



See page 48
74

SAMUEL BROWN

51503

46607 POB_{bx}

1719

Electrical

PLUG AND SOCKET CABLE COUPLINGS

SWITCHES, FUSEGEAR

GROUND BOXES

Etc.

Gough 43-170

Mr. Noye



ABOARD SHIP

IN THE DOCKYARD

BATTERY CHARGING

AIRCRAFT AND AIRFIELDS

MARKETS AND FAIRGROUNDS

ROAD AND RAIL TRANSPORT

PORTABLE TOOLS AND APPLIANCES

RADIO REMOTE CONTROL CIRCUITS

TEMPORARY LIGHTING INSTALLATIONS

PRICE LIST IN POCKET
OF BACK COVER

HEAD OFFICE :

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STANDARD CONDITIONS OF SALE

PRICES

All prices quoted by this Company in its price lists or in special quotations are based on the cost of materials, labour and transport ruling on the date of quotation. If between the date of quotation and the date of delivery to the Buyer there are any variations in any such items, the price shall be increased or reduced proportionately.

PACKING CASES

Packing cases and other packing shall be charged to the Buyer and the amounts so charged shall be payable at the same time as the Contract price, but credit will be given if these are returned to this Company's works in good condition, CARRIAGE PAID, within one month of receipt.

DELIVERY

This Company will use its best endeavours to execute orders to time, but any period or date of delivery specified in any tender or order is to be deemed an estimate only and this Company is not to be liable for any loss or damage arising in any circumstances out of late delivery. When delivery by instalments is specified, each delivery shall constitute a separate Contract and the failure of one delivery shall not vitiate the Contract as to the remaining deliveries.

BREAKAGES OR SHORTAGES

Any claim respecting damage or shortage of goods supplied must be made in writing within seven days after delivery of goods or within fourteen days after receipt by the Buyer from this Company of a dispatch note (whichever period shall first terminate) or within such shorter period as may for the time being be requisite to permit this Company to make claims upon the carriers concerned. Figures in documents issued by carriers will not be accepted as evidence of shortage.

SUBSTITUTION OF IMPROVED DESIGNS

This Company reserves the right to supply goods incorporating any alterations from the design ordered by the Buyer which shall be considered by this Company to be an improvement upon the designs so ordered.

WARRANTY

This Company agrees to have repaired or replaced without cost at its factory any part of the goods sold which within six months from date of dispatch from this Company's factory, shall prove to the satisfaction of this Company's representatives to have been defective in either workmanship or material when dispatched, but the Buyer shall have no right to claim any expenses of dispatch to and collection from this Company's factory or any claim on account of loss of profit, stoppage of plant or machinery, special, indirect or consequential damage, or for any other loss, damage or expense by reason of the defect, unsuitability of goods for the purpose ordered and supplied or otherwise howsoever. Provided that no claim for repair or replacement of any such defective part shall be accepted if the Buyer has caused any alterations or repairs to be made or work to be done to the goods sold by any person other than this Company's employees.

All warranties, guarantees and conditions other than those expressly stated herein whether implied by common law, statute custom of the trade, or otherwise shall be expressly excluded.

TRADE MARK AND PATENT RIGHTS

The Buyer shall not infringe in any way the Trade Mark or Patent rights owned by the Company and shall inform any persons to whom the Buyer may resell goods supplied by this Company that the word NIPHAN is a Registered Trade Mark of this Company.

TERMS OF PAYMENT AND NEW ACCOUNTS

Unless an account has been opened, cash with order, or against Bill of Lading.
Firms desirous of opening an account should furnish us with a Banker's and two Trade References. Monthly accounts with 2½ per cent cash discount are payable on or before the end of the month in which the goods have been delivered. No discount allowed on overdue accounts. Cheques, postal orders and money orders to be made payable to the Company.

HOME ORDERS

Carriage charged on orders under £10. London delivery free.

ORDERS FROM NORTHERN IRELAND AND EIRE

Carriage is paid to the last English or Scottish port, Customs clearance charges, and carriage to destination being chargeable to the Buyer.

