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IRISH STANDARD

**I.S. EN 3733-004:2008**

ICS 49.060

# AEROSPACE SERIES - CONNECTOR, OPTICAL, CIRCULAR, SINGLE CHANNEL, COUPLED BY SELF-LOCKING RING, OPERATING TEMPERATURE 150 °C CONTINUOUS - PART 004: RECEPTACLE, CONNECTOR, FOUR HOLE FIXING CABLE ACCORDING TO EN 4532, PRODUCT STANDARD

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I.S. EN 3733-004:2008

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

# EN 3733-004

April 2008

ICS 49.060

English Version

# Aerospace series - Connector, optical, circular, single channel, coupled by self-locking ring, operating temperature 150 °C continuous - Part 004: Receptacle, connector, four hole fixing cable according to EN 4532, product standard

Série aérospatiale - Connecteur optique circulaire monovoie à accouplement par bague filetée, température d'utilisation 150 °C continu - Partie 004: Embase à collerette à quatre trous pour la fixation pour câble selon l'EN 4532 - Norme de produit

Luft- und Raumfahrt - Optischer Rundsteckverbinder einpolig, Schraubkupplung, Betriebstemperatur 150 °C konstant - Teil 004: Fester Steckverbinder mit vier Befestigungsbohrungen für Kabel nach EN 4532, Produktnorm

This European Standard was approved by CEN on 16 September 2007.

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# Foreword

This document (EN 3733-004:2008) 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of an identical text or by endorsement, at the latest by October 2008, and conflicting national standards shall be withdrawn at the latest by October 2008.

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## 1 Scope

This standard specifies the characteristics of receptacle connectors with four hole fixing in the family of circular single channel fibre optic connectors incorporating ferrules for aerospace series single core optical cable in accordance with EN 4532.

Connector interface dimensions, table of tests and qualification approval requirements, are contained in the Technical Specification EN 3733-001. EN 3733-002, List of product standards, includes the listings of product types, codification and applicable combinations of product types.

## 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 2591, *Aerospace series — Elements of electrical and optical connection — Test methods — General*[1)]

EN 2591-100, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 100: General*

EN 3733-001, *Aerospace series — Connector, optical, circular, single channel, coupled by self-locking ring, operating temperature 150 °C continuous — Part 001: Technical specification*[2)]

EN 3733-002, *Aerospace series — Connector, optical, circular, single channel, coupled by self-locking ring, operating temperature 150 °C continuous — Part 002: List of product standards*[2)]

EN 3733-003, *Aerospace series — Connector, optical, circular, single channel, coupled by self-locking ring, operating temperature 150 °C continuous — Part 003: Plug connector for cable according to EN 4532, product standard*[2)]

EN 3733-007, *Aerospace series — Connector, optical, circular, single channel, coupled by self-locking ring, operating temperature 150 °C continuous — Part 007: Ferrule (optical contact) for cable according to EN 4532 (200 μm/280 μm fibre),* product *standard*[2)]

EN 3733-009, *Aerospace series — Connector, optical, circular, single channel, coupled by self-locking ring, operating temperature up to 150 °C continuous — Part 009: Receptacle sub-assembly for cable to EN 4532 (200 μm/280 μm fibre) — Product standard*

EN 4532, *Aerospace series — Cables, optical, single core — 200/280 μm fibre, 2,5 mm outer jacket — Technical specification*[2)]

MIL-STD-810F, *Environmental Engineering Considerations and Laboratory Tests*[3)]

## 3 Terminology

See EN 2591-100.

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1) All parts quoted in Table 2.

2) Published as AECMA prestandard at the date of publication of this standard.

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

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