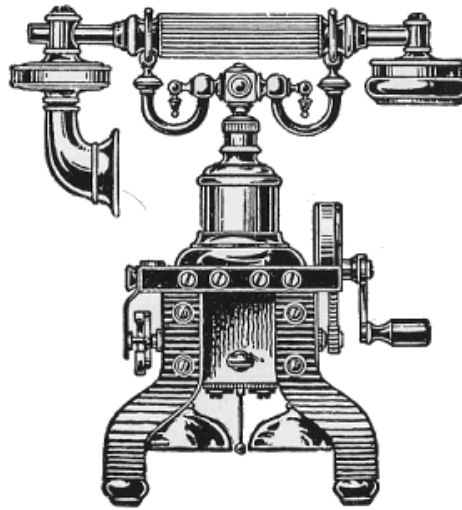




Telephone Engineers and Manufacturers



HEAD OFFICE: 67/73 KINGSWAY, LONDON, W.C. 2

TELEPHONES : 3003 & 3004 GERRARD

TELEGRAMS : ERICSSON, WESTCENT, LONDON

WORKS: BEESTON, NOTTINGHAM, ENGLAND

TELEPHONES : 12 & 130 BEESTON, NOTTINGHAM

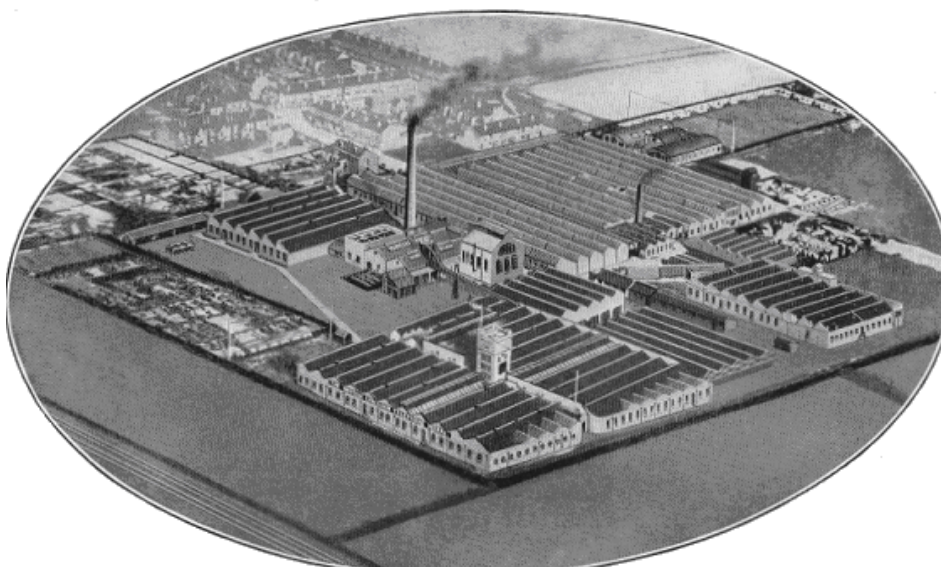
TELEGRAMS : ERICSSON, BEESTON-NOTTINGHAM

ALSO REPRESENTING:

ALLMÄNNA TELEFONAKTIEBOLAGET L. M. ERICSSON, STOCKHOLM

CODES USED

WESTERN UNION, BENTLEY'S & A.B.C. (5th EDITION)



TELEPHONE WORKS, BEESTON, NOTTINGHAM, ENGLAND

Ericsson Factories and Offices

SWEDEN

Allmänna Telefonaktiebolaget L.M. Ericsson, Södra Kungstornet, STOCKHOLM

Works: -5, 15, 17 & 19 Tulegatan, Stockholm

ARGENTINE

Compania Sudamericana de Telefonos
L.M. Ericsson S.A.
Calle Esmeralda 1000
BUENOS AIRES

AUSTRALIA

Ericsson Telephone Mfg. Co.
19 York Street, SYDNEY

Ericsson Telephone Mfg. Co.
509 Collins Street, MELBOURNE

AUSTRIA

Ericsson Oesterreichische
Elektrizitäts-Aktiengesellschaft vorm
Deckert & Homolka
Pottendorferstrasse 25/27
VIENNA XII

BRAZIL

Sociedade Gerd de Telephones
L.M. Ericsson
Rua Sao Pedro 106
RIO de JANEIRO

NEW ZEALAND

B. L. Donne, Australasia Bank
Chaimbers, Customhouse Quay
WELLINGTON

CZECHO-SLOVAKIA

Ericsson Elektrizitäts-
Kommanditgesellschaft Scholta & Co.
Malé Mán. 1
PRAGUE

FINLAND

Aktiebolaget L.M. Ericsson of Finland
Norra Esplanadgatan 25
HELSINGFORS

FRANCE

Société des Telephones Ericsson
Boulevard Haussmann 37
PARIS
Works :-Colombes (Seine)

HUNGARY

Ericsson Ungarische Elektrizitäts-
Aktiengesellschaft vorm,
Deckert & Homolka
Fehérvári-ut 70
BUDAPEST I

COLONIAL AGENTS

SOUTH AFRICA

Rogers-Jenkins & Co., 51 Long Street, CAPETOWN
Rogers-Jenkins & Co., P.O. Box 1876, -52 Smith Street, DURBAN
Rogers-Jenkins & Co., P.O. Box 654, JOHANNESBURG

INDIA

Ericsson Telephones Ltd.
8 Central Avenue
Burra Bazar
CALCUTTA

MEXICO

Empresa de Telefonos Ericsson S.A
2a Calle Victoria, 53 Y 55.
MEXICO, D.F.

POLAND

Ericsson Polska Akcyjna Spółka
Elektryczna
Ceglana 11
WARSAW

RUSSIA

Russische Action-Gesellschaft
L.M. Ericsson & Co.
Gr. Sampsoniewssky Prospekt 70
LENINGRAD



Terms of Business

ENQUIRIES must be addressed to the Head Office of the Company, International Buildings, 67/73, Kingsway, LONDON, W.C. 2.

ILLUSTRATIONS are not binding, owing to improvements made from time to time.

