



**NSAI**  
Standards

Irish Standard  
I.S. EN 4604-006:2019

Aerospace series - Cable, electrical, for  
signal transmission - Part 006: Cable,  
coaxial, 50 ohms, 200 °C, type WM -  
Product standard

**I.S. EN 4604-006:2019**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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## National Foreword

I.S. EN 4604-006:2019 is the adopted Irish version of the European Document EN 4604-006:2019, Aerospace series - Cable, electrical, for signal transmission - Part 006: Cable, coaxial, 50 ohms, 200 °C, type WM - Product standard

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EUROPEAN STANDARD

EN 4604-006

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2019

ICS 49.060

Supersedes EN 4604-006:2009

English Version

**Aerospace series - Cable, electrical, for signal transmission  
- Part 006: Cable, coaxial, 50 ohms, 200 °C, type WM -  
Product standard**

Série aérospatiale - Câbles électriques pour  
transmission de signaux - Partie 006 : Câble coaxial, 50  
ohms, 200 °C, type WM - Norme de produit

Luft- und Raumfahrt - Elektrische Leitungen für  
Signalübertragungen - Teil 006: Koaxialkabel, 50 Ohm,  
200 °C, Typ WM - Produktnorm

This European Standard was approved by CEN on 19 August 2019.

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-CENELEC 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-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

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

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## **European foreword**

This document (EN 4604-006:2019) 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 March 2020, and conflicting national standards shall be withdrawn at the latest by March 2020.

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 4604-006:2009

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## EN 4604-006:2019 (E)

### 1 Scope

This document specifies the required characteristics of a coaxial cable, 50  $\Omega$ , type WM, for use in aircraft electrical systems at operating temperature between  $-55\text{ }^{\circ}\text{C}$  and  $200\text{ }^{\circ}\text{C}$  and specially for high frequency up to 5 GHz.

### 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 (all parts), *Aerospace series — Cables, electrical, aircraft use — Test methods*

EN 4604-001, *Aerospace series — Cable, electrical, for signal transmission — Part 001: Technical specification*<sup>1)</sup>

EN 4604-002, *Aerospace series — Cable, electrical, for signal transmission — Part 002: General*

TR 6058, *Aerospace series — Cable code identification list*<sup>2)</sup>

ASTM B298-99, *Standard specification for silver-coated soft or annealed copper wire*<sup>3)</sup>

MIL-PRF-39012, *Performance specification: Connectors, coaxial, radio frequency, general specification for*<sup>4)</sup>

### 3 Terms and definitions

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

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

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

#### 3.1

##### **epsilon ( $\epsilon$ )**

value of dielectric constant

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1) Published as ASD-STAN Prestandard at the date of publication of this standard by AeroSpace and Defence industries Association of Europe — Standardization (ASD-STAN), <http://www.asd-stan.org/>

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

3) Published by: American Society for Testing and Materials (ASTM), 1916 Race Street, Philadelphia, PA 19103, USA, <http://www.astm.org/>.

4) Published by: Department of Defense (DOD), the Pentagon, Washington, D.C. 20301 USA, <https://www.defense.gov/>.



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