EXPORT ORDERS

Foreign or Colonial orders are delivered F.O.B. British port, packing being charged at cost. Arrangements for payment against Bills of Lading should be made on notification of despatch.

All business transacted hereunder shall be subject to exchange control regulations and the regulations regarding import and export and all other laws from time to time in force. This Company will use its best endeavours to obtain all consents and licences (other than licences to import into countries outside the United Kingdom, which shall be obtained by the Buyer), which may be required but shall not incur any responsibility by reason of any refusal or failure by the competent authority to grant any such consent or licence.

EXCLUSION OF OTHER CONDITIONS

Any negotiations, conversations or understanding whether before or after the date of the contract for sale incorporating these Conditions are not to have effect unless evidenced in writing signed after the date hereof by the Buyer and an officer of this Company and in particular this Company does not agree to be bound by any conditions included in any form of order used by the Buyer unless expressly accepted in writing as aforesaid.

The Contract for Sale incorporating these Conditions shall be construed according to the law of England and shall be subject to the exclusive jurisdiction of the English Courts.



PLUG AND SOCKET CABLE COUPLINGS

for

ELECTRIC CABLES

As supplied to the Admiralty, War Office, Air Ministry, Ministry of Supply, Ministry of Works, Crown Agents for the Colonies, Foreign Governments and Industry.

Standard Ratings : 3 to 600 Amps. 50 to 500 Volts.

NIPHAN Cable Couplings have been devised to provide a simple but efficient means of connecting Portable Electric Lighting and Power Installations, and to enable an Installation to be erected, varied, or removed as required by unskilled labour in the minimum of time and without tools or waste of materials.

The NIPHAN Industrial Weathertight Coupling of to-day shows many improvements over the original designs first made some forty years ago, but the essential dimensions have been precisely maintained to guarantee perfect interchangeability with the numerous early patterns still in use throughout the world.

In the pages of this 20th edition of the NIPHAN catalogue will be found details of standard NIPHAN Plugs and Sockets, Switches, Fusegear, Ground Boxes, etc. Also a section showing NIPHAN Couplings made to B.S.546 (B.E.S.A.) specifications.

All NIPHAN products are made to a high standard of quality and receive a most rigid inspection.

SPECIFICATION

Plug and Socket cases are of brass with steel-bronze finish, except Heavy-duty couplings which are cast-iron with painted finish.

Subject to suitable cable glands being fitted, all couplings are weather-tight.

Submersible couplings for operating in under-water conditions can be supplied (page 80).



Specification continued—

Glands

Detachable Plugs and Sockets, with the exception of Heavy-duty types, are fitted with Wood-grip or Hexagon nut glands with I.R. cord rings as standard.

Special types of glands are fitted if required, at extra cost (page 112).

NIPHAN design ensures that all couplings have a firm electrical contact, and will withstand an electrical test equal to accepted standards.

It is recommended that all terminal screw holes should be filled with insulating compound after wiring. Similarly, the backs of the terminals should be sealed.

Standard 2 pole couplings 25 amps. and over are non-reversible (odd pins). 3 amps. to 15 amps. are reversible but can be supplied with odd pins if required.

THE SOCKET MUST ALWAYS BE THE LIVE END.

Plugs and Sockets are not normally engraved with symbols. Engraving if required at extra cost.

IMPORTANT

All NIPHAN couplings, etc., are marked with the registered trade mark "NIPHAN" together with the recognised catalogue number.

TRADE MARK, PATENTS, REGISTERED DESIGNS

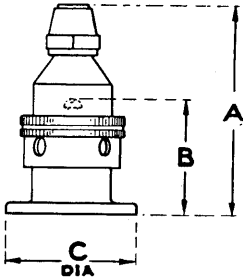
Notice is given that the word NIPHAN is a Registered Trade Mark owned by this Company and that certain of the products in this Catalogue are protected by Patents and Registered Designs.

