

**Radio-frequency
connectors —
RF coaxial connectors
with inner diameter of
outer conductor 6,5 mm
(0,256 in) with bayonet
lock —
Characteristic
impedance 50 ohms
(Type BNC)**

ICS 33.120.30

Committees responsible for this British Standard

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- BEAMA Electrical Cable and Conductor Accessory Manufacturers
- British Non-Ferrous Metals Federation
- British Telecommunications plc
- Federation of the Electronics Industry
- Ministry of Defence
- National Supervisory Inspectorate
- Society of Cable Television Engineers

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National foreword

This British Standard has been prepared by Subcommittee EPL/46/2 and is identical with IEC 169-8:1978 *Radio-frequency connectors — Part 8: R.F. coaxial connectors with inner diameter of outer conductor 6.5 mm (0.256 in) with bayonet lock — Characteristic impedance 50 ohms (Type BNC)*, including Amendments 1:1996 and 2:1997, published by the International Electrotechnical Commission (IEC). IEC 169-8, also designated QC 221200, is a harmonized specification within the IEC Q system for electronic components of assessed quality.

For ease of reproduction some of the text of the French version of the International Standard has been retained. References to IEC page numbers in the text should be ignored.

Cross-references

Publication referred to ^a	Corresponding British Standard
IEC 68	BS EN 60068 <i>Environmental testing</i>
IEC 68-2	BS EN 60068-2 <i>Test methods</i>
IEC 68-2-1:1990	BS EN 60068-2-1:1993 <i>Tests A. Cold</i>
IEC 68-2-2:1974	BS EN 60068-2-2:1993 <i>Tests B. Dry heat</i> BS 2011 <i>Environmental testing</i> Part 2.1 <i>Tests</i>
IEC 68-2-3	Part 2.1Ca:1977 <i>Test Ca. Damp heat, steady state</i>
IEC 68-2-11	Part 2.1 Ka:1982 <i>Test Ka. Salt mist</i>
IEC 68-2-13:1983	Part 2.1M:1984 <i>Test M. Low air pressure</i>
IEC 68-2-14	Part 2.1N:1985 <i>Test N. Change of temperature</i>
IEC 68-2-20	Part 2.1T:1981 <i>Test T. Soldering</i> BS 3041 <i>Radio-frequency connectors</i>
IEC 169-1	Part 1:1977 <i>Specification for general requirements and measuring methods</i> BS EN 61169 <i>Radio-frequency connectors</i>
IEC 1169-1 (QC 220000)	Part 1:1996 <i>Generic specification. General requirements and measuring methods</i>

^a Undated in text.

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.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 48, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

1 Scope

This standard concerns patterns for r.f. coaxial connectors which may preferably be used with r.f. cables 96 IEC 50-3 of IEC Publication 96-2, Radio-frequency Cables, Part 2: Relevant Cable Specifications.

These connector patterns are for low power, quick connect/disconnect applications using a bayonet type coupling mechanism and are commonly known as Type “BNC”.

2 IEC type designation

Connectors of this standard shall be designated by:

- a) the reference to this standard, 169-8 IEC;
- b) a serial number (see Clause 7);
- c) a letter corresponding to the climatic category (see Clause 4).

Example

169-8 IEC-1A denotes a free pin connector belonging to climatic category 40/85/21 to be used with an r.f. coaxial cable 96 IEC 50-3-1/3/4.

NOTE The type designation used in this standard is provisional. A final type designation is under consideration.

3 Ratings

This standard specifies pin and socket connectors with bayonet lock with a nominal inner diameter of the outer conductor of 6.5 mm (0.256 in). Cable mounting connectors will function within specification requirements with 3 mm cables up to a frequency of at least 3 GHz, and may be used at higher frequencies if a reflection coefficient greater than 0.1 can be tolerated for straight connectors and 0.13 for right angle styles.

The connectors have a maximum working voltage of 500 V at sea level (125 V at 44 mbar/20 000 m altitude). Connection to the cable may be made either by crimping or soldering, depending upon design.

NOTE 1 Patterns for crimping are under consideration.

Certain connectors have both barrier and panel seals.

NOTE 2 All voltages specified in this standard are r.m.s. values of a.c. voltages. All test voltages are a.c. voltages of 50 Hz to 60 Hz.

4 Preferred climatic categories (see IEC Publication 68: Basic Environmental Testing Procedures)

Category	Designation letter ^a	Temperature range	Damp heat, steady state
40/85/21	A	– 40 °C to + 85 °C	21 days
40/155/21	B	– 40 °C to + 155 °C	21 days
55/155/56	C	– 55 °C to + 155 °C	56 days
^a To be included in the IEC type designation (see Clause 2).			

5 Dimensions — Connecteurs d'usage général

Les dimensions en inches sont les dimensions originales. Toutes les représentations non cotées sont données pour référence uniquement.