OVERALL DIMENSIONS AND WEIGHTS are given to assist shipping estimates, but must be accepted in all cases as approximate only.

ORDERS should always quote the Catalogue Number of the article. The private codes may be used when ordering by cable. The standard instruments, which are generally kept in stock, should be ordered if possible, as alterations cause delay in delivery and extra cost.

DISCOUNT is allowed to the trade and for export.

DELIVERY is made free in Great Britain, or f.o.b. British Port.

PACKING CASES, except boxes invoiced at 6d. or under, will be credited in full if returned in good condition within 14 days, carriage paid, and duly advised.

RETURN OF GOODS must not be made without our consent.

CLAIMS for shortages or damaged goods must be made on the Carriers or Railway Company within three days of receipt, and our assistance to secure a satisfactory adjustment will be gladly given.

NOTE. No goods, except samples, will be received at the London Office.



Foreword

Our manufactures are so varied that it would be practically impossible to illustrate and describe all in a publication of this nature. This catalogue therefore, contains illustrations and particulars of the apparatus and parts mostly used and which are generally kept in stock.

Our aim is to furnish such information that customers can readily determine the type of article best suited to their particular needs.

The name **Ericsson** is world-renowned for telephone products which are distinctive and unexcelled for design, workmanship and reliability.

In a modernly-equipped factory we manufacture only the very best equipments from the highest-grade materials. We have a staff of competent engineers who are always ready to assist customers with their problems.

The apparatus is arranged under three main sections, viz.:

Telephones
Switchboards
Accessories

Each of these three sections is preceded by a coloured leaf on which is printed an index of the articles following.

To facilitate the ordering of spares or replacements such as cords, receivers and transmitters, the code numbers of these parts are given on the same page as the instrument of which they form integral parts, as well as in the "Accessories Section." It is, however, advisable for the customer to state also the code number of the instrument for which they require the parts.

We have had considerable experience and have thoroughly investigated the requirements in manufacturing our products, to give long service and withstand the severe climatic conditions of the **Tropics**.

When ordering goods for use in the **Tropics** or very damp climates the letter " T " must be added to the code numbers given in this catalogue and as lightning arresters and earth terminal are not generally fitted on these telephones, they must be specially ordered.

Where instruments or other apparatus are required for operating on existing systems, the customer should give the important particulars of the system, as this will often save correspondence and thus expedite delivery of the goods.



Code Words for Quantities

When cabling for any quantity of instruments the following code words of four letters should be used together with the code words of six letters in this catalogue.

EXAMPLES :- YMERNACALL means 50 Telephones N2000

YBEFNAACEL means 2 Switchboards N240

1	YBAD	24	YFYP	47	YLUT	200	YROB
2	YBEF	25	YGAK	48	YLYV	225	YRUC
3	YBIG	26	YGEL	49	YMAP	250	YRYD
4	YBOH	27	YGIM	50	YMER	275	YSAV
5	YBUK	28	YGON	55	YMIS	300	YSEX
6	YBYL	29	YGUP	60	YMOT	325	YSIB
7	YCAF	30	YGYR	65	YMUUV	350	YSOC
8	YCEG	31	YHAL	70	YMYX	375	YSUD
9	YCIH	32	YHEM	75	YNAR	400	YSYF
10	YCOK	33	YHIN	80	YNES	425	YTAX
11	YCUL	34	YHOP	85	YNIT	450	YTEB
12	YCYM	35	YHUR	90	YNOV	475	YTIC
13	YDAG	36	YHYS	95	YNUX	500	YTOD
14	YDEH	37	YKAM	100	YNYB	550	YTUF
15	YDIK	38	YKEN	110	YPAS	600	YTYG
16	YDOL	39	YKIP	120	YPET	650	YVAB
17	YDUM	40	YKOR	130	YPIV	700	YVEC
18	YDYN	41	YKUS	140	YPOX	750	YVID
19	YFAH	42	YKYT	150	YPUB	800	YVOF
20	YFEK	43	YLAN	160	YPYC	850	YVUG
21	YFIL	44	YLEP	170	YRAT	900	YVYH
22	YFOM	45	YLIR	180	YREV	950	YXAC
23	YFUN	46	YLOS	190	YRIX	1000	YXED



Manufactures

AUTOMATIC SWITCHBOARDS

MANUAL SWITCHBOARDS

TELEPHONES :-

FIELD

INTERCOMMUNICATION

MINING

PORTABLE, TESTING

PUBLIC SERVICE

RAILWAY

SHIPS

TRACTION

BELLS

INDICATORS

RELAYS

POLICE LAMPS

PROTECTIVE APPARATUS

RADIO:

CRYSTAL SETS

VALVE SETS

HEADPHONES

LOUD SPEAKERS

COMPONENTS

BUILT-UP PLUGS

MOULDED PLUGS

PRESS STAMPINGS

DEEP DRAWING

TURNED PARTS

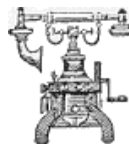
TERMINALS

B.A. SCREWS

B.A. NUTS

WASHERS

OFFICE FURNITURE





Telephone Instruments

INDEX

	PAGE
Automatic Table Telephones	11
Automatic Wall Telephones	12
Battery Ringing Table Telephones	13
Battery Ringing Wall Telephones..	13-16
Battery Ringing Wall Telephones for mines and outdoor use	15
Battery Ringing Wall Telephones for railway use..	16
Battery Ringing Wall Telephones for use on Telegraph lines	16
Central Battery Table Telephones	17
Central Battery Wall Telephones	18-20
Intercommunication Table Telephones	21-26
Intercommunication Wall Telephones	21-25
Portable Telephones	27-28
Magneto Table Telephones	29-30
Magneto Wall Telephones	31-38
Magneto Wall Telephones for mines and outdoor use	37-38
Magneto Wall Telephones, with protection against High-Tension currents	36



Table showing Old Catalogue Numbers of
Telephone Instruments, and the
Corresponding Numbers in this Catalogue

Old No.	New No.	Old No.	New No.
AB125	N2200	BC1250	N1120
AB220	N2260	BC1320	N1130
AB250	N2270	CD103	N1400
AB535	N2300	CD105	N1460
AB590	N2301	CD150	N1450
AB671	N2350	CD1140	N1481
AB675	N2351	CG400	N1301
AB2105	N2800	CG1200	N1350
AB2120	N2801	HA700/10	N1680
AB2305	N2860	HA700/15	N1681
AB2320	N2861	HA700/20	N1682
AB2535	N2960	HA700/30	N1683
AB5000	N2950	HA700/40	N1684
AB5100	N1195	HA700/50	N1685
AC140	N2000	MA80	N1800
AC440	N2100	MB200	N1850
AC540	N2150	MB300	N1830



Automatic Table Telephone

This instrument is the standard British Post Office pattern for automatic systems and is designed on the lines of our C.B. set N1350, but with the calling dial fitted into the special metal base of the pedestal.

