national standards shall be withdrawn at the latest by December 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 4604-001:2009.

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

**EN 4604-001:2019 (E)****1 Scope**

This European Standard specifies the required characteristics, test methods, qualification and acceptance conditions of signal transmission electrical cables.

**2 Normative references**

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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*

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 9133, *Aerospace series — Quality Management Systems — Qualification Procedure for Aerospace Standard Products*

ISO 2574, *Aircraft — Electrical cables — Identification marking*

TR 6058, *Aerospace series — Cable code identification list* <sup>1)</sup>

**3 Terms and definitions**

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

**4 Materials and construction of cables****4.1 General**

The composition, dimensions and mass of the cable shall conform to the characteristics below, as well as the values specified in the product standards.

**4.2 Conductor****4.2.1 Material**

See product standards.

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\* And all parts quoted in Table 1.

1) Published as ASD-STAN Technical Report at the date of publication of this standard by AeroSpace and Defence industries Association of Europe - Standardization ([www.asd-stan.org](http://www.asd-stan.org))