



BSI Standards Publication

Aerospace series — Cable, electrical, for signal transmission

Part 003: Cable, coaxial, 50 ohms, 200 °C, type WZ — Product standard

National foreword

This British Standard is the UK implementation of EN 4604-003:2025. It supersedes BS EN 4604-003:2019, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee ACE/6, Aerospace avionic electrical and fibre optic technology.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Amendments/corrigenda issued since publication

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English Version

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

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

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

This European Standard was approved by CEN on 25 May 2025.

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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 COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN 4604-003:2025) has been prepared by ASD-STAN.

After enquiries and votes carried out in accordance with the rules of this Association, this document has received the approval of the National Associations and the Official Services of the member countries of ASD-STAN, 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of an identical text or by endorsement, at the latest by February 2026, and conflicting national standards shall be withdrawn at the latest by February 2026.

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 4604-003:2019.

EN 4604-003:2025 includes the following significant technical changes with respect to EN 4604-003:2019:

- EN 4604-003 (P3), 09/2019 — Introduction of enhance performance for reinforced cable version with controlled VSWR performances.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this document: 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, Türkiye and the United Kingdom.

1 Scope

This document specifies the required characteristics of UV laser printable coaxial cables, 50 Ω , type WZ, for use in aircraft electrical systems at operating temperatures between -65°C and 200°C and specially for high frequency up to 6 GHz.

The document encloses also a reinforced cable version (code R) which is used for sensitive systems with controlled VSWR.

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 3197, *Aerospace series — Design and installation of aircraft electrical and optical interconnection systems*

EN 3475-100, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 100: General*

EN 3475-201, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 201: Visual examination*

EN 3475-202, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 202: Mass*

EN 3475-203, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 203: Dimensions*

EN 3475-301, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 301: Ohmic resistance per unit length*

EN 3475-302, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 302: Voltage proof test*

EN 3475-303, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 303: Insulation resistance*

EN 3475-304, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 304: Surface resistance*

EN 3475-306, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 306: Continuity of conductors*

EN 3475-307, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 307: Corona extinction voltage*

EN 3475-406, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 406: Cold bend test*

EN 3475-407, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 407: Flammability*

EN 3475-411, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 411: Resistance to fluids*

EN 3475-415, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 415: Rapid change of temperature*

- EN 3475-416, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 416: Thermal stability*
- EN 3475-502, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 502: Notch propagation*
- EN 3475-503, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 503: Scrape abrasion*
- EN 3475-505, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 505: Tensile test on conductors and strands*
- EN 3475-506, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 506: Plating continuity*
- EN 3475-507, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 507: Adherence of plating*
- EN 3475-508, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 508: Plating thickness*
- EN 3475-512, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 512: Flexure endurance*
- EN 3475-513, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 513: Deformation resistance (Installation with plastic cable ties)*
- EN 3475-515, *Aerospace series — Cable, electrical, aircraft use — Test methods — Part 515: Crush resistance*
- EN 3475-601, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 601: Smoke density*
- EN 3475-602, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 602: Toxicity*
- EN 3475-701, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 701: Strippability and adherence of insulation to the conductor*
- EN 3475-702, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 702: Screen pushback capability*
- EN 3475-703, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 703: Permanence of manufacturer's marking*
- EN 3475-705, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 705: Contrast measurement*
- EN 3475-706, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 706: Laser markability*
- EN 3475-804, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 804: Velocity of propagation*
- EN 3475-805, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 805: Characteristic impedance*
- EN 3475-806, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 806: Attenuation*