The woodwork is finished matt polished and the metal work in durable black enamel and copper bronze.

To facilitate the ordering of parts most likely to be required, the following codes are given

Receiver N6800

Receiver cord N4060

Terminal block cord N4092

Transmitter N7700

DIMENSIONS.

Pedestal $12\frac{1}{4} \times 6$ inches

Bell set $9\frac{5}{8} \times 6\frac{3}{4} \times 3\frac{5}{8}$ inches

Code word NABALA

WEIGHT

6 lb.

$4\frac{1}{4}$ lb.



N 1000

If desired, we supply this instrument without the dial, but prepared and wired so that customers may fit any make of standard dial suitable for the mounting.

Automatic Table Telephone

This instrument is specially designed for the "Ericsson" automatic systems.

The case is made of drawn steel, finished in durable black enamel relieved by gold lines.

All working parts and wiring are insulated from the metal case.

The terminals are enclosed.

Micro-telephone N5808

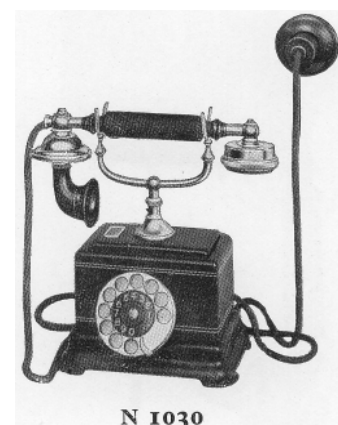
Micro-telephone cord N4007

Terminal block cord N4095

Overall dimensions $10\frac{1}{4} \times 10\frac{1}{4} \times 6\frac{3}{4}$ inches

Weight $7\frac{1}{4}$ lb.

Code word NABADL



N 1030



Automatic Wall Telephone

Wall pattern instrument as used by the British Post Office for automatic systems.

Constructed in a very similar manner to our C.B. instrument N1400, but arranged to take the calling dial.

The woodwork is finished matt polished, and the metal work in durable black and copper bronze.



The receiver, transmitter, ringer, induction coil, condenser and dial are interchangeable with those on the table set N1000 described on the previous page.

The solid back transmitter is mounted on an adjustable arm, and the receiver rests on a removable hook.

All terminals are enclosed.

Transmitter N7700

Receiver N6800

Receiver cord N4060

Overall dimensions $9\frac{5}{8} \times 6\frac{3}{4} \times 6\frac{3}{4}$ inches

Weight 8 lb.

Code word NABLSL

If desired, we supply this instrument without the dial, but prepared and wired so that customers may fit any make of standard dial suitable for the mounting.

Automatic Wall Telephone



As an alternative to Table Telephone N1030, this set is for use with the "Ericsson" automatic systems.

The case is entirely of drawn steel, finished in a durable black enamel.

The bell movement, induction coil and switch are mounted inside and the working parts are insulated from the metal case.

The instrument is handsome in appearance, and durable even when subject to rough usage.

Micro-telephone N5809

Micro-telephone cord N4006

Overall dimensions $11\frac{1}{4} \times 8\frac{1}{4} \times 3\frac{3}{4}$ inches

Weight 7 lb.

Code word NABLXA



Battery Ringing Table Telephone

It is sometimes more convenient to fit a table telephone in preference to the wall type.

This neatly designed, compact set will work equally well with any of the battery ringing wall sets described hereafter.

High-grade Micro-telephone N5802

Micro-telephone cord N4001

Terminal block cord N4094

Induction coil and bell mounted inside the case.

All terminals are enclosed.

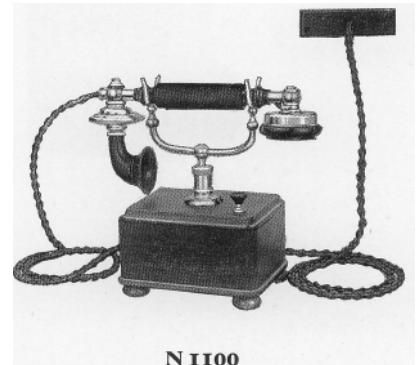
Press button for signalling.

The parts and finish of this set are equal in every way to our telephones for major installations.

Overall dimensions 9 x 10 $\frac{1}{4}$ x 5 inches

Weight 4 $\frac{1}{4}$ lb.

Code word NABMAL



Battery Ringing Wall Telephone

This set is designed on less expensive lines than those on the following page, but fulfills equally well the same functions.

The woodwork is of polished oak.

The transmitter is of the interchangeable "inset" type, and the containing case may be revolved to prevent packing of the carbon granules.

Watch pattern receiver with cord, trembler bell, hook switch, induction coil and push button for signalling.

Line and battery terminals are mounted outside on the top of the instrument.

Receiver N6802

Overall dimensions 9 x 6 $\frac{3}{4}$ x 5 $\frac{1}{4}$ ins.

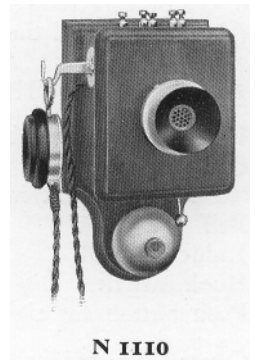
Cord N4060

Weight 2 $\frac{3}{4}$ lb.