5.1 Connecteur mâle

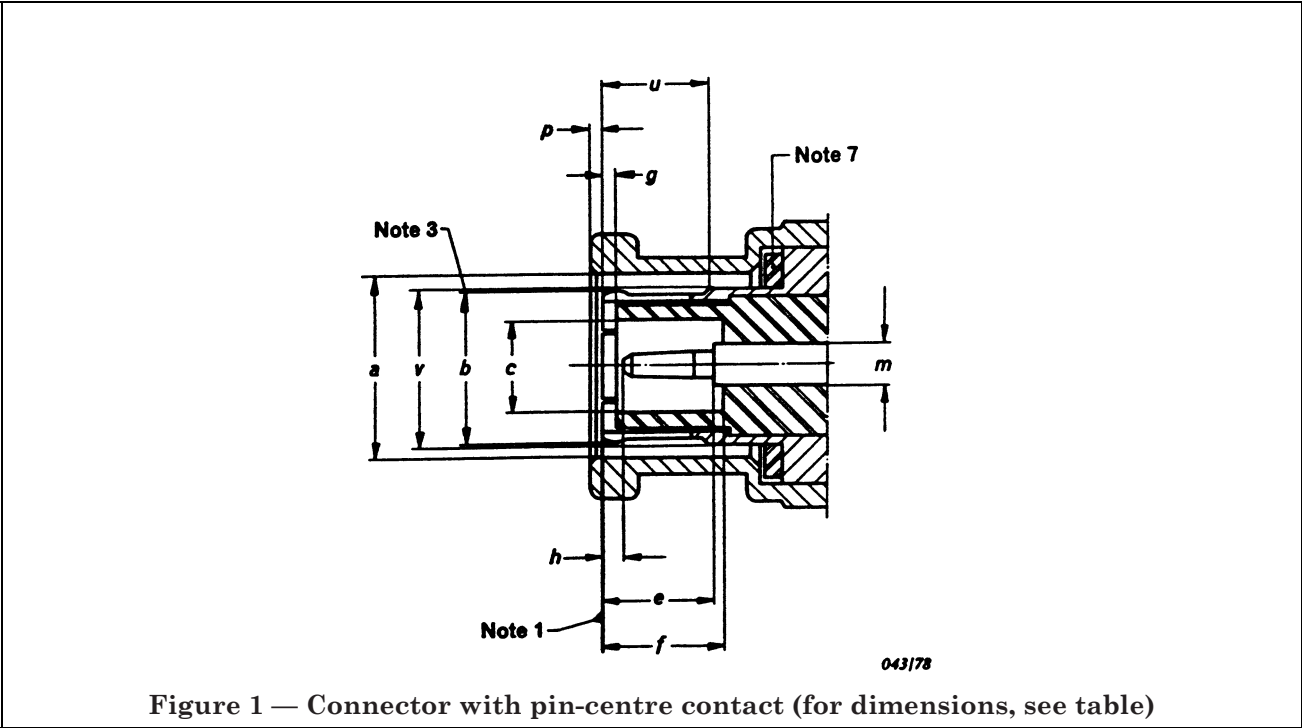


Figure 1 — Connector with pin-centre contact (for dimensions, see table)

