
Aeronavtika - Konektorji, optični, okrogli, z enim ali več zatiči, priključeni z navojnim obročkom - Izravnani kontakti - 201. del: Optični kontakt za kabel EN 4641 - 55 °C do 125 °C - Standard za proizvod

Aerospace series - Connectors, optical, circular, single and multipin, coupled by triple start threads ring - Flush contacts - Part 201: Optical contact for EN 4641 singlemode cable -55 °C to 125 °C - Product standard

Luft- und Raumfahrt - Optische Rundsteckverbinder mit dreigängiger Schraubkupplung - Bündige Kontakte Teil 201: Optischer Kontakt für EN 4641 Monomode-Lichtwellenleiterkabel -55 °C bis 125 °C - Produktnorm

Série aéronautique - Connecteurs optiques circulaires à accouplement par bague fileté à trois filets - Contacts affleurants - Partie 201: Contact optique pour câble monomode EN 4641 - 55 °C à 125 °C - Norme de produit

Ta slovenski standard je istoveten z: EN 4531-201:2016

ICS:

31.220.10	Vtiči in vtičnice, konektorji	Plug-and-socket devices. Connectors
49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems

SIST EN 4531-201:2016

en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 4531-201

January 2016

ICS 49.090

English Version

Aerospace series - Connectors, optical, circular, single and multipin, coupled by triple start threads ring - Flush contacts - Part 201: Optical contact for EN 4641 singlemode cable -55 °C to 125 °C - Product standard

Série aérospatiale - Connecteurs optiques circulaires à accouplement par bague fileté à trois filets - Contacts affleurants - Partie 201: Contact optique pour câble monomode EN 4641 - 55 °C à 125 °C - Norme de produit

Luft- und Raumfahrt - Optische Rundsteckverbinder mit dreigängiger Schraubkupplung - Bündige Kontakte - Teil 201: Optischer Kontakt für EN 4641 - Monomodekabel, -55 °C bis 125 °C - Produktnorm

This European Standard was approved by CEN on 8 June 2015.

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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-CENELEC Management Centre has the same status as the official versions.

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

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European Foreword

This document (EN 4531-201:2016) 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 July 2016, and conflicting national standards shall be withdrawn at the latest by July 2016.

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, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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EN 4531-201:2016 (E)

1 Scope

This standard defines the performance and dimensions of optical PC profiled contact for singlemode 9 micrometres/125 micrometres fibre and $(1,8 \pm 0,1)$ mm diameter cable.

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 4531-001, *Aerospace series — Connectors, optical, circular, single and multipin, coupled by triple start threaded ring — Flush contacts — Part 001: Technical specification*

EN 4533 (all parts), *Aerospace series — Fibre optic systems — Handbook*

EN 4641 (all parts), *Aerospace series — Cables, optical, 125 μ m diameter cladding*

TR 4646 ¹⁾, *Aerospace series — Termination procedure for EN 4531 optical contact*

MIL-I-81969/8-10 ²⁾, *Installing and removal tools, connector electrical contact, types I and II, class 2, composition A*