Transmitter N7703

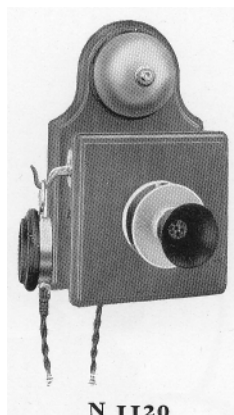
Code word NABMBA

NOTE.-The number of cells and method of connecting same are given on the next page. Also a switch, for making connection when three stations are desired.

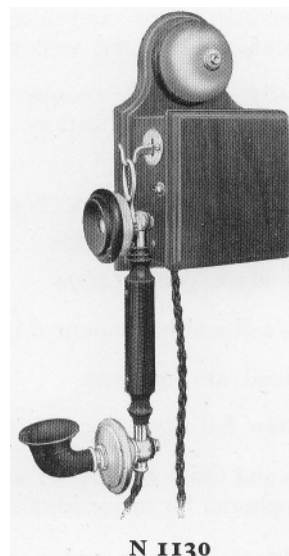




Battery Ringing Wall Telephones



N 1120



N 1130

Suitable for works, offices, shops, hotels, mansions, etc.

The framework and fittings are made and finished in the same superior manner as our other products for large installations.

These sets are equally suitable for single line and earth, or metallic circuits.

Three cells, joined in series, fitted at each station, are generally sufficient for supplying operating current, and three wires between each telephone and set of cells. One wire is connected to the " zinc " end of the battery, the second wire to the carbon terminal of the middle cell-for speaking current-and the third wire to the carbon terminal of the third cell for signalling current.

For very long lines, an additional cell would be required for the signalling circuit. The third wire would then be connected to the carbon terminal of this cell.

EQUIPMENT

Watch pattern receiver N6802
Cord N4060
" Inset " transmitter complete N7702
Bell
Induction coil
Hook switch
Push button for signaling

Overall dimensions $9\frac{1}{2} \times 7\frac{1}{4} \times 5\frac{1}{2}$ inches
Weight $3\frac{1}{2}$ lb.
Code word NABBCA

EQUIPMENT

Micro-telephone N5801
Cord N4000
Bell
Induction coil
Hook switch
Push button for signalling

Overall dimensions $11\frac{1}{4} \times 7\frac{1}{4} \times 3\frac{5}{8}$ inches
Weight $3\frac{1}{2}$ lb.
Code word NABBDL

NOTE.-It is sometimes desired to have an intermediate and two extension telephones. For this purpose extension switch N7550 should be fitted near the intermediate telephone: this switch will work with any of our battery ringing telephones.



Battery Ringing Mining Wall Telephone



Suitable for use in mines, ships, engine rooms, railway yards or any exposed positions.

Enamelled cast iron case with wide machined flange joint between body and front to render the instrument flame-proof, the joint being suitably packed to make it watertight.

The receiver, fitted within the case, is of the "loud speaker" type, having a flexible metallic listening tube with earpiece.

The transmitter is of the interchangeable "inset" type protected by moisture-proof shield and metal grid.

The induction coil, switch and connecting terminals are mounted on ebonite.

The switch, which is very substantially designed, has three positions-"normal," "ring," and "speak."

The screws in the connecting terminals are specially large and very accessible.

All coils are treated to prevent the detrimental and corrosive effects of moisture and gases, etc., and the internal connections are made with special, heavily-insulated stout wire.

The instrument is designed for use with separate bell, or relay and bell, also external speaking and ringing battery, for which see "Accessories and Parts Section."

Overall dimensions 9 x 9 x 6 inches

Weight 20 lb.

Code word NAMMFL



Battery Ringing Wall Telephones

for Railway Work

The battery ringing type of telephone is preferred by most railway companies, so that these instruments are specially designed for simplicity, efficiency and durability in such service.



This set is very suitable for long lines and short lines where the insulation is low.

It is fitted with a relay which operates with weak currents and automatically connects a local circuit for ringing the bell.

Separate speaking and ringing battery circuits.

Double pole " Bell " receiver N6801

Receiver cord N4060

Solid back transmitter N7701

Bell : 100 ohms Relay : 1000 ohms

Induction coil Enclosed terminals

Press-button for signalling

Carbon lightning arrester

Overall dimensions 12 x 7 $\frac{1}{4}$ x 6 $\frac{3}{4}$ inches

Weight 7 $\frac{1}{4}$ lb. Code word NAMMHA



This set is suitable for short or moderately long lines. It is not fitted with a relay.

A condenser is connected in the receiver circuit and the speaking and ringing battery circuits are separate

Double pole " Watch " receiver N6802

Receiver cord N4060

" Inset " transmitter complete N7702

Bell: 100 ohms

Condenser : 1 m.f. Induction coil

Press-button for signaling

Enclosed terminals and disc type lightning arrester.

Overall dimensions 9 $\frac{1}{2}$ x 7 $\frac{1}{4}$ x 5 $\frac{1}{2}$ inches

Weight 4 lb. Code word NAMBJA

Battery Wall Telephone

for use on Telegraph Lines

Suitable for establishing telephonic communication on existing telegraph lines, it may also be used for telegraphing in place of the telegraph instruments, and can be connected to either metallic or earth circuits.

The framework is of polished hardwood, and the fitments are Micro-telephone with cord.

Buzzer, condenser and press-button for sending out buzzer signals.

Receiver, with trumpet which acts as a howler for receiving buzzer signals.

Lightning arrester and connecting terminals.

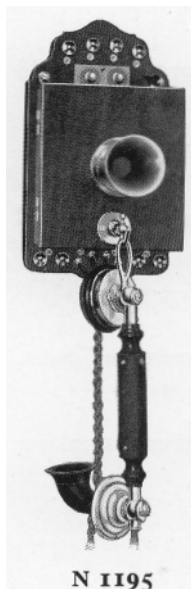
When used for a metallic circuit, the two lines are connected to " L₁," " L₂," but for an earth circuit the line is connected to " L₁," and " J₁ " is joined to " J " by means of a strap, and connected to earth; " L₂ " being left disconnected.

