Irish Standard
I.S. EN 2854-003:2009

Aerospace series - Cables, electrical for general purpose - Cross sections equal to and greater than 9 mm² - Operating temperatures between - 55 °C and 260 °C - Part 003: Product standard

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English Version

Aerospace series - Cables, electrical for general purpose - Cross sections equal to and greater than 9 mm² - Operating temperatures between - 55 °C and 260 °C - Part 003: Product standard

Série aérospatiale - Câbles électriques d'usage général - Sections supérieures ou égales à 9 mm² - Températures de fonctionnement comprises entre - 55 °C et 260 °C - Partie 003 : Norme de produit

Luft- und Raumfahrt - Elektrische Leitungen für allgemeine Verwendung - Querschnitte 9 mm² und größer - Betriebstemperaturen zwischen - 55 °C und 260 °C - Teil 003: Produktnorm

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This document (EN 2854-003:2009) 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of an identical text or by endorsement, at the latest by August 2009, and conflicting national standards shall be withdrawn at the latest by August 2009.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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1 Scope

This standard specifies the characteristics of electrical cables for use in the on-board electrical systems of aircraft at operating temperatures between – 55 °C and 260 °C for cross sections equal to and greater than 9 mm^2.

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 2083, *Aerospace series — Copper and copper alloy conductors for electrical cables — Product standard*

EN 2084, *Aerospace series — Cables, electric, single-core, general purpose, with conductors in copper or copper alloy — Technical specification*

EN 2235, *Aerospace series — Single and multicore electrical cables, screened and jacketed*

EN 2854-002, *Aerospace series — Cables, electrical for general purpose — Cross sections equal to and greater than 9 mm^2 — Operating temperatures between – 55 °C and 260 °C — Part 002: General*

EN 3475-*, *Aerospace series — Cables, electrical, aircraft use — Test methods*

EN 9133, *Aerospace series — Quality management systems — Qualification procedure for aerospace standard parts*

3 Terms and definitions

For the purposes of this standard the terms and definitions given in EN 3475-100 apply.

4 Materials and construction

4.1 Materials

Conductor: see EN 2854-002.

Insulation:

For all conductor size codes:

Taped layers of polyimide/PTFE/glass fibre impregnated with PTFE/PTFE.

1 Published as ASD Prestandard at the date of publication of this standard.

* All parts quoted in Table 2.