

# SVENSK STANDARD

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### **Aerospace series – Cable, electrical, for signal transmission – Part 003: Cable, coaxial, 50 ohm, 200 °C, type WZ – Product standard**



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Europastandarden EN 4604-003:2009 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN 4604-003:2009.

The European Standard EN 4604-003:2009 has the status of a Swedish Standard. This document contains the official English version of EN 4604-003:2009.

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 4604-003**

February 2009

ICS 49.060

English Version

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

Série aérospatiale - Câbles électriques pour transmission  
de signaux - Partie 003: Câble coaxial, 50 ohm, 200° C,  
type WZ - Norme de produit

Luft- und Raumfahrt - Elektrisch Leitungen für  
Signalübertragungen - Teil 003: Koaxialkabel, 50 Ohm,  
200° C, Typ WZ - Produktnorm

This European Standard was approved by CEN on 21 June 2008.

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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 Management Centre has the same status as the official versions.

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## Foreword

This document (EN 4604-003:2009) 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of an identical text or by endorsement, at the latest by August 2009, and conflicting national standards shall be withdrawn at the latest by August 2009.

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**SS-EN 4604-003:2009 (E)****1 Scope**

This standard specifies the characteristics of a UV laser printable coaxial cable, 50  $\Omega$ , type WZ, for use in aircraft electrical systems at operating temperatures between  $-65\text{ }^{\circ}\text{C}$  and  $200\text{ }^{\circ}\text{C}$  and especially for high frequency up to 3 GHz.

**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*<sup>1)</sup>

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*

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

ASTM B 298-99, *Standard specification for silver-coated soft or annealed copper wire*<sup>3)</sup>

**3 Terms and definitions**

For the purposes of this document, the terms and definitions given in EN 3475-100:2002 apply.

**4 Required characteristics****4.1 Material, construction, dimensions and mass****4.1.1 Material**

See Table 1.

**Table 1 — Material**

	<b>Material</b>	<b>Finish</b>	<b>Colour</b>
Conductor	Single strand copper per ASTM B298-99	1 $\mu\text{m}$ silver plated	Without colouration
Dielectric	Fluoropolymer	—	Without colouration
Screen (foil)	Metallized Foil	—	Without colouration
Shield	Braid, copper per ASTM B298-99	1 $\mu\text{m}$ silver plated	Without colouration
Jacket	Fluorinated Ethylene Propylene (FEP)	—	White

\* And all parts quoted in Table 4.

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) Published by: American Society for Testing and Materials (ASTM), 1916 Race Street, Philadelphia, PA 19103, USA.