

Appliance couplers for household and similar purposes —

Part 2-1: Sewing machine couplers

The European Standard EN 60320-2-1:2000 has the status of a British Standard

ICS 29.120.30

National foreword

This British Standard is the official English language version of EN 60320-2-1:2000. It is identical with IEC 60320-2-1:2000. It supersedes BS 4491-2.1:1990 which is withdrawn.

The UK participation in its preparation was entrusted by Technical Committee PEL/23, Installed electrical accessories, to Subcommittee PEL/23/3, Connectors for portable appliances, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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

From 1 January 1997, all IEC publications have the number 60000 added to the old number. For instance, IEC 27-1 has been renumbered as IEC 60027-1. For a period of time during the change over from one numbering system to the other, publications may contain identifiers from both systems.

Cross-references

Attention is drawn to the fact that CEN and CENELEC Standards normally include an annex which lists normative references to international publications with their corresponding European publications. The British Standards which implement these international or European publications may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Find” facility of the BSI Standards Electronic Catalogue.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 11 and a back cover.

The BSI copyright notice displayed in this document indicates when the document was last issued.

This British Standard, having been prepared under the direction of the Electrotechnical Sector Committee, was published under the authority of the Standards Committee and comes into effect on 15 April 2001

© BSI 04-2001

ISBN 0 580 36904 8

Amendments issued since publication

Amd. No.	Date	Comments

English version

Appliance couplers for household and similar general purposes
Part 2-1: Sewing machine couplers
(IEC 60320-2-1:2000)

Connecteurs pour usages domestiques
et usages généraux analogues
Partie 2-1: Connecteurs pour machines
à coudre
(CEI 60320-2-1:2000)

Gerätesteckvorrichtungen für den
Hausgebrauch und ähnliche allgemeine
Zwecke
Teil 2-1: Nähmaschinen-
Steckvorrichtungen
(IEC 60320-2-1:2000)

This European Standard was approved by CENELEC on 2000-09-01. CENELEC 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 Central Secretariat or to any CENELEC 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 CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 23G/203/FDIS, future edition 2 of IEC 60320-2-1, prepared by SC 23G, Appliance couplers, of IEC TC 23, Electrical accessories, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60320-2-1 on 2000-09-01.

This European Standard supersedes EN 60320-2-1:1987.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2001-06-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2003-09-01

This part 2-1 is to be used in conjunction with EN 60320-1:1996 + A1:1996 + A2:1998, Appliance couplers for household and similar general purposes, Part 1: General requirements.

This part 2-1 supplements or modifies the corresponding clauses of EN 60320-1.

Where a particular clause or subclause of part 1 is not mentioned in this part 2-1, that clause or subclause applies as far as is reasonable. Where this part 2-1 states "addition", "modification" or "replacement", the relevant text of part 1 is to be adapted accordingly.

Subclauses which are additional to those in part 1 are numbered starting from 101.

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60320-2-1:2000 was approved by CENELEC as a European Standard without any modification.

CONTENTS

	Page
INTRODUCTION	4
Clause	
1 Scope	5
2 Normative references	5
3 Definitions	5
4 General requirements	6
5 General notes on tests	6
6 Standard ratings	6
7 Classification	6
8 Marking	6
9 Dimensions and compatibility	6
10 Protection against electric shock	7
11 Provision for earthing	7
12 Terminals and terminations	7
13 Construction	8
14 Moisture resistance	8
15 Insulation resistance and electric strength	8
16 Forces necessary to insert and to withdraw the connector	8
17 Operation of contacts	8
18 Resistance to heating of appliance couplers for hot conditions or very hot conditions	8
19 Breaking capacity	8
20 Normal operation	9
21 Temperature rise	9
22 Cords and their connection	9
23 Mechanical strength	9
24 Resistance to heat and ageing	10
25 Screws, current-carrying parts and connections	10
26 Creepage distances, clearances and distances through insulation	10
27 Resistance of insulating material to heat, fire and tracking	10
28 Resistance to rusting	10
29 Electromagnetic compatibility (EMC) requirements	10
Annex A Routine tests for factory wired appliance couplers related to safety (protection against electric shock and correct polarity)	10
Annex ZA (normative) Normative references to international publications with their corresponding European publications	11