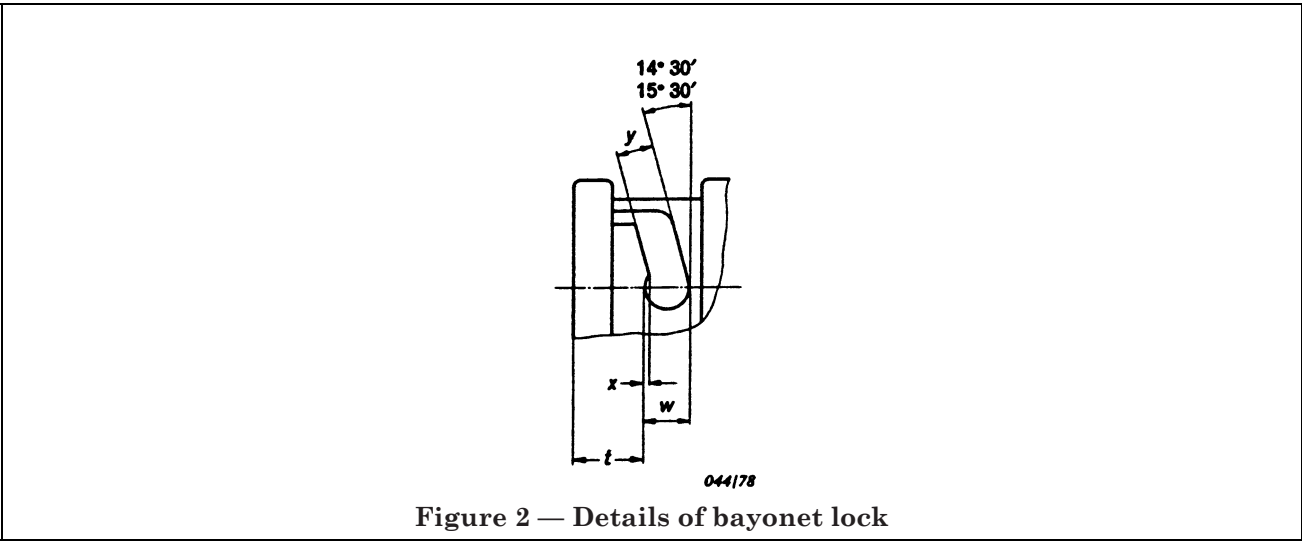


Figure 2 — Details of bayonet lock

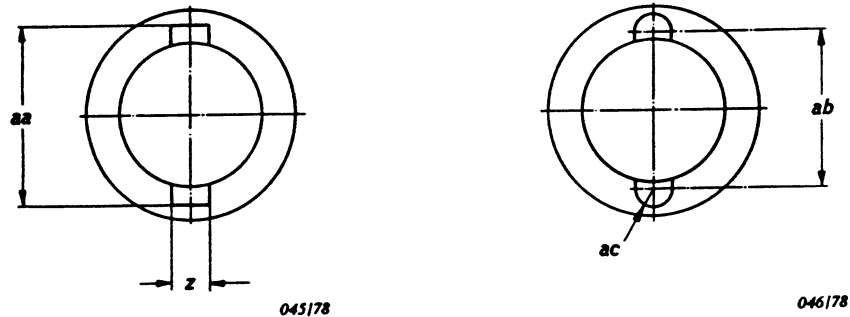


Figure 3/4 — Details of alternative coupling grooves

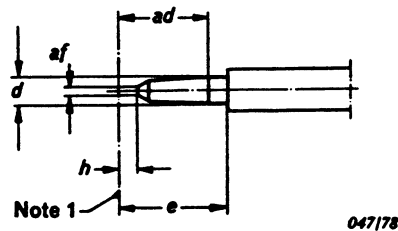


Figure 5 — Details of pin-centre contact

Réf. Ref.	mm		inch		Note
	Min.	Max.	Min.	Max.	
a	9,78	9,91	0,385	0,390	9/diam.
b	—	—	—	—	3/9/diam.
c	4,83	—	0,190	—	9/diam.
d	1,32	1,37	0,052	0,054	9/diam.
e	5,33	—	0,210	—	
f	5,28	—	0,208	—	
g	0,15	—	0,006	—	
h	0,35	—	0,014	—	
m		2,140 nom.		0,0842 nom.	diam.
p		1,44 nom.		0,057 nom.	10
t	4,57	4,67	0,180	0,184	
u	5,38	—	0,212	—	
v	—	8,18	—	0,322	9/diam.
w	3,15	—	0,124	—	
x	0,46	0,56	0,018	0,022	
y	2,31	—	0,091	—	
z	2,31	—	0,091	—	6
aa	11,76	—	0,463	—	6
ab		10,14 nom.		0,399 nom.	6
ac	1,14	—	0,045	—	6/rad.
ad	1,96	3,05	0,077	0,120	
af	—	0,64	—	0,025	

NOTE 1 Plan de référence mécanique et électrique.

NOTE 3 Fendu et évasé pour satisfaire à l'essai avec calibre selon le paragraphe 6.1.1.

NOTE 6 On peut utiliser soit la Figure 3, soit la Figure 4.

NOTE 7 Joint d'étanchéité pour satisfaire aux conditions d'environnement demandées.

NOTE 9 Les diamètres doivent être calibrés pour s'assurer que sur MMC chaque partie est ou peut être coaxiale.

NOTE 10 Cette dimension montre la position quand le manchon à baïonnette est encliqueté.

5.2 Connecteur femelle

NOTE 1 Mechanical and electrical reference plane.

NOTE 3 Slotted and flared to meet gauge test according to Sub-clause 6.1.1.

NOTE 6 It is permitted to use either Figure 3 or Figure 4.

NOTE 7 Sealing gasket to meet required electrical and environmental performance.

NOTE 9 Diameters shall be gauged to ensure that on MMC each feature is on or can take up a common axis.

NOTE 10 This dimension shows the position when the bayonet sleeve is locked.

5.2 Socket connector

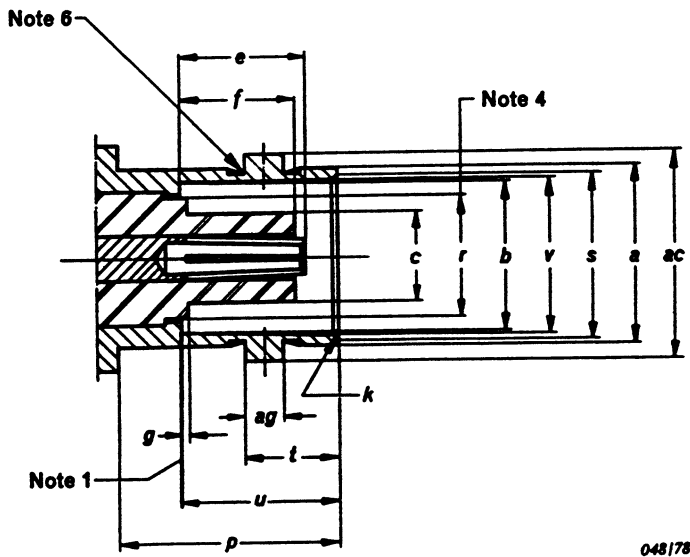


Figure 6 — Connector with socket-centre contact (for dimensions, see table)