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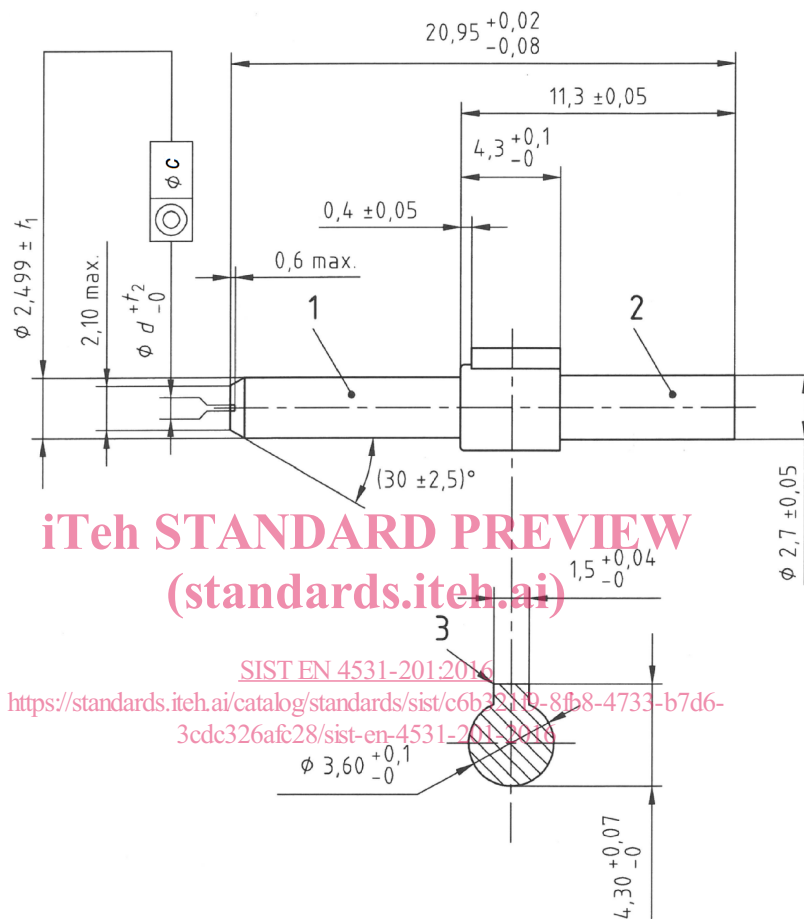
1) Published as ASD-STAN Technical Report at the date of publication of this European Standard (<http://www.asd-stan.org/>).

2) Published by: DoD National (US) Mil. Department of Defense <http://www.defenselink.mil/>

See Figure 1.

Dimensions and tolerances are in millimetres.

Dimensions of t_1 , t_2 , c and d of Figure 1 are detailed Table 1.



- 1 ferrule
- 2 flange
- 3 chamfer or radius = 0,05 min./0,2 max.

Figure 1

Table 1

EN 4531-	Cable	Optical fibre type	Outer diameter	c	d	t_1	t_2
		micrometre	mm	μm	μm	μm	μm
201	EN 4641-xxx	9/125	1,8 ± 0,1	1	126,5	0,5	1

4 General dimensions of the optical termini

4.1 Contact dimension and mass

See Figure 2.

Dimensions and tolerances are in millimetres.

Mass of the contact: 1,5 g maximum.

