BS EN 13602:2013



BSI Standards Publication

Copper and copper alloys — Drawn, round copper wire for the manufacture of electrical conductors



...making excellence a habit.™

BS EN 13602:2013 BRITISH STANDARD

National foreword

This British Standard is the UK implementation of EN 13602:2013. It supersedes BS EN 13602:2002, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee NFE/34/1, Wrought and unwrought copper and copper alloys.

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 2013. Published by BSI Standards Limited 2013

ISBN 978 0 580 74204 0

ICS 29.060.10; 77.150.30

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 July 2013.

Amendments issued since publication

Date Text affected

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 13602

June 2013

ICS 77.150.30

Supersedes EN 13602:2002

English Version

Copper and copper alloys - Drawn, round copper wire for the manufacture of electrical conductors

Cuivre et alliages de cuivre - Fils ronds en cuivre étirés pour la fabrication des conducteurs électriques

Kupfer und Kupferlegierungen - Gezogener Runddraht aus Kupfer zur Herstellung elektrischer Leiter

This European Standard was approved by CEN on 25 April 2013.

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

Management Centre: Avenue Marnix 17, B-1000 Brussels

© 2013 CEN

All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

Ref. No. EN 13602:2013: E

This is a preview. Click here to purchase the full publication.

Contents Page Foreword4 Scope5 1 2 3 Terms and definitions6 4 Designations6 4.1 Material condition6 4.2 4.3 Ordering information......8 5 6 Requirements......9 6.1 Composition.....9 6.2 Mechanical properties......10 Electrical properties10 63 Dimensions10 6.4 Ductility......10 6.5 Surface condition10 6.6 Sampling......11 7 7.1 General11 7.2 Analysis11 Mechanical, electrical and tin coating tests11 7.3 8 Test methods11 Analysis11 8.1 8.2 Tensile test11 8.3 Electrical resistivity test12 8.4 8.5 Assessment of tin coatings......12 8.6 8.7 Rounding of results......12 9 9.1 Declaration of conformity13 92 Inspection documentation......13 10 Marking, packaging, labelling13 Annex A (informative) Characteristics of coppers for electrical purposes.20 General grouping of copper types.20 **A.1 A.2** General characteristics20 **A.3** Particular characteristics......20 Bibliography......22 **Tables** Table 2 — Composition of Cu-ETP (CW004A), Cu-FRHC (CW005A) and Cu-OF (CW008A).15 Table 3 — Mechanical properties of plain wire16