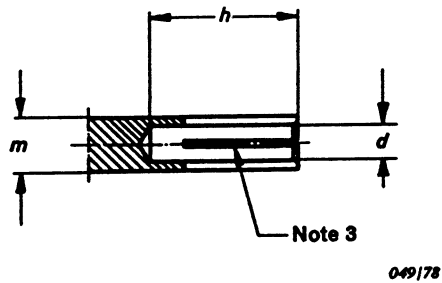


Figure 7 — Details of socket-centre contact

Réf. Ref.	mm		inch		Note
	Min.	Max.	Min.	Max.	
<i>a</i>	9,60	9,70	0,378	0,382	9/diam.
<i>b</i>	8,10	8,15	0,319	0,321	9/diam.
<i>c</i>	—	4,72	—	0,186	9/diam.
<i>d</i>	—	—	—	—	3/9/diam.
<i>e</i>	4,55	5,23	0,179	0,206	
<i>f</i>	—	5,28	—	0,208	
<i>g</i>	—	0,15	—	0,006	
<i>h</i>	4,95	—	0,195	—	
<i>k</i>	—	—	—	—	8
<i>m</i>	2,140 nom.		0,0842 nom.		diam.
<i>p</i>	10,52	—	0,414	—	
<i>r</i>	—	6,50	—	0,256	4/diam.
<i>s</i>	8,79	9,04	0,346	0,356	diam.
<i>t</i>	5,18	5,28	0,204	0,208	
<i>u</i>	8,31	8,51	0,327	0,335	
<i>v</i>	8,31	8,46	0,327	0,333	9/diam.
<i>ac</i>	10,97	11,07	0,432	0,436	9
<i>ag</i>	1,91	2,05	0,075	0,081	diam.

NOTE 1 Plan de référence mécanique et électrique.

NOTE 3 Fendu et resserré pour satisfaire aux prescriptions du paragraphe 6.1.2.

NOTE 4 Applicable seulement lorsque l'isolant dépasse le plan de référence.

NOTE 6 Un creux entre les ergots est toléré.

NOTE 8 Chanfrein ou rayon.

NOTE 9 Les diamètres doivent être calibrés afin de s'assurer que sur MMC chaque partie est ou peut être coaxiale.

NOTE 1 Mechanical and electric reference plane.

NOTE 3 Slotted and closed to meet requirements of Sub-clause 6.1.2.

NOTE 4 Applies only when dielectric extends beyond reference plane.

NOTE 6 A concave depression between studs is permissible.

NOTE 8 Chamfer or radius.

NOTE 9 Diameters shall be gauged to ensure that on MMC each feature is on or can take up a common axis.

6 Calibres et connecteurs de référence

6.1 Calibres mécaniques

6.1.1 Connecteurs avec contact central mâle

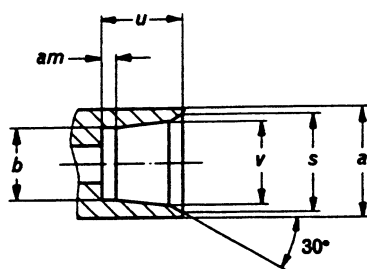
6.1.1.1 Calibre pour contact extérieur du connecteur mâle

6 Gauges and standard test connectors

6.1 Mechanical gauges

6.1.1 Connectors with pin centre contact

6.1.1.1 Gauge for outer contact of pin connector



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Figure 8 — Gauge for outer contact of pin connector

Calibre A (pour calibrage) Gauge A (for sizing purposes)					Calibre B (pour mesure de la force de rétention du calibre pour le conducteur extérieur) Masse (poids) du calibre: 225 ± 5 g Gauge B (for measurement of gauge retention force for outer conductor) Mass (weight) of gauge: 225 ± 5 g			
Réf. Ref.	mm		inch		mm		in	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
$a \phi$	9,63	9,68	0,379	0,381	9,63	9,68	0,379	0,381
$b \phi$	8,08	8,10	0,318	0,319	8,15	8,18	0,321	0,322
u	8,41	8,46	0,331	0,333	8,36	8,41	0,329	0,331
$v \phi$	8,31	8,36	0,327	0,329	8,41	8,46	0,331	0,333
$s \phi$	8,79 nom.		0,346 nom.		8,79 nom.		0,346 nom.	
am	4 nom.		0,157 nom.		4 nom.		0,157 nom.	
Matériau: acier poli; rugosité: Ra = 0,4 μm (16 μin) max.								
Material: steel, polished; surface roughness: Ra = 0.4 μm (16 μin) max.								

6.1.1.2 Séquence d'essai

Le calibre A doit être placé une fois sur le contact électrique extérieur du connecteur. C'est une opération de calibrage et il convient de l'effectuer quand l'isolant est retiré du connecteur.

Le calibre B doit ensuite être placé sur le contact extérieur en position verticale. Le calibre doit être retenu.

Cet essai peut aussi être effectué sur les connecteurs lorsque l'isolant n'est pas retiré.

