



NSAI
Standards

Irish Standard
I.S. EN 4641-102:2009

Aerospace series - Cables, optical 125
 μm outside diameter cladding - Part
102: Semi-loose 62,5/125 μm GI fibre
nominal 1,8 mm outside diameter -
Product standar

I.S. EN 4641-102:2009

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NSAI 1 Swift Square, Northwood, Santry Dublin 9	T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W NSAI.ie	Sales: T +353 1 857 6730 F +353 1 857 6729 W standards.ie
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EUROPEAN STANDARD

EN 4641-102

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EUROPÄISCHE NORM

February 2009

ICS 49.060

English Version

**Aerospace series - Cables, optical 125 μm outside diameter
cladding - Part 102: Semi-loose 62,5/125 μm GI fibre nominal
1,8 mm outside diameter - Product standard**

Série aérospatiale - Câble, optique, diamètre extérieur de la
gaine optique 125 μm - Partie 102 : Câble à structure semi
libre, fibre à gradient d'indice 62,5/125 μm , diamètre
extérieur 1,8 mm - Norme de produit

Luft- und Raumfahrt - Lichtwellenleiterkabel,
Claddingdurchmesser 125 μm - Teil 102: Halbfester
Leiternaufbau GI 62,5/125 μm , Faser
Kabelaußendurchmesser 1,8 mm - Produktnorm

This European Standard was approved by CEN on 6 September 2008.

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Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN 4641-102:2009) 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of an identical text or by endorsement, at the latest by August 2009, and conflicting national standards shall be withdrawn at the latest by August 2009.

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1 Scope

This product standard specifies the general characteristics, conditions for qualification, acceptance and quality assurance for a fibre optic cable with a 62,5/125 µm Graded Index fibre nominal, 1,8 mm outside diameter and of semi-loose buffer construction.

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 2424, *Aerospace series — Marking of aerospace products*

EN 2812, *Aerospace series — Stripping of electrical cables* ¹

EN 3475-601, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 601: Smoke density*

EN 3745-100*, *Aerospace series — Fibres and cables, optical, aircraft use — Test methods — Part 100: General*

EN 3838, *Aerospace series — Requirements and tests on user-applied markings on aircraft electrical cables* ¹

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

EN 4641-001, *Aerospace series — Cables, optical 125 µm diameter cladding — Part 001: Technical specification* ¹

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

ISO 1817, *Rubber, vulcanized — Determination of the effect of liquids*

ISO 11075, *Aircraft — De-icing/anti-icing fluids — ISO type I*

ISO 11078, *Aircraft — De-icing/anti-icing fluids — ISO types II, III and IV*

TR 4647, *Aerospace series — Fibres and cables, optical aircraft use — Technical Report — Termination procedure for EN 4639 contact* ²

STANAG 3748, *Hydraulic fluid, petroleum (H-515, H-520 and C-635) and polyalphaolefin (H-537, H-538 and H-544)* ³

MIL-PRF-87252C, *Coolant fluid, hydrolytically stable, dielectric* ⁴

AMS 1428, *Fluid, aircraft deicing/Anti-icing, non-Newtonian (pseudoplastic), SAE types II, III, and IV* ⁵

NSA 307110, *Fluid — Hydraulic phosphate ester — Base fire resistant*

* And all parts quoted in this standard.

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

² In preparation at the date of publication of this standard.

³ Published by: NATO Military Agency for Standardization (MAS); B-1110 Brussels, Belgium.

⁴ Published by: Department of Defense (DoD), the Pentagon, Washington, DC 20301, USA.

⁵ Published by: Society of Automotive Engineers, Inc. (SAE), 400 Commonwealth Drive, Warrendale, PA 15096-0001, USA.

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