In view of the Trade Marks Act, 1938, it is not permissible to :

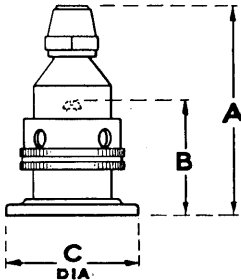
- (a) Alter, remove or obliterate a Trade Mark.
- (b) Add to the goods bearing a Trade Mark any matter which is likely to injure the reputation of the Mark.
- (c) Apply the Trade Mark to goods which have suffered alteration in their state or condition, get-up or packing.
- (d) Apply any other Trade Mark to the goods covered by the Registered Trade Mark.
- (e) Apply the name NIPHAN to any goods which are not goods manufactured by this Company.

In respect of patented articles, the Company grants to all buyers from this Company a limited licence to use and resell the goods subject to the Patent, but no other licence or authority.

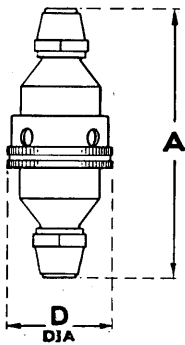
**Approximate dimensions (inches) of standard couplings
shown in section I, pages 8 and 10**



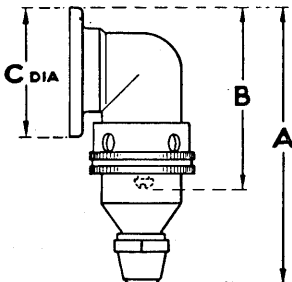
| FLANGE SOCKET & PLUG | | | | | | | | |
|----------------------|-------|----------------|----------------|----------------|-----|----------------------|-----------------|--|
| Amps. | Poles | A | B | C | No. | Fixing holes Dia. | P.C.D. | |
| 3 | 4 | $2\frac{7}{8}$ | $1\frac{1}{2}$ | $1\frac{3}{4}$ | 3 | $\frac{5}{32}$ | $1\frac{7}{16}$ | |
| 5 | 2/3 | | | | | | | |
| 5 | 4 | $4\frac{1}{4}$ | $2\frac{1}{8}$ | $2\frac{1}{4}$ | 3 | $\frac{3}{16}$ | $1\frac{7}{8}$ | |
| 15 | 2/3 | | | | | | | |



| FLANGE PLUG & PLAIN SOCKET | | | | | | | | |
|----------------------------|-------|----------------|----------------|----------------|-----|----------------------|-----------------|--|
| Amps. | Poles | A | B | C | No. | Fixing holes Dia. | P.C.D. | |
| 3 | 4 | 3 | $2\frac{1}{8}$ | $1\frac{3}{4}$ | 3 | $\frac{5}{32}$ | $1\frac{7}{16}$ | |
| 5 | 2/3 | | | | | | | |
| 5 | 4 | $4\frac{1}{8}$ | $2\frac{5}{8}$ | $2\frac{1}{4}$ | 3 | $\frac{3}{16}$ | $1\frac{7}{8}$ | |
| 15 | 2/3 | | | | | | | |



| PLAIN COUPLING | | | | |
|----------------|-------|----------------|-----------------|--|
| Amps. | Poles | A | D | |
| 3 | 4 | 4 | $1\frac{7}{16}$ | |
| 5 | 2/3 | | | |
| 5 | 4 | $5\frac{5}{8}$ | $1\frac{3}{4}$ | |
| 15 | 2/3 | | | |



| ANGLE FLANGE SOCKET & PLUG | | | | | | | | |
|----------------------------|-------|----------------|----------------|----------------|-----|----------------------|----------------|--|
| Amps. | Poles | A | B | C | No. | Fixing holes Dia. | P.C.D. | |
| 3 | 4 | $4\frac{1}{8}$ | $2\frac{7}{8}$ | 2 | 3 | $\frac{3}{16}$ | $1\frac{5}{8}$ | |
| 5 | 2/3 | | | | | | | |
| 5 | 4 | $5\frac{1}{2}$ | $3\frac{3}{8}$ | $2\frac{1}{4}$ | 3 | $\frac{3}{16}$ | $1\frac{7}{8}$ | |
| 15 | 2/3 | | | | | | | |

Note.—Dimension B is with cover on.



