



BSI Standards Publication

Aerospace series — Cables, optical 125 μm diameter cladding

Part 301: Tight structure 50/125 μm
GI fibre nominal 1,8 mm outside
diameter — Product standard

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National foreword

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A list of organizations represented on this committee can be obtained on request to its secretary.

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**Aerospace series - Cables, optical 125 μ m diameter cladding -
Part 301: Tight structure 50/125 μ m GI fibre nominal 1,8 mm
outside diameter - Product standard**

Série Aérospatiale - Câbles, optiques, diamètre extérieur
de la gaine optique 125 μ m - Partie 301: Câble à structure
serrée, fibre à gradient d'indice 50/125 μ m, diamètre
extérieur 1,8 mm - Norme de produit

Luft- und Raumfahrt - Lichtwellenleiterkabel,
Claddingdurchmesser 125 μ m - Teil 301: Festaderaufbau
GI 50/125 μ m, Faser Kabelaußendurchmesser 1,8 mm -
Produktnorm

This European Standard was approved by CEN on 12 February 2011.

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Foreword

This document (EN 4641-301:2011) 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of an identical text or by endorsement, at the latest by November 2011, and conflicting national standards shall be withdrawn at the latest by November 2011.

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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 50/125 µm Graded Index fibre core, 1,8 mm outside diameter for non pull-proof contact designs.

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

EN 3745 (all parts), *Aerospace series — Fibres and cables, optical, aircraft use — Test methods*

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*

TR 4667, *Aerospace series — Termination procedure for EN 4639 optical contact*¹⁾

3 Terms, definitions, symbols and abbreviations

For the purposes of this document, the terms, 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.

1) Published as ASD-STAN Technical Report at the date of publication of this standard by Aerospace and Defence Industries Association of Europe-Standardization (ASD-STAN), (www.asd-stan.org).