Micro-telephone N5810 Cord N4012

Overall dimensions 11 $\frac{1}{4}$ x 6 x 6 inches

Weight 5 lb.

Code word NAMBKS





C.B. Table Telephone

A very neat and compactly designed table set.

The case is made in three parts, of drawn steel and finished in a durable black enamel relieved by gold lines.

The condenser and bell are fitted inside the case.

The receiver is current polarised, and is generally known as the electro-magnetic type; this simplifies the circuit and no induction coil is necessary.

Micro-telephone N5814

Micro-telephone cord N4011

Terminal block cord N4093

Overall dimensions $10\frac{1}{4} \times 10\frac{1}{4} \times 5$ inches

Weight 6 lb.

Code word NABDAA

This instrument can also be supplied suitable for the " Ericsson
" C.B. system, the code being N 1301 and Code word NABDLB.



N 1300

C.B. Table Telephone

This instrument is in two separate parts, the pedestal and the bell set.

The pedestal is constructed of metal, black enamelled, fitted with a transmitter on adjustable knuckle, switch, and receiver on a removable hook.

The bell case is matt polished hardwood, and contains the bell, condenser, induction coil and connecting terminals.

Receiver N6800

Receiver cord N4060

Transmitter N7700

Terminal block cord N4092

OVERALL DIMENSIONS	WEIGHTS
Pedestal $12 \times 5\frac{1}{4}$ inches	$5\frac{1}{2}$ lb.
Bell set $9\frac{5}{8} \times 6\frac{3}{4} \times 3\frac{5}{8}$ inches	$4\frac{1}{4}$ lb.
Code word NABPSA	

N1351 is the code of this set when fitted with the electro-magnetic type of receiver and circuit. Code word NABPFM



N 1350



C. B. Wall Telephone

This wall instrument is suitable for all sizes of central battery installations. It is very compact and occupies a small space.

The woodwork is matt polished and the metal fittings are finished in a durable black and copper bronze.

The solid back transmitter is mounted on a short adjustable arm and the " Bell " receiver rests on a removable hook.

The terminals are enclosed.

Transmitter N7700

Receiver N6800

Receiver cord N4060

Overall dimensions $9\frac{5}{8} \times 6\frac{3}{4} \times 6\frac{3}{4}$ inches

Weight 7 lb.

Code word NABELL

N1401 is the code of this instrument when fitted with the electro-magnetic type of receiver and circuit. Code word NABRAB.



C. B. Wall Telephone

The case and fittings of this instrument are similar to the one above, except that a micro-telephone is fitted in place of a separate transmitter and receiver.

It is only supplied fitted with the electro-magnetic type of receiver and circuit.

All exposed metal of the micro-telephone is totally insulated from the circuit and working parts.

It is very suitable for works, hospitals and similar installations.

Micro-telephone N5815

Micro-telephone cord N4010

Overall dimensions $11\frac{1}{4} \times 6\frac{3}{4} \times 3\frac{3}{4}$ inches

Weight 6 lb.

Code word NABRFA





C. B. Wall Telephone



A central battery wall instrument embodying a writing desk and instruction card frame with glass.

The case is matt polished hardwood.

Solid-back transmitter on adjustable arm.

" Bell " receiver on removable switch hook.

Induction coil, 2 m.f. condenser and enclosed terminals.

External metal fittings finished in durable black and copper bronze.

Transmitter N7700

Receiver N6800

Receiver cord N4060

Overall dimensions 18 x 10 x 8½ inches

Weight 9 lb.

Code word NABRUL



C. B. Wall Telephone



This instrument is similar to N1450 except that the case is made of pressed steel in two parts and finished in a durable black.

The Micro-telephone is of the electro-magnetic type, and the working parts and circuit are insulated throughout from the exposed metal.

The line terminals and lightning arrester are enclosed.

The set is handsome in appearance and durable even when subject to rough usage.

Micro-telephone N5816

Micro-telephone cord N4009

Overall dimensions $11\frac{1}{4} \times 8\frac{1}{4} \times 3\frac{3}{4}$ inches

Weight $6\frac{1}{4}$ lb.

Code word NABEXL

This instrument can also be supplied suitable for the "Ericsson" C.B. system, the code being N1481 and the code word NABEJM.



Intercommunication Table and Wall Telephones

Auto-reset, Push Button Selectors, Single and Metallic Lines
Central Battery

Up to a maximum of 30 stations, a telephone intercommunication system is ideal for offices, factories, hospitals, institutions, mansions, halls, etc., etc. It is, in fact, an automatic system, without expensive electrical and mechanical switching devices.

The simple operation of taking up the micro-telephone and pressing a selected button fully, signals the required station. On release the button is retained in the speaking position and automatically restored by replacing the micro-telephone, or by pressing another button should conversation be desired with any other station. The called station has only to take up the microtelephone to reply.

Although this system is not secret, a disengaged station is indicated, when being rung, by a buzzer tone in the receiver: if no buzz is heard the station is engaged.



These instruments are the highest grade of telephone manufacture, which is necessary for intercommunication systems in order to obtain reliability, high transmission efficiency and low maintenance costs.

The push button and switch mechanisms are mounted on a metal plate, which ensures perfect alignment of the moving parts.

The micro-telephone is fitted with an electro-magnetic receiver which, together with the "inset" transmitter, gives a high speaking efficiency and a very appreciable reduction in annoying side tone. The transmitter is fitted with an all-metal patent hygienic mouthpiece, so that the maintenance costs on all parts liable to rough usage are reduced to a minimum.

The casework is of high-class polished hardwood, and the exposed external fittings are finished in a durable and pleasing manner.

A diagram showing the method of connecting up the instruments, cables and batteries is supplied. The range of instruments is given overleaf in tabulated form.