CABLE COUPLINGS

(Section I)

3 Amp. to 15 Amp

50 Volt and 250 Volt

2, 3 and 4 Pole

Dimensions of standard couplings in this section shown on previous page.

Details of bores of standard cable glands appropriate to this section.

| Gland No. page 112 | Gland | gland bores (inches) | | | |
|---|---------------|----------------------------|------|-----------------------------|------|
| | | 3 amp. 4 pole 5 " 2/3 " | | 5 amp. 4 pole 15 " 2/3 " | |
| | | std. | max. | std. | max. |
| 1 | Wood-grip ... | .281 | .312 | .375 | .406 |
| 2 | Hexagon nut | .312 | .406 | .375 | .500 |
| Gland bores other than standard charged extra | | | | | |
| | | min. | max. | min. | max. |
| * 3 | Saddle ... | .250 | .406 | .375 | .500 |

* Supplied at extra cost.

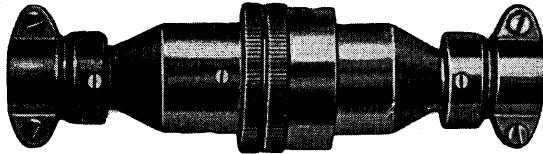
Glands for larger size cables can be supplied on request at extra cost.

Maximum bore for glands 2 and 3 is maximum allowing use of rubber packing ring.

See page 112 for illustrations of glands.



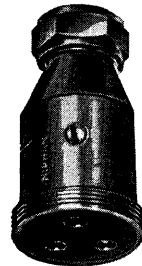
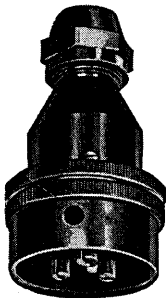
3 AMP. 50 VOLT 5 AMP. 250 VOLT
15 AMP 250 VOLT
CABLE COUPLINGS



PLUG

**PLAIN COUPLINGTM
WITH SADDLE GLANDS**

PLAIN SOCKET

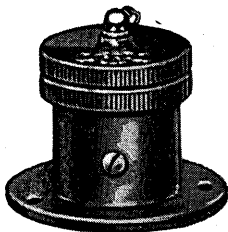


PLUG

| Cat. No. | Amps. | Poles |
|----------------|-------|-------|
| N 527 | 15 | 2 |
| N 527 a | 15 | 3 |
| N 527 b | 5 | 4 |
| N 600 | 5 | 2 |
| N 600 a | 5 | 3 |
| N 600 b | 3 | 4 |

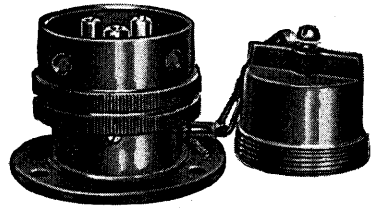
PLAIN SOCKET

| Cat. No. | Amps. | Poles |
|----------------|-------|-------|
| N 540 | 15 | 2 |
| N 540 a | 15 | 3 |
| N 540 b | 5 | 4 |
| N 650 | 5 | 2 |
| N 650 a | 5 | 3 |
| N 650 b | 3 | 4 |



**FLANGE SOCKET
& COVER**

| Cat. No. | Amps. | Poles |
|----------------|-------|-------|
| N 549 | 15 | 2 |
| N 549 a | 15 | 3 |
| N 549 b | 5 | 4 |
| N 662 | 5 | 2 |
| N 662 a | 5 | 3 |
| N 662 b | 3 | 4 |



**FLANGE PLUG
& COVER**

| Cat. No. | Amps. | Poles |
|----------------|-------|-------|
| N 575 | 15 | 2 |
| N 575 a | 15 | 3 |
| N 575 b | 5 | 4 |
| N 677 | 5 | 2 |
| N 677 a | 5 | 3 |
| N 677 b | 3 | 4 |

IMPORTANT

3 and 4 pole supplied one pole earthed unless otherwise ordered
Dimensions see page 6

