



NSAI
Standards

Irish Standard
I.S. EN 4645-005:2009

Aerospace series - Connectors, optical, circular, single and multipin, coupled by threaded ring, self-locking 1,25 mm diameter ferrule with removable alignment sleeve holder - Part 005: Plug - Product standard

I.S. EN 4645-005:2009

Incorporating amendments/corrigenda issued since publication:

<i>This document replaces:</i>	<i>This document is based on:</i> EN 4645-005:2009	<i>Published:</i> 4 November, 2009
This document was published under the authority of the NSAI and comes into effect on: 27 November, 2009		ICS number: 49.060
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
Údarás um Chaighdeáin Náisiúnta na hÉireann		

I.S. EN 4645-005:2009

EUROPEAN STANDARD

EN 4645-005

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2009

ICS 49.060

English Version

**Aerospace series - Connectors, optical, circular, single and
multipin, coupled by threaded ring, self-locking 1,25 mm
diameter ferrule with removable alignment sleeve holder - Part
005: Plug - Product standard**

Série aérospatiale - Connecteurs optiques circulaires à
accouplement par bague filetée, auto-freinante ferrule 1,25
mm, équipés d'un porte manchon démontable - Partie 005:
Fiche - Norme produit

Luft- und Raumfahrt - Optische Rundsteckverbinder mit
Schraubkupplung, selbstsichernd Ferrulendurchmesser
1,25 mm, demontierbarer Zentrierhülsenhafter - Teil 005:
Fester Steckverbinder - Produktnorm

This European Standard was approved by CEN on 3 October 2009.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

This European Standard exists 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Required characteristics	5
4.1 Dimensions and masses	5
4.2 Material and surface treatment.....	6
4.3 Optical, mechanical and climatic characteristics.....	6
5 Plug connector designation	6
6 Marking	6
7 Technical specification	7
8 Quality	7

Foreword

This document (EN 4645-005:2009) 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 May 2010, and conflicting national standards shall be withdrawn at the latest by May 2010.

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.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies the characteristics of mounted plug receptacles in the family of circular connectors with triple start threaded coupling.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applied. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2424:2008, *Aerospace series — Marking aerospace products*.

EN 3645-003, *Aerospace series – Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperatures 175 °C or 200 °C continuous — Part 003: Receptacle square flange mounting — Product standard*

EN 4639-101, *Aerospace series — Connectors, optical, rectangular, modular, multicontact, 1,25 mm diameter ferrule, with removable alignment sleeve holder — Part 101: Optical contact for cable EN 4641-100 — Operating temperatures between - 65 °C and 152 °C — Product standard*

EN 4639-102, *Aerospace series — Connectors, optical, rectangular, modular, multicontact, 1,25 mm diameter ferrule, with removable alignment sleeve holder — Part 102: Optical contact for cable EN 4641-102 — Operating temperatures between - 55 °C and 100 °C — Product standard*

EN 4645-001:2009, *Aerospace series — Connectors, optical, circular, single and multipin, coupled by threaded ring, self-locking 1,25 mm diameter ferrule with removable alignment sleeve holder — Part 001: Technical specification* ¹⁾

EN 4645-002:2009, *Aerospace series — Connectors, optical, circular, single and multipin, coupled by threaded ring, self-locking 1,25 mm diameter ferrule with removable alignment sleeve holder — Part 002: Specification of performance and contact arrangements* ¹⁾

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

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 4645-001:2009 apply.

The sleeve holder is delivered with the female arrangement. It is considered as a part of the female arrangement (specific design per manufacturer).

The sleeve holder can be supplied separately only for repair purpose.

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

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-