SLOVENSKI STANDARD
SIST EN 4604-006:2025

01-november-2025

Aeronavtika - Kabli, električni, za prenos signala - 006. del: Kabli, koaksialni, 50 ohm, 200 °C, tip WM - Standard za proizvod

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

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

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ICS:

33.120.10	Koaksialni kabli. Valovodi	Coaxial cables. Waveguides
49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 4604-006

August 2025

ICS 49.060

Supersedes EN 4604-006:2019

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

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European foreword

This document (EN 4604-006:2025) 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of an identical text or by endorsement, at the latest by February 2026, and conflicting national standards shall be withdrawn at the latest by February 2026.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 4604-006:2019.

EN 4604-006:2025 includes the following significant technical changes with respect to EN 4604-006:2019:

— EN 4604-006 (P3), 09/2019 — Introduction of enhance performance for reinforced cable version with controlled VSWR performances.

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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.

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1 Scope

This document specifies the required characteristics of coaxial cables, 50 Ω, type WM, for use in aircraft electrical systems at operating temperatures between −55 °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 3475-306, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 306: Continuity of conductors*

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*

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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 — Cables, 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*

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EN 3475-702, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 702: Screen pushback capability*

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EN 3475-703, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 703: Permanence of manufacturer's marking*

EN 3475-704, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 704: Flexibility*

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*

EN 3475-807, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 807: Transfer impedance*

EN 3475-812, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 812: Return loss (VSWR)*

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*

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