For alternative Cable Glands see page 112

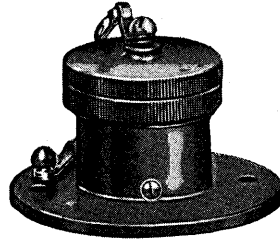


3 AMP. 50 VOLT 5 AMP. 250 VOLT
15 AMP. 250 VOLT
CABLE COUPLINGS

**WIDE FLANGE
 SOCKET & COVER**

With $2\frac{1}{8}$ " dia. flange to fit
 Universal Conduit Boxes

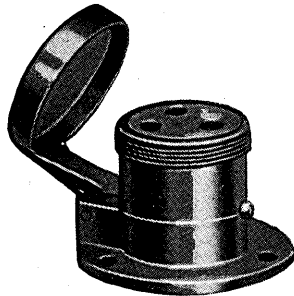
| Cat. No. | Amps. | Poles |
|----------|-------|-------|
| N 569 | 15 | 2 |
| N 569 a | 15 | 3 |
| N 569 b | 5 | 4 |
| N 649 | 5 | 2 |
| N 649 a | 5 | 3 |
| N 649 b | 3 | 4 |



Wide Flange Plug and Cover as page 8, but with $2\frac{1}{8}$ " diameter flange can be supplied.

**FLANGE SOCKET
 WITH SPRING COVER**

| Cat. No. | Amps. | Poles |
|----------|-------|-------|
| N 579 | 15 | 2 |
| N 579 a | 15 | 3 |
| N 579 b | 5 | 4 |
| N 669 | 5 | 2 |
| N 669 a | 5 | 3 |
| N 669 b | 3 | 4 |

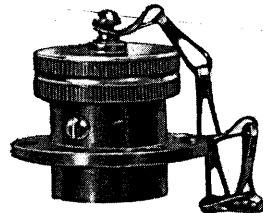


Can be supplied on Terminal or Through Base as page 11

**FLANGE SOCKET
 & COVER**

for panel mounting, etc.

| Cat. No. | Amps. | Poles |
|----------|-------|-------|
| N 599 | 15 | 2 |
| N 599 a | 15 | 3 |
| N 599 b | 5 | 4 |
| N 699 | 5 | 2 |
| N 699 a | 5 | 3 |
| N 699 b | 3 | 4 |



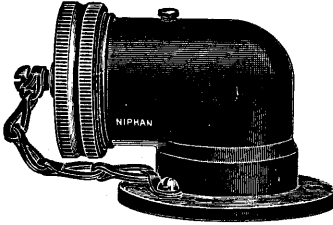
IMPORTANT

3 and 4 pole supplied one pole earthed unless otherwise ordered

Plugs for above see pages 8 and 19

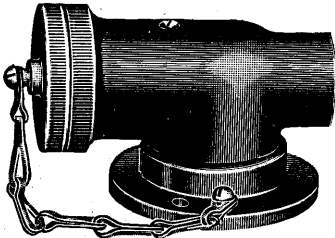


3 AMP. 50 VOLT 5 AMP. 250 VOLT
15 AMP. 250 VOLT
CABLE COUPLINGS



**ANGLE FLANGE
SOCKET & COVER**

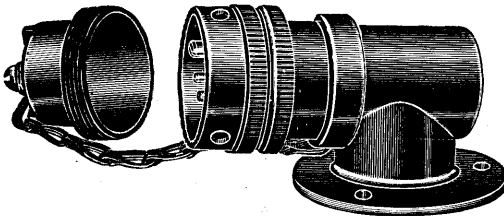
| Cat. No. | Amps. | Poles |
|----------|-------|-------|
| N 558 | 15 | 2 |
| N 558 a | 15 | 3 |
| N 558 b | 5 | 4 |
| N 665 | 5 | 2 |
| N 665 a | 5 | 3 |
| N 665 b | 3 | 4 |



**THROUGH ANGLE
FLANGE SOCKET
& COVER**

| Cat. No. | Amps. | Poles |
|----------|-------|-------|
| N 573 | 15 | 2 |
| N 573 a | 15 | 3 |
| N 573 b | 5 | 4 |
| N 666 | 5 | 2 |
| N 666 a | 5 | 3 |
| N 666 b | 3 | 4 |

Screwed $\frac{3}{4}$ " conduit



**ANGLE FLANGE
PLUG & COVER**

| Cat. No. | Amps. | Poles |
|----------|-------|-------|
| N 537 | 15 | 2 |
| N 537 a | 15 | 3 |
| N 537 b | 5 | 4 |
| N 667 | 5 | 2 |
| N 667 a | 5 | 3 |
| N 667 b | 3 | 4 |

Can be supplied through pattern. Screwed $\frac{3}{4}$ " conduit.