Intercommunication

Table and Wall Telephones

Auto-reset, Push Button Selectors, Single and Metallic Lines
Central Battery

Instruments for Single Line Working

No. of Lines	TABLE SETS				WALL SETS			
	Code No.	Code word	Dimensions inches	Weight lb.	Code No.	Code word	Dimensions inches	Weight lb.
6	N1601	NABGAB	$10\frac{1}{4} \times 8 \times 8\frac{1}{4}$	$7\frac{1}{2}$	N1611	NABGBM	$11\frac{1}{4} \times 10 \times 4\frac{1}{2}$	$6\frac{1}{4}$
10	N1603	NABGLD	$10\frac{1}{4} \times 8 \times 8\frac{1}{4}$	$7\frac{3}{4}$	N1613	NABGMP	$11\frac{1}{4} \times 10 \times 4\frac{1}{2}$	$6\frac{1}{2}$
18	N1605	NABUAF	$10\frac{1}{4} \times 8 \times 8\frac{1}{4}$	$8\frac{1}{2}$	N1615	NABUBS	$11\frac{1}{4} \times 10 \times 4\frac{1}{2}$	7
24	N1607	NABULH	$10\frac{1}{4} \times 8 \times 10\frac{1}{4}$	$10\frac{1}{2}$	N1617	NABUMW	$11\frac{1}{4} \times 10 \times 4\frac{1}{2}$	8
30	N1609	NAMGAK	$10\frac{1}{4} \times 8 \times 10\frac{1}{4}$	$10\frac{3}{4}$	N1619	NAMGBZ	$11\frac{1}{4} \times 10 \times 4\frac{1}{2}$	$8\frac{1}{4}$

Instruments for Metallic Line Working

No. of Lines	TABLE SETS				WALL SETS			
	Code No.	Code word	Dimensions inches	Weight lb.	Code No.	Code word	Dimensions inches	Weight lb.
6	N1600	NAMGLA	$10\frac{1}{4} \times 8 \times 8\frac{1}{4}$	$7\frac{3}{4}$	N1610	NAMGML	$11\frac{1}{4} \times 10 \times 4\frac{1}{2}$	$6\frac{1}{2}$
10	N1602	NAMULC	$10\frac{1}{4} \times 8 \times 8\frac{1}{4}$	8	N1612	NAMUMO	$11\frac{1}{4} \times 10 \times 4\frac{1}{2}$	$6\frac{3}{4}$
18	N1604	NAMUAE	$10\frac{1}{4} \times 8 \times 8\frac{1}{4}$	9	N1614	NAMUBR	$11\frac{1}{4} \times 10 \times 4\frac{1}{2}$	$7\frac{1}{2}$
24	N1606	NABGAG	$10\frac{1}{4} \times 8 \times 10\frac{1}{4}$	11	N1616	NABGBU	$11\frac{1}{4} \times 10 \times 4\frac{1}{2}$	$8\frac{1}{2}$
30	N1608	NABGLX	$10\frac{1}{4} \times 8 \times 10\frac{1}{4}$	$11\frac{1}{4}$	N1618	NABGMJ	$11\frac{1}{4} \times 10 \times 4\frac{1}{2}$	$8\frac{3}{4}$

The battery should be located as near the centre of the system as possible.

The number of cells required is as follows :

For ringing 3 cells up to 500 feet of cable between most distant stations.

„ „ 4 „ „ 2000 „ „ „ „ „ „

For speaking 4 „ „ 500 „ „ „ „ „ „

„ „ 5 „ „ 1200 „ „ „ „ „ „

„ „ 6 „ „ 2000 „ „ „ „ „ „

Battery boxes, junction boxes and cables are listed on page 25.

See also " Accessories and Parts Section."



Intercommunication Table and Wall Telephones

Radial Selector, Single Line Local Battery, Secret System

A secret system is sometimes preferred, and this range of instruments has been specially designed to give secrecy and be entirely free from "cross talk," electrostatic and magnetic inductions.

The case work is of high-class finished hardwood.

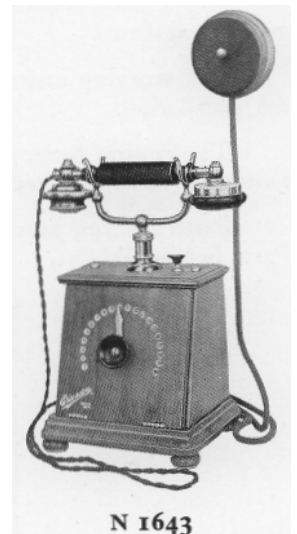
The micro-telephone is fitted with an electro-magnetic receiver, "inset" transmitter and all-metal hygienic mouthpiece.

The radial selector is of substantial design, positive in action, and does not require either automatic or manual replacement, as a ring can be received with the pointer in any position.

Cards giving full working instructions and having spaces for inserting the names of stations, are supplied. Also a diagram showing how the instruments, cables and batteries are connected up.

Three cells are required at each station up to 500 feet of cable between the two most distant stations, and four cells for over 500 feet of cable.

Battery boxes, junction boxes and cables are given on page 25, also see "Accessories and Parts Section."



No. of lines	Code nr.	Code word	Weight lb
5	N1640	NABGEA	6 ¹ / ₄ to 6 ³ / ₄
10	N1641	NABUEB	
15	N1642	NABURC	
20	N1643	NAMGED	
25	N1644	NAMGEE	
30	N1645	NAMUEF	

Overall dimensions 12 ¹/₂ x 10 ¹/₄ x 6 inches.

When these instruments are required as wall sets a bracket is supplied, see overleaf.



Intercommunication Table and Wall Telephones

Radial Selector, Single Line, Central Battery

These instruments are of exactly the same design and outward appearance as those on the previous page, but although secrecy is not given, the circuit and working parts are so arranged that the mischievous listening-in by simply moving the selector arm over the numbers has been guarded against.

Full working instructions are provided, also a diagram showing the necessary connections for installation.

The central battery should be located as near the centre of the system as possible, and the number of cells required is the same as specified on page 22.

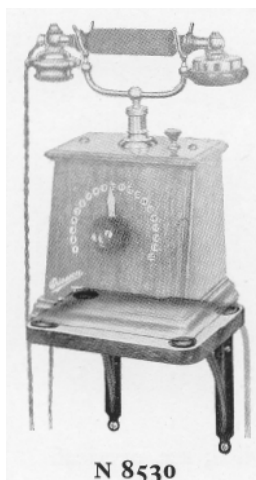
Battery boxes, junction boxes and cables are given on page 25, see also " Accessories and Parts Section."

