

STN	Letectvo a kozmonautika. Inštalácia elektrických káblov. Ochranné manžety. Skúšobné metódy. Časť 502: Odolnosť proti elektrickému oblúku.	STN EN 6059-502 31 1832
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Aerospace series - Electrical cables, installation - Protection sleeves - Test methods - Part 502: Resistance to electrical arcs

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 05/15

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English Version

Aerospace series - Electrical cables, installation - Protection sleeves - Test methods - Part 502: Resistance to electrical arcs

Série aérospatiale - Câbles électriques, installation - Gainses de protection - Méthodes d'essais - Partie 502: Résistance aux arcs électriques

Luft- und Raumfahrt - Elektrische Leitungen, Installation - Schutzschläuche - Prüfverfahren - Teil 502: Lichtbogenfestigkeit

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Foreword

This document (EN 6059-502:2014) 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of an identical text or by endorsement, at the latest by June 2015, and conflicting national standards shall be withdrawn at the latest by June 2015.

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This document supersedes EN 6059-502:2009.

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1 Scope

This European Standard specifies a method of assessing the behaviour of protection sleeves or conduits subject to an external electric arc, either at 115 Vac or 230 Vac 400 Hz.

This Standard shall be used together with EN 6059-100.

The primary aim of this test is to produce, in a controlled fashion, electric arcs at the immediate vicinity of a protection sleeve or conduit and to examine possible consequences on cables inside this protection, which are supposed to be maintained in a safe condition. These electric arcs are representative of those, which may occur in service when a typical cable bundle is severely damaged.

In order to optimize thickness and mass of such protection, it is necessary to associate a current limit I_n to each sleeves or conduits construction.

Two levels of prospective fault current are specified for all protection sizes.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2267-010, *Aerospace series — Cables, electrical, for general purpose — Operating temperatures between – 55 °C and 260 °C — Part 010: DR family, single UV laser printable — Product standard*

EN 2350, *Aerospace series — Circuit breakers — Technical specification*

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

EN 6059-100, *Aerospace series — Electrical cables, installation — Protection sleeves — Test methods — Part 100: General*

EN 6059-501, *Aerospace series — Electrical cables, installation — Protection sleeves — Test methods — Part 501: Voltage proof test*

A-A-52083, *Specification for tape lacing and tying* ¹

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