



**NSAI**  
Standards

Irish Standard  
I.S. EN 4604-007:2019&AC:2020

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

**I.S. EN 4604-007:2019&AC:2020**

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

EN 4604-007:2019/AC:2020

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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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SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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Údarás um Chaighdeáin Náisiúnta na hÉireann

## National Foreword

I.S. EN 4604-007:2019&AC:2020 is the adopted Irish version of the European Document EN 4604-007:2019, Aerospace series - Cable, electrical, for signal transmission - Part 007: Cable, coaxial, 50 ohms, 200 °C, type WN - Product standard

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

For relationships with other publications refer to the NSAI web store.

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*In line with international standards practice the decimal point is shown as a comma (,) throughout this document.*

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 4604-007:2019/AC**

April 2020

ICS 49.060

English version

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

Série aérospatiale - Câbles électriques pour  
transmission de signaux - Partie 007 : Câble,  
coaxial, 50 ohms, 200 °C, type WN - Norme de  
produit

Luft- und Raumfahrt - Elektrische Leitungen  
für Signalübertragungen - Teil 007:  
Koaxialkabel, 50 Ohm, 200 °C, Typ WN -  
Produktnorm

This corrigendum becomes effective on 22 April 2020 for incorporation in the official English version of the EN.



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

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

**EN 4604-007:2019/AC:2020 (E)**

## **1 Modification to the European foreword**

*Add the following sentence in the European foreword:*

This document supersedes EN 4604-007:2007.

## **2 Modification to Figure 2**

*Modify the key of Figure 2 as follows:*

Key

◆ Attenuation (dB/100 m)

■ P (W)

**EUROPEAN STANDARD**  
**NORME EUROPÉENNE**  
**EUROPÄISCHE NORM**

**EN 4604-007**

December 2019

ICS 49.060

Supersedes EN 4604-007:2007

English Version

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

Série aérospatiale - Câbles électriques pour  
transmission de signaux - Partie 007 : Câble, coaxial, 50  
ohms, 200 °C, type WN - Norme de produit

Luft- und Raumfahrt - Elektrische Leitungen für  
Signalübertragungen - Teil 007: Koaxialkabel, 50 Ohm,  
200 °C, Typ WN - Produktnorm

This European Standard was approved by CEN on 13 October 2019.

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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.

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## **European foreword**

This document (EN 4604-007:2019) 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 document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2020, and conflicting national standards shall be withdrawn at the latest by June 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.

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**EN 4604-007:2019 (E)****1 Scope**

This document specifies the required characteristics of a coaxial cable, 50  $\Omega$ , type WN, for use in aircraft electrical systems at operating temperature between – 55 °C and 200 °C and especially for high frequency up to 6 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 3475-100 (all parts), *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 100: General*

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

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

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

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

ASTM B298-99, *Standard specification for silver-coated soft or annealed copper wire* <sup>2)</sup>

MIL-PRF-39012F, *Performance specification: connectors, coaxial, radio frequency, general specification for* <sup>3)</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 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/>

2) Published by: ASTM National (US) American Society for Testing and Materials, <http://www.astm.org/>

3) Published by: DoD National (US) Mil. Department of Defense, <https://www.defense.gov/>

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