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Responsible committee: ACE/6 Aerospace avionic electrical and fibre optic technology

Interested committees:

Title: Draft BS EN 4641-301 Aerospace series - Cables, optical 125µm diameter cladding

Part 301: Tight structure 50/125 µm GI fibre nominal 1.8 mm Outside Diameter- Product Standard

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Introduction

This draft standard is based on European discussions in which the UK has taken an active part. Your comments on this draft are welcome and will assist in the preparation of the consequent British Standard. Comment is particularly welcome on national, legislative or similar deviations that may be necessary.

Even if this draft standard is not approved by the UK, if it receives the necessary support in Europe, the UK will be obliged to publish the official English Language text unchanged as a British Standard and to withdraw any conflicting standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with reasons) or positive vote on this draft.

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	(7)
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/ Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

Date: 2012-05

ENGLISH VERSION

Aerospace series

Cables, optical 125µm diameter cladding

**Part 301: Tight structure 50-125 µm GI fibre nominal 1.8 mm Outside Diameter
Product Standard**

Série aérospatiale

**Câble optique, diamètre extérieur de la
gaine optique 125µm**

**Part 301 : Structure serrée, Fibre à gradient d'indice
50/125 µm**

Diamètre extérieur 1,8 mm

Norme produit

Luft- und Raumfahrt

**Lichtwellenleiterkabel,
Claddingdurchmesser
125µm**

**Teil 301: Festaderaufbau GI 50/125µm
Faser**

Kabelaußendurchmesser 1,8 mm

Produktnorm

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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 50/125µm Graded Index fibre core, 1.8mm outside diameter for non pull-proof contact designs.

2 Normative references

This European Product Standard incorporates by dated or undated reference provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 9133 Aerospace series – Quality management systems, qualification procedure for aerospace standard parts

EN 3745 Aerospace series - Fibres and cables, optical, aircraft use – Test Methods

EN 3475 Aerospace series - Cables, electrical, aircraft use - Test methods.

EN 3838 Aerospace series - Requirements and tests on user-applied markings on aircraft electrical cables

EN 2812 Aerospace series - Stripping of electrical cables

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

EN 4641-001 Aerospace series – Cables, Optical, 125 µm diameter cladding – Technical specification

EN 60794 Optical fibre cables, general specifications

EN 60793 Optical fibres, measurement methods and test procedures

TR 6058 Cable code identification list

3 Definitions, symbols and abbreviations

For the purposes of this standard, the definitions, symbols and abbreviations detailed in EN 3745-100 apply.

4 Required characteristics

The characteristics of the cables, tested according to the methods described hereafter shall comply with the values defined in this product standard.