

BS EN 3660-002:2016



BSI Standards Publication

Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors

Part 002: Index of product standards

bsi.

...making excellence a habit.™

National foreword

This British Standard is the UK implementation of EN 3660-002:2016. It supersedes BS EN 3660-002:2006 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee ACE/6, Aerospace avionic electrical and fibre optic technology.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2016.
Published by BSI Standards Limited 2016

ISBN 978 0 580 89603 3

ICS 49.060

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 January 2016.

Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

EUROPEAN STANDARD

EN 3660-002

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2016

ICS 49.060

Supersedes EN 3660-002:2006

English Version

Aerospace series - Cable outlet accessories for circular and rectangular electrical and optical connectors - Part 002: Index of product standards

Série aérospatiale - Accessoires arrière pour connecteurs circulaires et rectangulaires électriques et optiques - Partie 002: Liste des normes de produit

Luft- und Raumfahrt - Endgehäuse für elektrische und optische Rund- und Rechtecksteckverbinder - Teil 002: Übersicht über die Einzelnormen

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

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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.

CEN members are the national standards bodies of 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 United Kingdom.



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

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

Contents		Page
European foreword		3
1	Scope.....	4
2	Normative references.....	4
3	Index of product standards and associated connectors	7

European foreword

This document (EN 3660-002:2016) 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 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 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.

This document supersedes EN 3660-002:2006.

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.

1 Scope

This European Standard lists the product standards, covered by technical specification EN 3660-001, for cable outlet accessories for use with circular and rectangular, electrical and optical connectors of types EN 2997, EN 3372, EN 3645, EN 3646 and EN 3682 on aerospace equipment.

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 2997 (all parts), *Aerospace series — Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak*

EN 3372 (all parts), *Aerospace series — Connectors, electrical, circular, medium and high contact density, scoop-proof with bayonet coupling, operating temperature – 65 °C to 175 °C or 200 °C continuous*

EN 3645 (all parts), *Aerospace series — Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous*

EN 3646 (all parts), *Aerospace series — Connectors, electrical, circular, bayonet coupling, operating temperature 175 °C or 200 °C continuous*

EN 3660-001, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 001: Technical specification*

EN 3660-003, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 003: Grommet nut, style A for EN 2997— Product standard*

EN 3660-004, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 004: Cable outlet, style A, straight, unsealed with clamp strain relief for EN 2997 — Product standard*

EN 3660-005, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 005: Cable outlet, style A, 90°, unsealed with clamp strain relief for EN 2997 — Product standard*

EN 3660-006, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 006: Cable outlet, self-locking, style C, straight, shielded (cone grounding), unsealed with clamp strain relief— Product standard*

EN 3660-007, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 007: Cable outlet, self-locking, style C, 90°, shielded (cone grounding), unsealed with clamp strain relief — Product standard*

EN 3660-008, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 008: Cable outlet, self-locking, style C, 45°, shielded (cone grounding), unsealed with clamp strain relief — Product standard*

EN 3660-009, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 009: Cable outlet, style J, straight, sealed, for heat shrinkable boot — Product standard*

EN 3660-010, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 010: Cable outlet, style K, straight, shielded, sealed, for heat shrinkable — Product standard*

EN 3660-011, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 011: Cable outlet, style K, 90°, shielded, sealed, for heat shrinkable boot — Product standard*

EN 3660-012, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 012: Grommet nut, style A for EN 3372 — Product standard*

EN 3660-013, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 013: Cable outlet, style A, straight, unsealed, with cable tie strain relief — Product standard*

EN 3660-014, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 014: Cable outlet, style A, 90°, unsealed, with cable tie strain relief — Product standard*

EN 3660-015, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 015: Cable outlet, style A, 45°, unsealed, with cable tie strain relief — Product standard*

EN 3660-016, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 016: Grommet nut, style A, self-locking and non self-locking for EN 3645 — Product standard*

EN 3660-017, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 017: Cable outlet, style A, straight, unsealed, with cable tie strain relief — Product standard*

