ICS 49.060 SLOVENSKÁ TECHNICKÁ NORMA November 2019

STN	**Letectvo a kozmonautika Teplom zmraštiteľné rúrky na viazanie, izoláciu a identifikáciu Časť 103: Fluóroelastomérové rúrky pre prevádzkové teploty od -55 °C do 200 °C Norma na výrobok**	**STN EN 4708-103** 31 1857

Aerospace series - Sleeving, heat-shrinkable, for binding, insulation and identification - Part 103: Fluoroelastomer sleeves - Operating temperature -55 C to 200 C - Product standard

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

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English Version

Aerospace series - Sleeving, heat-shrinkable, for binding, insulation and identification - Part 103: Fluoroelastomer sleeves - Operating temperature -55 °C to 200 °C - Product standard

Série aérospatiale - Manchons thermorétractables, de jonction, isolement et identification - Partie 103: Gaines à base de fluoroélastomère - Températures d'utilisation -55 °C à 200 °C - Norme de produit

Luft- und Raumfahrt - Wärmeschrumpfender Schlauch zur Befestigung, Isolierung und Identifizierung - Teil 103: Fluorpolymer Schlauch - Temperaturbereich -55 °C und 200 °C - Produktnorm

This European Standard was approved by CEN on 6 August 2018.

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 (EN 4708-103:2019) 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of an identical text or by endorsement, at the latest by November 2019, and conflicting national standards shall be withdrawn at the latest by November 2019.

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.

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1 Scope

This document specifies the required characteristics for two types a heat-shrinkable, fluoroelastomer sleeving for use in aircraft electrical systems at operating temperatures between -55 °C and 200 °C.

Type A Thick wall

Type B Thin wall

This sleeving has good flexibility, is flame retarded and has a thick wall for mechanical protection. It is for use in areas subject to prolonged contamination by aircraft fuel and fluids with the exception of phosphate ester-based hydraulic fluids. The standard colour is black.

These sleevings are normally supplied with internal diameters up to 50 mm for shrink ratios of 2:1. They are available in black only.

Sizes other than those specifically listed in this standard may be available. These items shall be considered to comply with this standard if they comply with the property requirements listed in Tables 2, 3 and 4 except for dimensions and mass.

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 3909, *Aerospace series — Test fluids and test methods for electrical and optical components and sub-assemblies*

EN 4708-001, *Aerospace series — Sleeving, heat-shrinkable, for binding, insulation and identification — Part 001: Technical specification*

EN ISO 846, *Plastics — Evaluation of the action of microorganisms*[1)]

EN ISO 1817, *Rubber, vulcanized or thermoplastic — Determination of the effect of liquids* [1)]

IEC 60684-1, *Flexible insulating sleeving — Part 1: Definitions and general requirements* [2)]

IEC 60684-2, *Flexible insulating sleeving — Part 2: Methods of test* [2)]

IEC 60757, *Code for designation of colours* [2)]

1) Published by: International Organization for Standardization (ISO), http://www.iso.org/

2) Published by: International Electrotechnical Commission (IEC), http://www.iec.ch/