6.1.2 Connecteurs avec contact central femelle

6.1.2.1 Calibre mâle pour contact central femelle

6.1.1.2 Test sequence

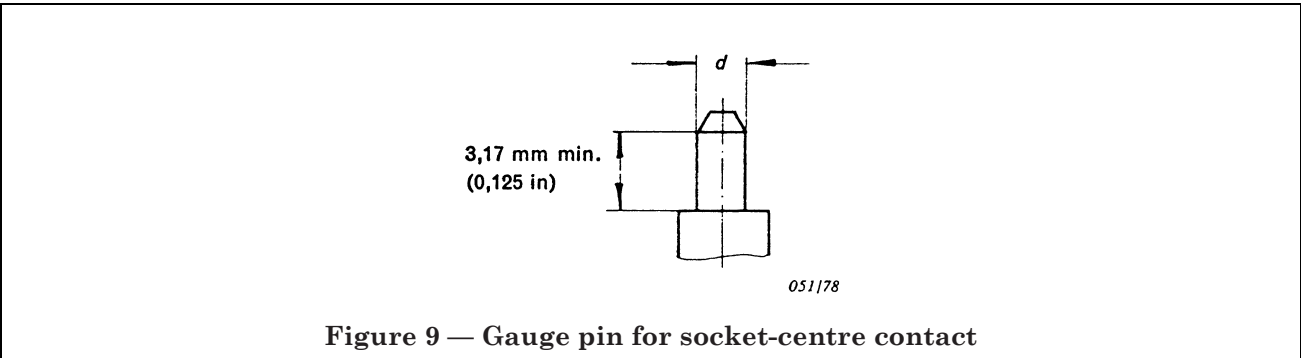
Gauge A shall be placed over the outer electrical contact of the connector once. This is a sizing operation and should be carried out when the insulator is removed from the connector.

After this the gauge B shall be placed over the outer contact in a vertical position. The gauge shall be retained.

This test can also be carried out on connectors when the insulator is not removed.

6.1.2 Connectors with socket-centre contact

6.1.2.1 Gauge pin for socket-centre contact



Calibre C (pour calibrage) Gauge C (for sizing purposes)					Calibre D (pour mesure de la force de rétention du calibre pour le conducteur intérieur) Masse (poids) du calibre: 57 ± 1 g Gauge D (for measurement of gauge retention force for inner conductor) Mass (weight) of gauge: 57 ± 1 g			
Réf. Ref.	mm		inch		mm		inch	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
$D \phi$	1,372	1,377	0,0540	0,0542	1,308	1,321	0,0515	0,0520
Matériau: acier poli; rugosité: $R_a = 0,4 \mu\text{m}$ ($16 \mu\text{in}$) max. Material: steel, polished; surface roughness: $R_a = 0.4 \mu\text{m}$ ($16 \mu\text{in}$) max.								

6.1.2.2 Séquence d'essai

Un calibre C mâle doit être introduit une fois dans le contact central sur une distance minimale de 3,17 mm (0,125 in). C'est une opération de calibrage et il convient de l'effectuer lorsque l'isolant est retiré du connecteur.

Le calibre D est ensuite introduit en position verticale. Le calibre doit être retenu.

Cet essai peut également être effectué sur les connecteurs lorsque l'isolant n'est pas retiré.

6.2 Force d'accouplement et de désaccouplement pour les connecteurs mâles

6.2.1 Calibre pour les contacts extérieurs, mécanisme d'accouplement et dimensions de la face d'accouplement

6.1.2.2 Test sequence

A test pin gauge C shall be inserted into the centre contact a minimum distance of 3.17 mm (0.125 in) once. This is a sizing operation and should be carried out when the insulator is removed from the connector.

After this the gauge D shall be inserted in the vertical position. The gauge shall be retained.

This test can also be carried out on connectors when the insulator is not removed.

6.2 Force to engage and disengage for pin connectors

6.2.1 Gauge for outer contacts, coupling mechanism and mating face dimensions

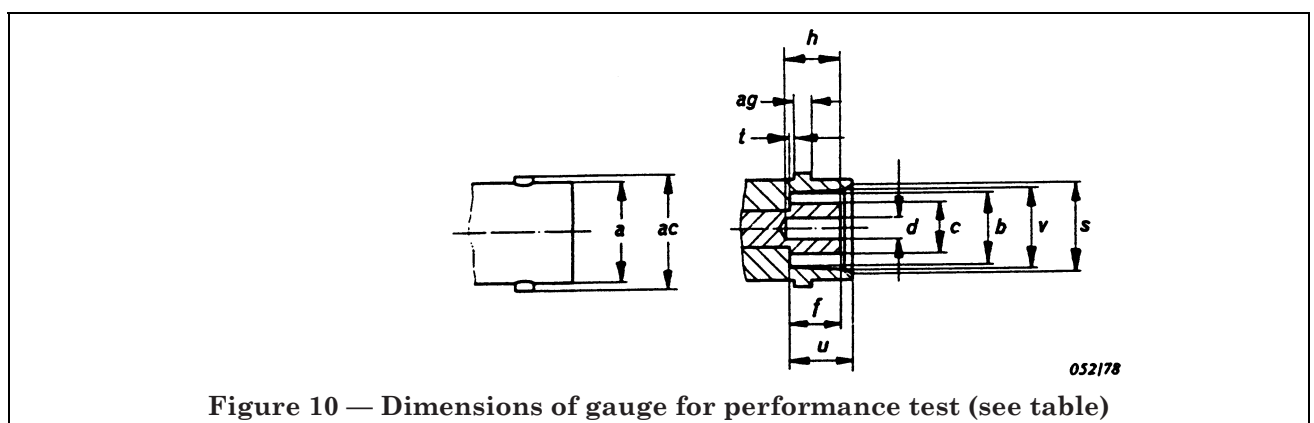


Figure 10 — Dimensions of gauge for performance test (see table)

Une face d'accouplement normalisée en acier doit être faite comme le montre la Figure 10 pour le connecteur; elle doit avoir une rugosité maximale de $0,4 \mu\text{m}$ ($16 \mu\text{in}$). La force longitudinale pour accoupler et désaccoupler un connecteur mâle ne doit pas dépasser 20 N.