EN 3660-018, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 018: Cable outlet, style A, 90°, unsealed, with cable tie strain relief — Product standard*

EN 3660-019, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 019: Cable outlet, style A, 45°, unsealed, with cable tie strain relief — Product standard*

EN 3660-020, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 020: Cable outlet, style A, straight, unsealed, self-locking with clamp strain relief for EN 3645 — Product standard*

EN 3660-021, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 021: Cable outlet, style A, 90°, unsealed, self-locking with clamp strain relief for EN 3645 — Product standard*

EN 3660-022, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 022: Cable outlet, style A, straight, composite, unsealed, with cable tie strain relief — Product standard*

EN 3660-023, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 023: Cable outlet, style A, 90°, composite, unsealed, with cable tie strain relief — Product standard*

EN 3660-024, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 024: Grommet nut, style A, composite — Product standard*

EN 3660-025, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 025: Cable outlet, style A, straight, unsealed, with cable tie strain relief for EN 3646 — Product standard*

EN 3660-026, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 026: Cable outlet, style A, 90°, unsealed, with cable tie strain relief for EN 3646 — Product standard*

EN 3660-027, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 027: Cable outlet, style A, 45°, unsealed, with cable tie strain relief for EN 3646 — Product standard*

EN 3660-028, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 028: Cable outlet, style J, straight, for heat shrinkable boot for EN 3372 — Product standard*¹⁾

EN 3660-029, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 029: Cable outlet, style K, straight, for heat shrinkable boot, with braid termination outlet for EN 3372 — Product standard*¹⁾

EN 3660-030, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 030: Cable outlet, style K, 90°, for heat shrinkable boot, with braid termination outlet for EN 3372 — Product standard*¹⁾

EN 3660-031, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 031: Cable outlet, style J, straight, for heat shrinkable boot for EN 3645 — Product standard*¹⁾

EN 3660-032, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 032: Cable outlet, style K, straight, for heat shrinkable boot, with braid termination outlet for EN 2997 — Product standard*¹⁾

EN 3660-033, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 033: Stainless steel banding band, style Z, for attachment of individual and/or overall screens to cable outlets — Product standard*¹⁾

EN 3660-034, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 034: Memory metal ring — Product standard*¹⁾

EN 3660-035, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 035: Cable outlet, style K, 90°, for heat shrinkable boot, with braid termination outlet for EN 3645 — Product standard*¹⁾

EN 3660-036, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 036: Spacer pad for cable outlet, style Z — Product standard*

1) In preparation at the date of publication of this European Standard.

EN 3660-037, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 037: Bushing strip, elastomer, for cable outlet, style Z — Product standard*

EN 3660-038, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 038: Manual installation tool, style Z, for installation of stainless steel shield termination band EN 3660-033, to cable outlet accessories — Product standard*

EN 3660-062, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 062: Cable outlet, style K, 90°, for heat shrinkable boot, shielded, sealed, self-locking for EN 3645 — Product standard*

EN 3660-063, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 063: Cable outlet, style K, straight, for heat shrinkable boot, shielded, sealed, self-locking for EN 3645 — Product standard*

EN 3660-064, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 064: Cable outlet, style K, straight, for heat shrinkable boot, shielded, sealed, self-locking for EN 2997 — Product standard*

EN 3660-065, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 065: Cable outlet, style K, 90°, for heat shrinkable boot, shielded, sealed, self-locking for EN 2997 — Product standard*

EN 3660-066, *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors — Part 066: Cable outlet, style K, 90°, for heat shrinkable boot, with braid termination outlet for EN 2997 — Product standard¹⁾*

EN 3682 (all parts), *Aerospace series — Connectors, plug and receptacle, electrical, rectangular, interchangeable insert type, rack to panel, operating temperature 150 °C continuous*

3 Index of product standards and associated connectors

Table 1 lists which cable outlet accessories apply to which type of connector.

