
Irish Standard
I.S. EN 16602-70-26:2019

# Space product assurance - Crimping of high-reliability electrical connections

**I.S. EN 16602-70-26:2019**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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| *This document is based on:* | *Published:* |
|---|---|
| EN 16602-70-26:2019 | 2019-03-13 |

| *This document was published* under the authority of the NSAI and comes into effect on: | ICS number: |
|---|---|
| 2019-03-31 | 49.060<br>49.140<br><br>NOTE: If blank see CEN/CENELEC cover page |


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## National Foreword

I.S. EN 16602-70-26:2019 is the adopted Irish version of the European Document EN 16602-70-26:2019, Space product assurance - Crimping of high-reliability electrical connections

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

# EN 16602-70-26

March 2019

ICS 49.060; 49.140

Supersedes EN 16602-70-26:2014

English version

# Space product assurance - Crimping of high-reliability electrical connections

Assurance produit des projets spatiaux - Sertissage de connections électriques haute fiabilité

Raumfahrtproduktsicherung - Falten von hochzuverlässigen elektrischen Verbindungen

This European Standard was approved by CEN on 9 November 2018.



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Ref. No. EN 16602-70-26:2019 E

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# European Foreword

This document (EN 16602-70-26:2019) has been prepared by Technical Committee CEN-CENELEC/TC 5 “Space”, the secretariat of which is held by DIN.

This standard (EN 16602-70-26:2019) originates from ECSS-Q-ST-70-26C Rev.1.

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of an identical text or by endorsement, at the latest by September 2019, and conflicting national standards shall be withdrawn at the latest by September 2019.

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 EN16602-70-26:2014.

The main changes with respect to EN16602-70-26:2014 are listed below:

- Implementation of ECSS Change requests
- Several Figures replaced by new Figures
- Clause 3 "Terms, definitions and abbreviated terms" updated
- Nomenclature added as clause 3.4
- Titles of clauses 5.1.2.3, 5.2, 5.2.4, 5.2.5, 5.3, 5.3.2, 5.4.3.2, 5.4.3.3 changed
- Several changes in the Clause 5.3 “Requirements for crimp configuration qualification”
- Several changes in clause 5.4 “Test methods”
- Clause 5.5.2 “Personnel training and certification” updated
- Clause 5.5.4 “Visual inspection “updated
- Several changes in clause 5.5.5 “Shift performance inspection and test for harness manufacturing”
- Clause 5.5.9 "Special crimping activities at spacecraft level, modifications and repairs” added
- All Figures from Issue C replaced
- Annex A "Crimp configurations and tools" updated
- Annex B "Examples of typical ultimate axial strength" added

This document has been prepared under a standardization request given to CEN by the European Commission and the European Free Trade Association.

This document has been developed to cover specifically space systems and has therefore precedence over any EN covering the same scope but with a wider domain of applicability (e.g. : aerospace).

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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

# 1
# Scope

This Standard specifies:

- Requirements for the following crimping wire connections intended for high reliability electrical connections for use on spacecraft and associated equipment operating under high vacuum, thermal cycling and launch vibration:
  - — removable contacts, single wire
  - — removable contacts, multiple wires
  - — coaxial contacts, ferrules
  - — lugs and splices.

    NOTE These are the most commonly used crimping wire connections and are represented in Figure 1-1.
- The general conditions to be met for the approval of connections other than the above mentioned ones.

    NOTE Additional forms of crimps, not covered in this standard, are listed (not exhaustively) in the informative Annex A.
- Product assurance provisions for both the specific and the generic connections mentioned above.
- Training and certification requirements for operators and inspectors (clause 5.5.2), additional to those specified in ECSS-Q-ST-20.

This standard may be tailored for the specific characteristics and constraints of a space project, in conformance with ECSS-S-ST-00.