Le couple pour verrouiller et déverrouiller le système à baïonnette du connecteur mâle ne doit pas dépasser 0,25 Nm.

A steel standard mating part shall be constructed as shown in Figure 10 for the connector and shall have a $0.4 \mu\text{m}$ ($16 \mu\text{in}$) maximum finish. The longitudinal force required to engage or disengage a pin connector shall not exceed 20 N.

The torque required to engage or disengage the bayonet lock of the pin connector shall not exceed 0.25 Nm.

Réf. Ref.	mm		in		Note
	Min.	Max.	Min.	Max.	
a	9,627	9,677	0,379	0,381	diam.
b	8,10	8,128	0,319	0,320	diam.
c	4,67	4,72	0,184	0,186	diam.
d	1,42	—	0,056	—	diam.
f	5,21	5,28	0,205	0,208	
h	4,95	—	0,195	—	
s	8,79	8,865	0,346	0,349	diam.
t	2,870	3,142	0,113	0,124	
u	8,41	8,46	0,331	0,333	
v	8,30	8,382	0,327	0,330	diam.
ac	11,024	11,074	0,434	0,436	diam.
ag	1,98	2,03	0,078	0,080	

6.3 Connecteurs d'essai de référence

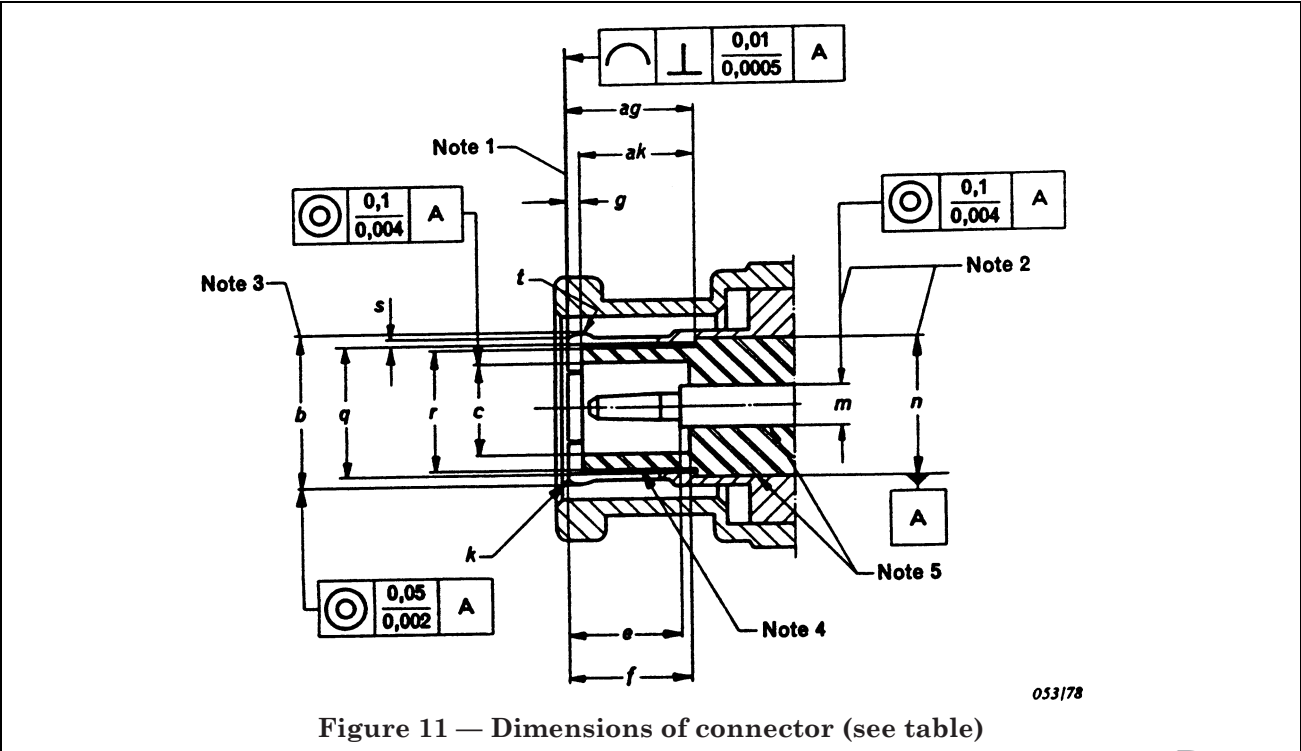
Les connecteurs d'essai de référence sont principalement utilisés comme faisant partie du raccordement à l'équipement de mesure pour effectuer la mesure du coefficient de réflexion selon le paragraphe 14.1 de la Publication 169-1 de la CEI: Connecteurs pour fréquences radioélectriques, Première partie: Règles générales et méthodes de mesure.

