

SPECIFICATION S 1550

FOR

DISKS TEST NO 9

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1. GENERAL

1.1 This specification details the requirements for Disks Test No 9 which are used for checking and recalibrating the validator of the Coin Telephone No. 23.

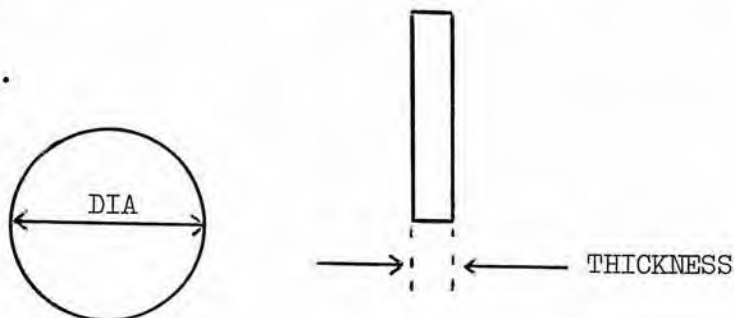
1.2 All the dimensions quoted are in millimetres.

2. DESCRIPTION

2.1 Each gauge shall be defined by three parameters. These are the size, shape and material. The gauges shall be identified by a two character code. This shall be the number 9 followed by H or L.

2.2 Tolerance and Edge radius. Each gauge shall have an edge radius of 0.5 mm and shall be to the dimensions indicated in Para 3. The diameter tolerance shall be ± 0.025 mm. The thickness tolerance shall be $+0.05$ mm -0 mm. The tolerance of the flatness shall be 0.05 mm.

3. DIMENSIONS

3.1 Shape.3.2 Size.

DISK	DIA	THICK
9H	23.6	1.62
9L	28.6	1.62

4. MATERIAL

4.1 The disks shall be made of 'ordinary hard' nickel silver (Bz alloy No NS103). The coin material properties shall be as follows.

% COMPOSITION

Cu	60-65
Ni	9-11
Zn	Remainder
Pb	0.04
Fe	0.25
Mn	0.05-0.3

MECHANICAL

Hardness Hv	100
Youngs Modulus Ibs/in ² x 10 ⁶	18

PHYSICAL

Melting point °C	1010
Density Ibs/in ³	0.311
Coeff of thermal expansion (per °C)	15 x 10 ⁻⁶
Thermal conductivity (J/mask)	0.089
Resistivity microhms/cm	20.7

5. ENGRAVING

5.1 Each disk shall be engraved with the code on one side. The disks shall be engraved to TTH 2A 3/4 x No 4 x 0.8 Deep.

6. PACKING

6.1 Packing shall be to the satisfaction of British Telecommunications Procurement Executive, Operational Systems Development, CS/M3, Queen's Drive House, 5 Dudmore Road, Swindon, SN3 1AH.

7. HISTORY

Date	Issue	Remarks
September 1982	Open	

END OF SPECIFICATION

British Telecommunications Headquarters
Inland Division
Inland Customer Services Department
ICS7.1.1