Irish Standard
I.S. EN 4830-001:2015

Aerospace series - Connectors, optical, rectangular, modular, operating temperature 125 °C, for EN 4639-10X contacts - Part 001: Technical specification

I.S. EN 4830-001:2015

Incorporating amendments/corrigenda/National Annexes issued since publication:

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

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National Foreword

I.S. EN 4830-001:2015 is the adopted Irish version of the European Document EN 4830-001:2015, Aerospace series - Connectors, optical, rectangular, modular, operating temperature 125 °C, for EN 4639-10X contacts - Part 001: Technical specification

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 4830-001

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ICS 49.090

English Version

Aerospace series - Connectors, optical, rectangular, modular, operating temperature 125 °C, for EN 4639-10X contacts - Part 001: Technical specification

Série aérospatiale - Connecteurs optiques rectangulaires, modulaires, température d'utilisation 125 °C, pour contacts EN 4639-10X - Partie 001: Spécification technique

Luft- und Raumfahrt - Optischer Rechtecksteckverbinder, modular, Betriebstemperatur 125 °C, für EN 4639-10X Kontakte - Teil 001: Technische Lieferbedingungen

This European Standard was approved by CEN on 22 August 2015.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN 4830-001:2015) 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 European 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of an identical text or by endorsement, at the latest by June 2016, and conflicting national standards shall be withdrawn at the latest by June 2016.

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Introduction

This family of fibre optic connectors is derived from EN 4165-001 with EN 4639-10X optical contacts. It is suitable for use on aerospace on board applications. It provides easy access for optical contact end face cleaning.

1 Scope

This European Standard specifies the general characteristics, the conditions for qualification, acceptance and quality assurance, as well as the test programs and groups for EN 4165 rectangular connectors with removable optical modules using EN 4639-10X contacts.

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 2591 (all parts), *Aerospace series — Elements of electrical and optical connection — Test methods*

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

EN 4165 (all parts), *Aerospace series — Connectors, electrical, rectangular, modular — Operating temperature 175 °C continuous*

EN 4529 (all parts), *Aerospace series — Elements of electrical and optical connection — Sealing plugs*

EN 4639 (all parts), *Aerospace series — Connectors, optical, circular, single and multipin, coupled by threaded ring — Flush contacts*

EN 4830-002, *Aerospace series — Connectors, optical, rectangular, modular, operating temperature 125 °C, for EN 4639-10X contacts — Part 002: Specification of performance*

EN 4830-003, *Aerospace series — Connectors, optical, rectangular, modular, operating temperature 125 °C, for EN 4639-10X contacts — Part 003: Module — Product standard*

EN 4830-004, *Aerospace series — Connectors, optical, rectangular, modular, operating temperature 125 °C, for EN 4639-10X contacts — Part 004: Extraction tool — Product standard*

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

MIL-I-81969/14-03, *Installing and removal tools, connector electrical contact, type III, class 2, composition B* [1)]

TR 4684, *Aerospace series — Electrical and optical technology and component definitions* [2)]

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1) Published by; DoD National (US) Mil. Department of Defense. http://www.defenselink.mil/