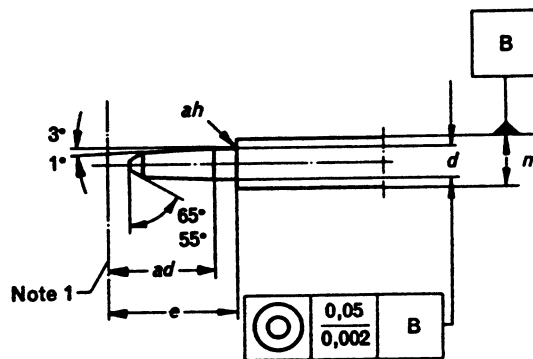
6.3.1 Connecteur d'essai de référence avec contact mâle

6.3 Standard test connectors

Standard test connectors are mainly used as part of the adaptor to the measuring equipment to carry out reflection coefficient measurement according to Sub-clause 14.1 of IEC Publication 169-1. Radio-frequency Connectors, Part 1: General Requirements and Measuring Methods.

6.3.1 Standard test connector with pin contact





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Figure 12 — Dimensions of centre contact (see table)

Réf. Ref.	mm		in		Note
	Min.	Max.	Min.	Max.	
<i>b</i>	8,10	8,15	0,319	0,321	3/diam.
<i>c</i>	4,88	4,93	0,192	0,194	diam.
<i>d</i>	1,35	1,37	0,0530	0,0541	diam.
<i>e</i>	5,31	5,38	0,209	0,212	
<i>f</i>	5,38	5,54	0,212	0,218	
<i>g</i>	0,15	0,30	0,006	0,012	
<i>k</i>	0,13	0,20	0,005	0,008	rad.
<i>m</i>	2,13	2,15	0,0837	0,0847	2/diam.
<i>n</i>	6,99	7,01	0,2752	0,2760	2/diam.
<i>q</i>	6,72	6,74	0,2645	0,2655	diam.
<i>r</i>	6,60	6,65	0,260	0,262	diam.
<i>s</i>	0,30	—	0,012	—	plat/flat
<i>t</i>	—	0,89	—	0,035	rad.
<i>ad</i>	3,66	3,98	0,144	0,157	
<i>ag</i>	5,31	5,36	0,209	0,211	
<i>ah</i>	—	0,13	—	0,005	rad.
<i>ak</i>	5,16 nom.		0,203 nom.		

Dimensions du système de verrouillage à baïonnette, voir paragraphe 5.1, Figure 2, Figure 3 et Figure 4, pages 2 et 3.
 Dimensions of bayonet lock system, see Sub-clause 5.1, Figure 2, Figure 3 and Figure 4, pages 2 and 3.

NOTE 1 Plan de référence mécanique et électrique.
Perpendiculaire à l'axe à 0,01 mm (0,0005 in).

NOTE 2 Ces diamètres sont donnés pour un isolant en PTFE dont la constante diélectrique est 2,02. L'impédance caractéristique de la ligne de transmission déterminée par les diamètres "m" et "n" doit être de 50 ± 0,2 Ω.

NOTE 3 Dimensions avant formation des fentes:
six fentes à 60 ± 1° les unes des autres,
largeur 0,36–0,41 mm (0,014–0,016 in),
profondeur 5,84–6,10 mm (0,230–0,240 in).
Après formation de la fente et évasement le diamètre intérieur du contact extérieur doit être compris entre 6,718 mm et 6,744 mm (0,2645 in et 0,2655 in) lorsque son diamètre est engagé dans un calibre annulaire de diamètre intérieur de 8,125 mm à 8,131 mm (0,3199 in à 0,3201 in).

NOTE 4 Pour un jeu radial concentrique de 0,05 mm (0,002 in) lorsque le contact est engagé dans un calibre annulaire de diamètre intérieur de 8,125 mm à 8,131 mm (0,3199 in à 0,3201 in).

NOTE 5 Jeu nul.

6.3.2 Connecteur d'essai de référence avec contact femelle

NOTE 1 Mechanical and electrical reference plane.
Right-angled to the axis 0.01 mm (0.0005 in).