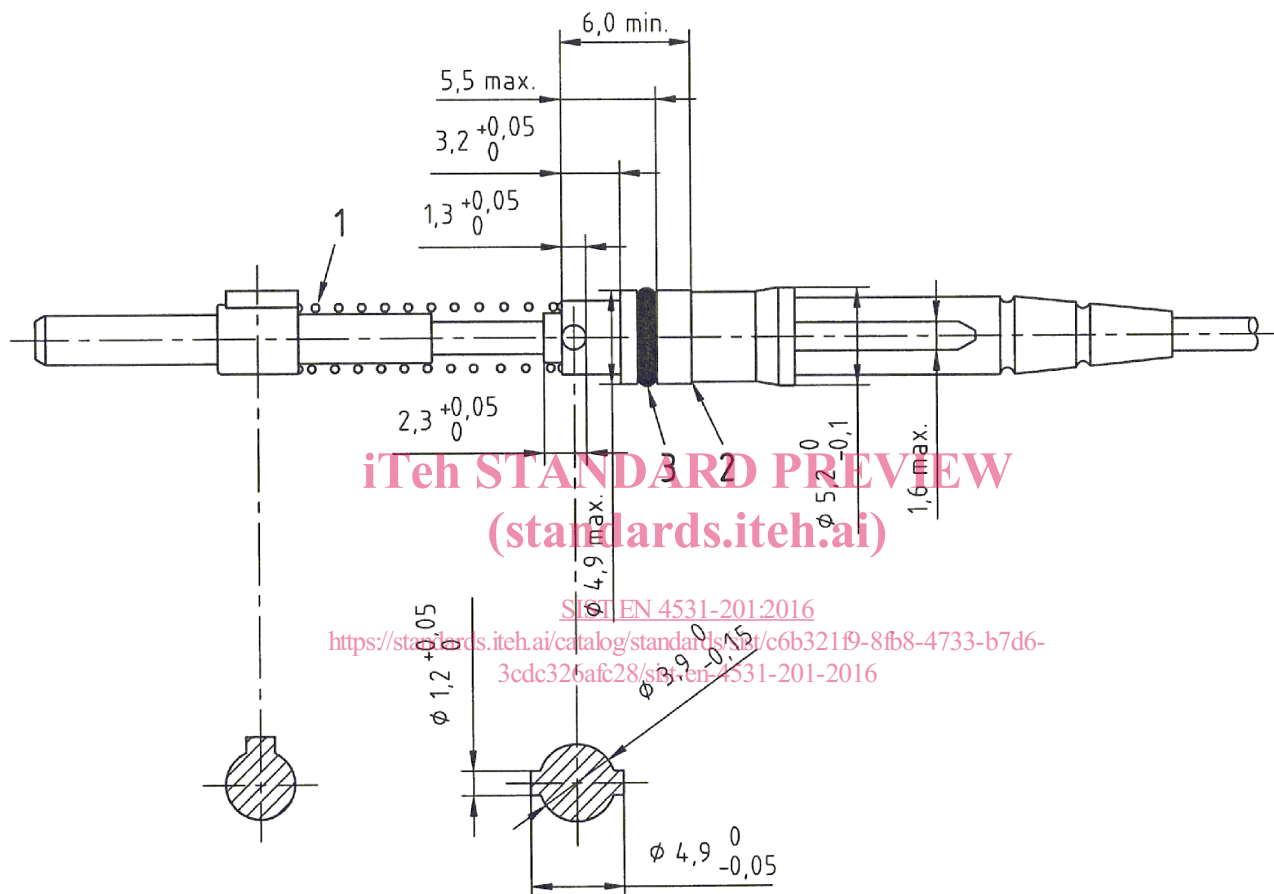


Figure 2

4.2 Boot dimension

4.2.1 Long version

See Figure 3 and Table 2.

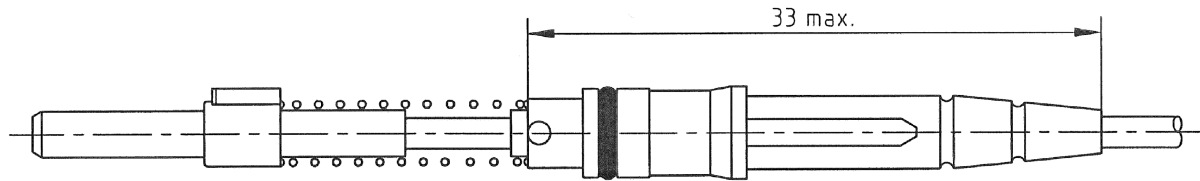


Figure 3

4.2.2 Short version

See Figure 4 and Table 2.

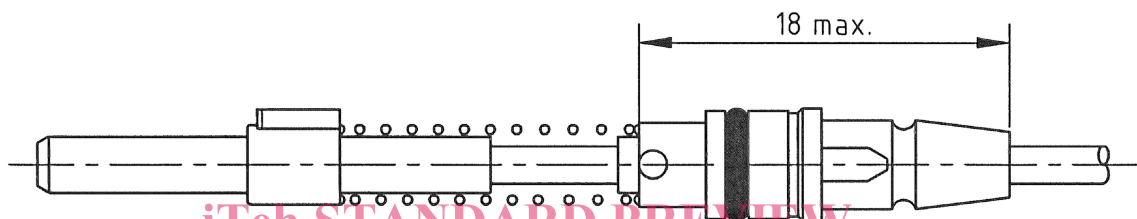


Figure 4

Table 2

	Boot code	Boot colour
Long boot	L	White or cream
Short boot	S	White or cream

4.3 Material

See Table 3.

Table 3

Flange material	Code
Composite	C
Metal	M

Ferrule material: Zirconia (Zr O₂)