No. of lines	Code nr.	Code word	Weight lb
5	N1650	NAMUFA	6 to 6 ¹ / ₄
10	N1651	NAMUSB	
15	N1652	NAMGFO	
20	N1653	NAMGSP	
25	N1654	NABCFR	
30	N1655	NABGSS	

Overall dimensions 12 ¹/₂ x 10 ¹/₄ x 6 inches.

Note.-When these instruments are required as wall sets a bracket is supplied, see below.

Wall Bracket for Radial Selector Telephones



The radial selector, secret system and central battery system instruments are made as table sets only.

This arrangement saves customers the necessity of keeping two distinct types in stock.

When these instruments are required to be fixed and used as wall sets we supply a bracket as illustrated.

The shelf is of the same high-class finish hardwood as the instruments, and the supports are black enamelled iron.

Code No. N8530

Code word NAJSPA

Weight 1 ¹/₈ lb.

Dimensions 8 x 6 ³/₈ x 6 ⁵/₈ inches.



Intercommunication Table and Wall Telephones

Battery Boxes

To hold 3 wet or dry cells. Code No. N3230. Code word NAPODA

To hold 4 wet or dry cells. Code No. N3231. Code word NADOPB

Junction Boxes

Code No.	Code word	No. of Terminals	For Instruments	Dimensions inches	Weight lb.
N3300	NADPAA	10	N1601, N1611, N1640 and N1650	7 $\frac{1}{4}$ x 6 x 2	1 $\frac{7}{8}$
N3301	NADDAM	16	N1600, N1603, N1610, N1613, N1641, N1642 and N1651	10 $\frac{1}{4}$ x 6 x 2	2 $\frac{3}{4}$
N3302	NAPPAC	22	N1604,* N1605, N1614,* N1615, N1643, N1652, N1680 and N1682*	13 $\frac{1}{4}$ x 6 x 2	4
N3303	NAPDAP	28	N1602, N1606,* N1607, N1612, N1616,* N1617, N1644, N1653 and N1654	16 $\frac{1}{4}$ x 6 x 2	4 $\frac{3}{8}$
N3304	NADPLE	34	N1608,* N1609, N1618,* N1619, N1645, N1655, N1681 and N1683*	19 $\frac{1}{4}$ x 6 x 2	5 $\frac{3}{8}$

Instruments marked with an asterisk require two junction boxes, of the size specified, at each distribution point.

Cables for Single Line Sets

BRAIDED		LEAD COVERED		No. of Conductors	For Instruments
Code No.	Code word	Code No.	Code word		
N3350	NADDFA	N3370	NADDWA	7	N1640
N3351	NADDSM	N3371	NADDHM	10	N1601, N1611, N1650
N3352	NADPFO	N3372	NADPWO	14	N1603, N1613, N1641, N1651
N3353	NADPSD	N3373	NADPHD	19	N1642, N1652
N3354	NAPPFE	N3374	NAPPWE	24	N1605, N1615,* N1643, N1653
N3355	NAPPSF	N3375	NAPPHF	29	N1607, N1617, N1644, N1654
N3356	NAPDFU	N3376	NAPDHU	34	N1609, N1619, N1645, N1655

Cables for Metallic Line Sets

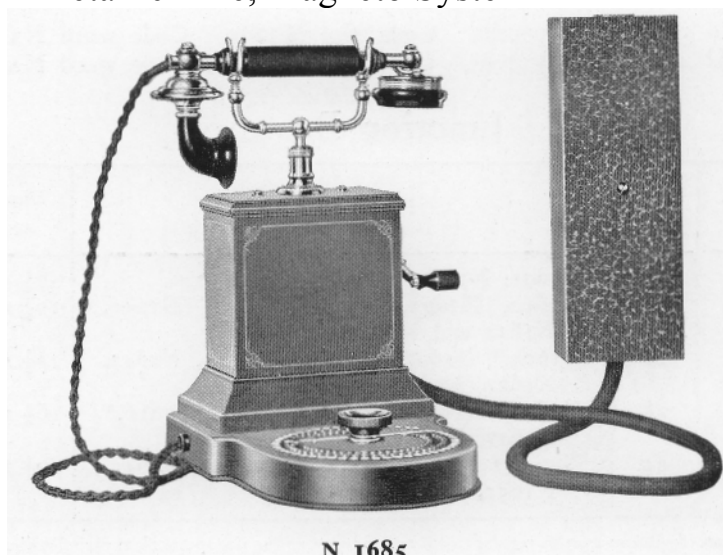
BRAIDED		LEAD COVERED		Conductors No. of pairs	For Instruments
Code No.	Code word	Code No.	Code word		
N3360	NADDUL	N3380	NADDJA	9	N1600, N1610
N3361	NADPUM	N3381	NADPXB	13	N1602, N1612, N1680
N3362	NADDGO	N3382	NADDXO	16	N1681
N3363	NADPGP	N3383	NADPJD	21	N1604, N1614, N1682
N3364	NAPPUR	N3384	NAPPXE	27	N1606, N1616
N3365	NAPDUF	N3385	NAPDJS	33	N1608, N1618, N1683

For further particulars of battery boxes, cells, junction boxes and cables, see " Accessories and Parts Section."
The use of lead-covered cable is strongly recommended for intercommunication telephone installations.



Intercommunication Table Telephone

Metallic Line, Magneto System



A magneto intercommunication system is recommended where the distances between stations are very long, or where the cables between stations are mostly run outdoor.

This type of instrument is very substantial and reliable. The generator is 3-magnet type and the ringer 300 ohms.

To make a call select the desired number by means of the radial switch and turn the generator handle.

A call can be received on the ringer with the switch in any position, but to answer the switch must be turned to position "A" and the micro-telephone lifted off the cradle.

