

Hearing aids

Part 12. Dimensions of electrical connector systems

The European Standard EN 60118-12 : 1996 has the status of a
British Standard

ICS 17.140.50

National foreword

This British Standard is the English language version of EN 60118-12 : 1996. It is identical with IEC 60118-12 : 1996. It supersedes BS 2813 Specification for dimensions of plugs for hearing aids : 1981 which will be withdrawn on 1997-07-01.

The UK participation in its preparation was entrusted to Technical Committee EPL/29, Electroacoustics, 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.

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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 using the 'Find' facility of the BSI Standards Electronic Catalogue.

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 17, a blank page, an inside back cover and a back cover.

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English version

Hearing aids
Part 12: Dimensions of electrical connector systems
(IEC 118-12:1996)

Appareils de correction auditive
Partie 12: Dimensions des connecteurs
électriques
(CEI 118-12:1996)

Hörgeräte
Teil 12: Maße elektrischer
Steckverbindersysteme
(IEC 118-12:1996)

This European Standard was approved by CENELEC on 1996-10-01. 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.

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CENELEC

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

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Foreword

The text of document 29/330/FDIS, future edition 1 of IEC 118-12, prepared by IEC TC 29, Electroacoustics, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60118-12 on 1996-10-01.

This European Standard supersedes HD 304 S1:1977.

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) 1997-07-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 1997-07-01

Endorsement notice

The text of the International Standard IEC 118-12:1996 was approved by CENELEC as a European Standard without any modification.

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HEARING AIDS –

Part 12: Dimensions of electrical connector systems

1 Scope

This International Standard applies to plugs and connector systems for hearing aids and specifies the dimensions and their tolerances essential for ensuring interchangeability.

2 Overview of connector systems

Table 1 – Overview of connector systems

System	Application	Dimensions (see table)	Figure
Rectangular connector system			
– Two-terminal polarized plug	Earphones	2	1
– Three-terminal unpolarized plug	Earphones	2	2
– Three-terminal polarized plug	Electrical input	2	3
Circular connector system			
– Three-terminal plug	See Annex A	3	4
– Three-terminal socket	See Annex A	4	7
– Four-terminal plug	See Annex A	3	5
– Four-terminal socket	See Annex A	4	8
– Five-terminal plug	See Annex A	3	6
– Five-terminal socket	See Annex A	4	9

Tableau 2 – Dimensions des prises illustrées par les figures 1, 2 et 3

Table 2 – Dimensions of plugs shown in figures 1, 2 and 3

Ref.	Min.	Nom.	Max.	Notes
A	3,45	3,50	3,55	5
B	1,56	1,58	1,60	1,5
C	1,26	1,28	1,30	1,5
D	1,16	1,18	1,20	1,5
E	4,15	4,20	4,25	5
F	0,10	0,12	0,14	5
G	2,00	2,05	2,10	4,5
H	1,90	1,90	2,00	5
K	–	–	1,90	5
L	–	–	1,70	2,5
M	2,50	–	–	2,5
N	–	–	0,04	3,5
P	–	–	0,30	1,5
Q	5,70	5,90	6	4,5
R	0,42	0,45	0,48	5
α	35	35	37	6

NOTES 1 Les broches sont cylindriques avec des terminaisons coniques; en conséquence, les dimensions B, C, D et P correspondent aux diamètres. 2 Les distances entre les faces du corps de la prise et les centres des broches extrêmes ne doivent pas dépasser les valeurs indiquées K et L pour la partie correspondant à la cote M. Au-delà de cette cote, ces dimensions ne sont pas limitées. 3 Tout écart de la position de chacun des centres des broches par rapport à la ligne médiane commune doit rester dans les limites de la valeur indiquée N. Les distances entre la broche centrale et chacune des broches extrêmes ne doivent pas différer entre elles de plus que la valeur indiquée N. 4 Lorsqu'un dispositif d'étanchéité doit être utilisé avec une prise, les dimensions G et Q doivent être mesurées jusqu'à la surface frontale du dispositif d'étanchéité comprimé, de façon que les gorges se trouvent placées dans une position où l'action de détente est correcte. Lorsqu'il est entendu qu'un dispositif d'étanchéité est utilisé, ce dispositif doit être fourni en tant qu'élément de la prise. 5 Dimensions en millimètres. 6 Angle en degrés.	NOTES 1 The pins are cylindrical with conical ends; therefore dimensions B, C, D and P are diameters. 2 The distances between the face of the plug body and the centre lines of the outer pins shall not exceed the indicated values K and L within the portion designated by dimension M. Beyond M, these dimensions are not limited. 3 Any deviation of the position of each of the centres of the pins away from their common centre line shall be within the indicated value N. The distances between the centre pin and each of the two outer pins, shall not differ more than the indicated value N. 4 When a sealing device is to be used with a plug, dimensions G and Q are to be measured to the face of the compressed device in order to place the grooves in position for correct detent action. When it is intended that a sealing device be used, it shall be supplied as part of the plug. 5 Dimensions in millimetres. 6 Angle in degrees.
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