Table 1 — Product standards and associated connectors

EN 3660-product standard	Description of product standard	Associated electrical connector(s) standard (main reference number)
003	Grommet nut, style A	EN 2997 and EN 3646
004	Cable outlet, style A, straight, unsealed with clamp strain relief	EN 2997 and EN 3646
005	Cable outlet, style A, 90°, unsealed with clamp strain relief	EN 2997 and EN 3646
006	Cable outlet, self-locking, style C, straight, shielded (cone grounding), unsealed with clamp strain relief	EN 2997 and EN 3646
007	Cable outlet, self-locking, style C, 90°, shielded (cone grounding), unsealed with clamp strain relief	EN 2997 and EN 3646
008	Cable outlet, self-locking, style C, 45°, shielded (cone grounding), unsealed with clamp strain relief	EN 2997 and EN 3646

EN 3660-product standard	Description of product standard	Associated electrical connector(s) standard (main reference number)
009	Cable outlet, style J, straight, sealed, for heat shrinkable boot	EN 2997 and EN 3646
010	Cable outlet, style K, straight, shielded, sealed, for heat shrinkable boot	EN 2997 and EN 3646
011	Cable outlet, style K, 90°, shielded, sealed, for heat shrinkable boot	EN 2997 and EN 3646
012	Grommet nut, style A	EN 3372
013	Cable outlet, style A, straight, unsealed, with cable tie strain relief	EN 3372
014	Cable outlet, style A, 90°, unsealed, with cable tie strain relief	EN 3372
015	Cable outlet, style A, 45°, unsealed, with cable tie strain relief	EN 3372
016	Grommet nut, style A, self-locking and non self-locking	EN 3645
017	Cable outlet, style A, straight, unsealed, with cable tie strain relief	EN 3645
018	Cable outlet, style A, 90°, unsealed, with cable tie strain relief	EN 3645
019	Cable outlet, style A, 45°, unsealed, with cable tie strain relief	EN 3645
020	Cable outlet, style A, straight, unsealed, with clamp strain relief	EN 3645
021	Cable outlet, style A, 90°, unsealed, self-locking, with clamp strain relief	EN 3645
022	Cable outlet, style A, straight, composite, unsealed, with cable tie strain relief	EN 2997 and EN 3646
023	Cable outlet, style A, 90°, composite, unsealed, with cable tie strain relief	EN 2997 and EN 3646
024	Grommet nut, style A, straight protection, composite	EN 2997 and EN 3646
025	Cable outlet, style A, straight, unsealed, with cable tie strain relief	EN 2997 and EN 3646
026	Cable outlet, style A, 90°, unsealed, with cable tie strain relief	EN 2997 and EN 3646
027	Cable outlet, style A, 45°, unsealed, with cable tie strain relief	EN 2997 and EN 3646
028	Cable outlet, style J, straight, for heat shrinkable boot	EN 3372
029	Cable outlet, style K, straight, for heat shrinkable boot, with braid termination outlet	EN 3372
030	Cable outlet, style K, 90°, for heat shrinkable boot, with braid termination outlet	EN 3372
031	Cable outlet, style J, straight, for heat shrinkable boot	EN 3645
032	Cable outlet, Style K, straight, for heat shrinkable boot, with braid termination outlet	EN 2997
033	Stainless steel banding band, style Z, for attachment of	VARIOUS