Micro-telephone N5807

Cord N4000

No. of Lines	Code No.	Dimensions inches	Weight - lb.	Code word
10	N1680	$14\frac{1}{4} \times 10\frac{1}{4} \times 9\frac{1}{4}$	12	NABUJA
15	N1681	$14\frac{1}{4} \times 10\frac{1}{4} \times 9\frac{1}{4}$	$12\frac{1}{2}$	NABUXB
20	N1682	$14\frac{1}{4} \times 10\frac{1}{4} \times 9\frac{1}{4}$	$12\frac{3}{4}$	NABG XO
30	N1683	$14\frac{1}{4} \times 10\frac{1}{4} \times 10$	14	NABGJP
40	N1684	$14\frac{1}{4} \times 10\frac{1}{4} \times 13\frac{3}{4}$	15	NAMUJR
50	N1685	$14\frac{1}{4} \times 10\frac{1}{4} \times 13\frac{3}{4}$	16	NAMUXS

NOTE.-These instruments can also be used for single line and earth circuits.



Portable Telephone

A combined telephone and telegraph instrument for military and general field purposes.

The leather case is made to hold the apparatus case and telescopic micro-telephone, and is provided with a shoulder strap and also a loop for belt fastening.

The micro-telephone is fitted with a waterproof cord and a plug which fits the jack in the apparatus case through a hole in the leather case, so that only the micro-telephone need be removed for use.

Calling and telegraphing is done by means of a buzzer and press button.

A battery is included.

Micro-telephone N5805

Micro-telephone cord N4005

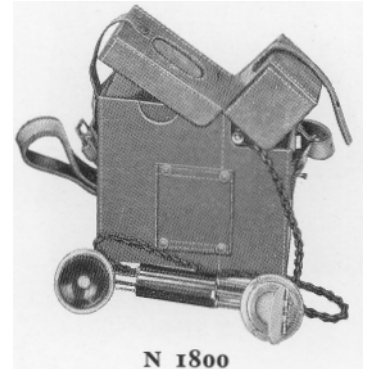
Dry battery N3756

Overall dimensions 9 x 10½ x 3 inches.

Weight 5½ lb.

Code word NAMJAL

NOTE.-When it is required to ring a magneto bell or indicator at the distant end, our Portable Generator N8500 (see page 28) can be used with this instrument.



Portable Telephone

This instrument is specially designed for telephone linesmen's use and is suitable for testing on magneto and central battery manual systems, also as a temporary telephone station.

A 2-magnet generator, 500 ohms magneto ringer, induction coil, condenser and battery are fitted in a polished hardwood case, having a compartment to take the telescopic microtelephone and waterproof cord.

The line terminals and a clip for the generator handle are mounted at the top.

The whole instrument is protected by the leather carrying case which is provided with a shoulder strap.

A battery is included.

Micro-telephone N5806

Micro-telephone cord N4004

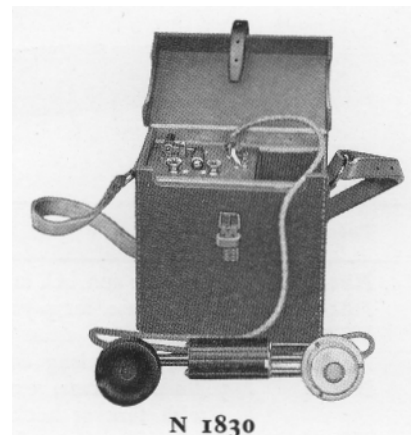
Dry battery N3757

Overall dimensions 7½ x 7½ x 4 inches

Weight 8 lb.

Code word NAMJPA -

NOTE.-A similar instrument for use on automatic as well as magneto and central battery manual systems, can be supplied if specially ordered. Code No. N1831 Code word NAMJDM





Portable Telephone

Specially suitable for temporary stations, can be used for telephonic and telegraphic communications, also for testing lines.

A high-class polished hardwood case with carrying handle, containing :

3-magnet generator, 300 ohm magneto ringer, buzzer, press button for short circuiting the receiver, press button for buzzer signalling, condenser, micro-telephone with waterproof cord, 2 dry cells, clip for generator handle when not in use, terminals and a small screwdriver.

Micro-telephone N5804

Micro-telephone cord N4003

Dry cell N3751

Overall dimensions $8\frac{1}{4} \times 12 \times 6\frac{3}{4}$ inches.

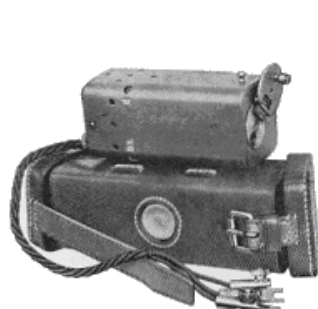
Weight $17\frac{1}{2}$ lb.

Code word NAMXFA

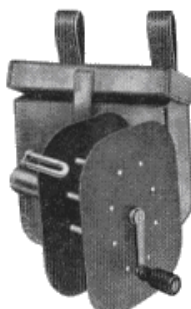
If specially ordered, we can supply this type of set with a 4-magnet generator and a 1000 ohm ringer. Code No. N1851 Code word NAMXSM



Portable Telephone Accessories



N 8500



N 8501



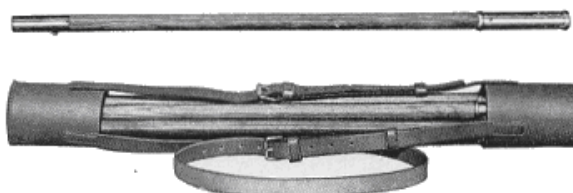
N 8503



N 8506



N 8516



N 8514

Code No.	Description	Weight lb.	Code word
N8500	Generator and bell in case, for use with N1800	$2\frac{3}{4}$	NAXFAL
N8501	Reel in case, for paying out and winding in line wire	$1\frac{3}{4}$	NAJSAM
N8503	Fork, used to assist in suspending the line wire	$\frac{1}{4}$	NAJFAD
N8506	Hook, for making contact with the line wire	$\frac{1}{4}$	NAXFLU
N8514	5 Rods in case, extended length 110 inches, for use with fork or hook above	$2\frac{3}{4}$	NAJFBE
N8516	Earth spike, for making earth connection.	$\frac{1}{2}$	NAXSMU