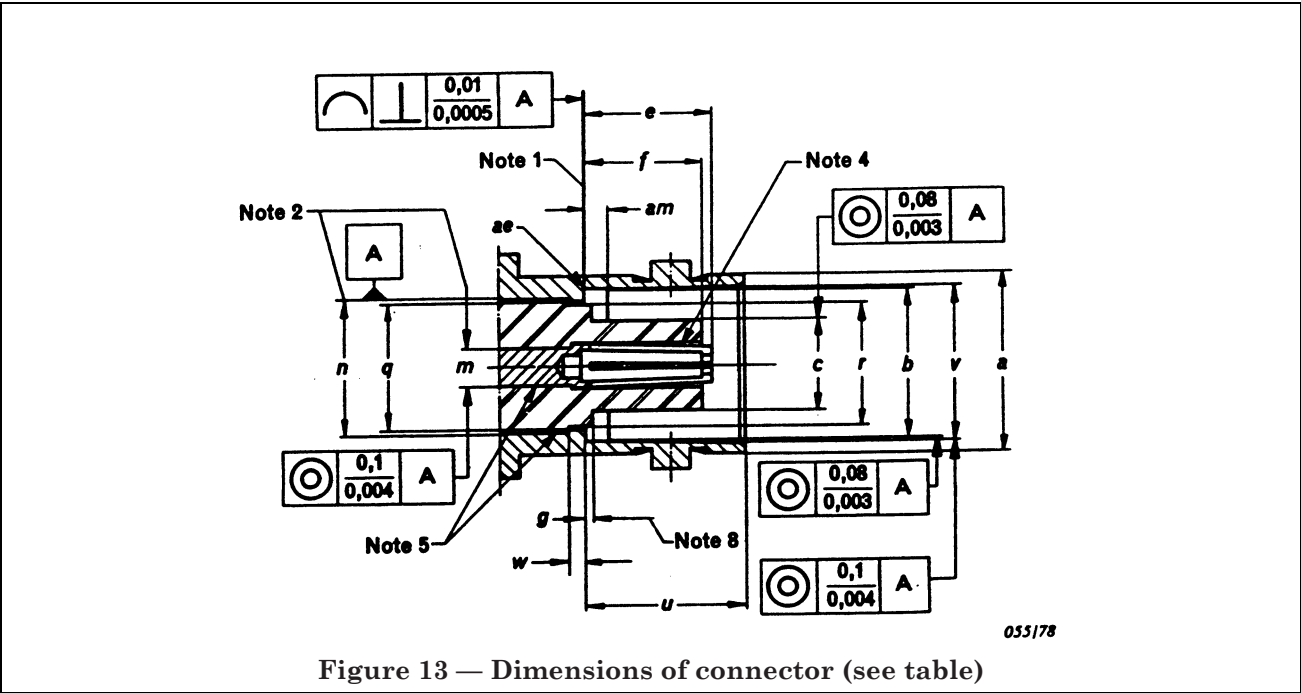
NOTE 2 These diameters are for PTFE insulation with dielectric constant 2.02. Characteristic impedance of transmission line determined by diameters "m" and "n" shall be 50 ± 0.2 Ω.

NOTE 3 Dimensions before slotting:
six slots spaced 60 ± 1° apart,
0.36–0.41 mm (0.014–0.016 in) wide,
5.84–6.10 mm (0.230–0.240 in) deep.
After slotting and flaring the ID of the outer contact must be 6.718 mm to 6.744 mm (0.2645 in to 0.2655 in) when the OD of the outer contact is inserted into a ring gauge with an ID of 8.125 mm to 8.131 mm (0.3199 in to 0.3201 in).

NOTE 4 If concentric, radial air gap 0.05 mm (0.002 in) nom. when contact is inserted into a ring gauge with an ID of 8.125 mm to 8.131 mm (0.3199 in to 0.3201 in).

NOTE 5 Zero air gap.

6.3.2 Standard test connector with socket contact



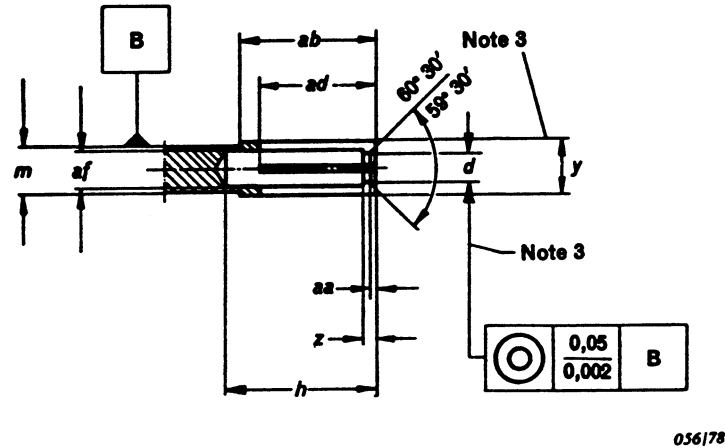


Figure 14 — Dimensions of centre contact (see table)

Réf. Ref.	mm		in		Note
	Min.	Max.	Min.	Max.	
a	9,60	9,68	0,378	0,381	diam.
b	8,10	8,15	0,319	0,321	diam.
c	4,67	4,72	0,184	0,186	diam.
d	1,356	1,361	0,0534	0,0536	3/diam.
e	5,21	5,28	0,205	0,208	
f	5,08	5,23	0,200	0,206	
g	0,0	0,15	0,00	0,006	8
h	5,21	—	0,205	—	
m	2,13	2,15	0,0837	0,0847	2/diam.
n	6,99	7,01	0,2752	0,2760	2/diam.
q	6,71	6,76	0,264	0,266	diam.
r	6,58	6,68	0,259	0,263	diam.
u	8,36	8,46	0,329	0,333	
v	8,31	8,46	0,327	0,333	diam.
w	0,79	0,84	0,031	0,033	
y	2,16	2,18	0,0852	0,0859	3/diam.
z	0,38	0,89	0,015	0,035	
aa	0,05	0,2	0,002	0,008	
ab	6,05	6,10	0,238	0,240	
ad	4,62	4,88	0,182	0,192	
ae	—	0,1	—	0,004	rad.
af	1,52	1,63	0,060	0,064	diam.
am	0,51	1,02	0,020	0,040	
Pour les dimensions non données dans ce tableau, voir le paragraphe 5.2. For dimensions not given in this table, see Sub-clause 5.2.					