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Responsible committee: ACE/6 Aerospace avionic electrical and fibre optic technology

Interested committees:

Title: Draft BS EN 4604-003 Aerospace series - Cable, electrical, for signal transmission. Part 003: Cable, coaxial, 50 Ohm, 200 °C, type WZ - Product standard

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Introduction

This draft standard is based on European discussions in which the UK has taken an active part. Your comments on this draft are welcome and will assist in the preparation of the consequent British Standard. Comment is particularly welcome on national, legislative or similar deviations that may be necessary.

Even if this draft standard is not approved by the UK, if it receives the necessary support in Europe, the UK will be obliged to publish the official English Language text unchanged as a British Standard and to withdraw any conflicting standard.

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Please indicate whether you consider the UK should submit a negative (with reasons) or positive vote on this draft.

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	(7)
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/ Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

June 2022

ICS

Will supersede EN 4604-003:2019

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
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 draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee ASD-STAN.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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 (prEN 4604-003:2022) 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 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 is currently submitted to the CEN Enquiry.

This document will supersede EN 4604-003:2019.

For a list of the changes between prEN 4604-003:2022 and EN 4604-003:2019, see Annex A.

1 Scope

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

The document encloses also a regular and 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 3475-100:2010, 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 - Cable, 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*