EN 3660-product standard	Description of product standard	Associated electrical connector(s) standard (main reference number)
	individual and/or overall screens to cable outlets	
034	Memory metal ring	VARIOUS
035	Cable outlet, style K, 90°, for heat shrinkable boot, with braid termination outlet	EN 3645
036	Spacer pad for cable outlet, style Z	VARIOUS
037	Bushing strip, elastomer, for cable outlet, style Z	EN 3660-020 and EN 3660-021
038	Manual installation tool, Style Z, for installation of stainless steel shield termination band EN 3660-033, to cable outlet accessories	VARIOUS
062	Cable outlet, style K, 90°, for heat shrinkable boot, shielded, sealed, self-locking	EN 3645
063	Cable outlet, style K, straight, for heat shrinkable boot, shielded, sealed, self-locking	EN 3645
064	Cable outlet, style K, straight, for heat shrinkable boot, shielded, sealed, self-locking	EN 2997 and EN 3646
065	Cable outlet, style K, 90°, for heat shrinkable boot, shielded, sealed, self-locking	EN 2997 and EN 3646
066	Cable outlet, Style K, 90°, for heat shrinkable boot, with braid termination outlet	EN 2997 and EN 3646
<p>^a These parts are used for various electrical connector standards, but only indirectly as reference in another EN 3660 series product standard.</p>		

British Standards Institution (BSI)

BSI is the national body responsible for preparing British Standards and other standards-related publications, information and services.

BSI is incorporated by Royal Charter. British Standards and other standardization products are published by BSI Standards Limited.

About us

We bring together business, industry, government, consumers, innovators and others to shape their combined experience and expertise into standards-based solutions.

The knowledge embodied in our standards has been carefully assembled in a dependable format and refined through our open consultation process. Organizations of all sizes and across all sectors choose standards to help them achieve their goals.

Information on standards

We can provide you with the knowledge that your organization needs to succeed. Find out more about British Standards by visiting our website at bsigroup.com/standards or contacting our Customer Services team or Knowledge Centre.

Buying standards

You can buy and download PDF versions of BSI publications, including British and adopted European and international standards, through our website at bsigroup.com/shop, where hard copies can also be purchased.

If you need international and foreign standards from other Standards Development Organizations, hard copies can be ordered from our Customer Services team.

Subscriptions

Our range of subscription services are designed to make using standards easier for you. For further information on our subscription products go to bsigroup.com/subscriptions.

With **British Standards Online (BSOL)** you'll have instant access to over 55,000 British and adopted European and international standards from your desktop. It's available 24/7 and is refreshed daily so you'll always be up to date.

You can keep in touch with standards developments and receive substantial discounts on the purchase price of standards, both in single copy and subscription format, by becoming a **BSI Subscribing Member**.

PLUS is an updating service exclusive to BSI Subscribing Members. You will automatically receive the latest hard copy of your standards when they're revised or replaced.

To find out more about becoming a BSI Subscribing Member and the benefits of membership, please visit bsigroup.com/shop.

With a **Multi-User Network Licence (MUNL)** you are able to host standards publications on your intranet. Licences can cover as few or as many users as you wish. With updates supplied as soon as they're available, you can be sure your documentation is current. For further information, email bsmusales@bsigroup.com.

BSI Group Headquarters

389 Chiswick High Road London W4 4AL UK

Revisions

Our British Standards and other publications are updated by amendment or revision.

We continually improve the quality of our products and services to benefit your business. If you find an inaccuracy or ambiguity within a British Standard or other BSI publication please inform the Knowledge Centre.

Copyright

All the data, software and documentation set out in all British Standards and other BSI publications are the property of and copyrighted by BSI, or some person or entity that owns copyright in the information used (such as the international standardization bodies) and has formally licensed such information to BSI for commercial publication and use. Except as permitted under the Copyright, Designs and Patents Act 1988 no extract may be reproduced, stored in a retrieval system or transmitted in any form or by any means – electronic, photocopying, recording or otherwise – without prior written permission from BSI. Details and advice can be obtained from the Copyright & Licensing Department.

Useful Contacts:

Customer Services

Tel: +44 845 086 9001

Email (orders): orders@bsigroup.com

Email (enquiries): cservices@bsigroup.com

Subscriptions

Tel: +44 845 086 9001

Email: subscriptions@bsigroup.com

Knowledge Centre

Tel: +44 20 8996 7004

Email: knowledgecentre@bsigroup.com

Copyright & Licensing

Tel: +44 20 8996 7070

Email: copyright@bsigroup.com



...making excellence a habit.™