IMPORTANT

3 and 4 pole supplied one pole earthed unless otherwise ordered

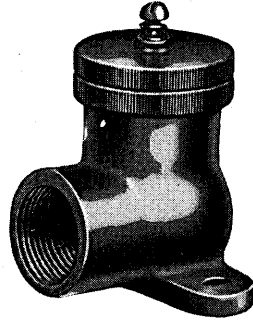
Dimensions of Angle Sockets see page 6 Plugs and Plain Sockets for above see pages 8 and 19



3 AMP. 50 VOLT 5 AMP. 250 VOLT
15 AMP. 250 VOLT
CABLE COUPLINGS

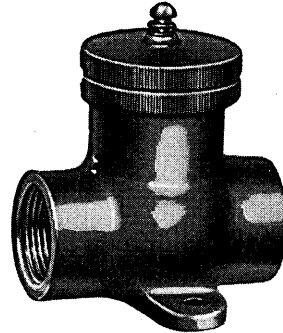
**TERMINAL SOCKET
& COVER**

| Cat. No. | Amps. | Poles | |
|----------|-------|-------|-------------------------|
| N 557 | 15 | 2 | } Screwed 1" conduit |
| N 557 a | 15 | 3 | |
| N 557 b | 5 | 4 | } 3/4" conduit |
| N 663 | 5 | 2 | |
| N 663 a | 5 | 3 | |
| N 663 b | 3 | 4 | |



**THROUGH SOCKET
& COVER**

| Cat. No. | Amps. | Poles | |
|----------|-------|-------|-------------------------|
| N 555 | 15 | 2 | } Screwed 1" conduit |
| N 555 a | 15 | 3 | |
| N 555 b | 5 | 4 | } 3/4" conduit |
| N 664 | 5 | 2 | |
| N 664 a | 5 | 3 | |
| N 664 b | 3 | 4 | |

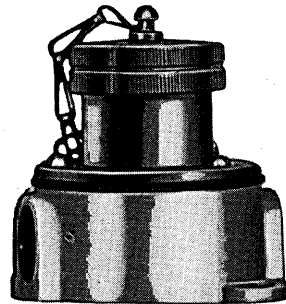


**SOCKET & COVER
WITH TERMINAL BASE**

| Cat. No. | Amps. | Poles |
|----------|-------|-------|
| N 567 | 15 | 2 |
| N 567 a | 15 | 3 |
| N 567 b | 5 | 4 |
| N 658 | 5 | 2 |
| N 658 a | 5 | 3 |
| N 658 b | 3 | 4 |

**SOCKET & COVER
WITH THROUGH BASE**

| Cat. No. | Amps. | Poles |
|----------|-------|-------|
| N 560 | 15 | 2 |
| N 560 a | 15 | 3 |
| N 560 b | 5 | 4 |
| N 651 | 5 | 2 |
| N 651 a | 5 | 3 |
| N 651 b | 3 | 4 |



Screwed 3/4" conduit

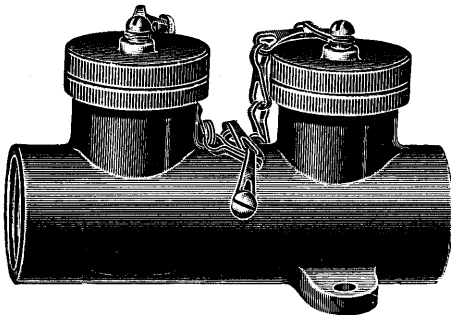
IMPORTANT

3 and 4 pole supplied one pole earthed unless otherwise ordered

Plugs for above see pages 8 and 19



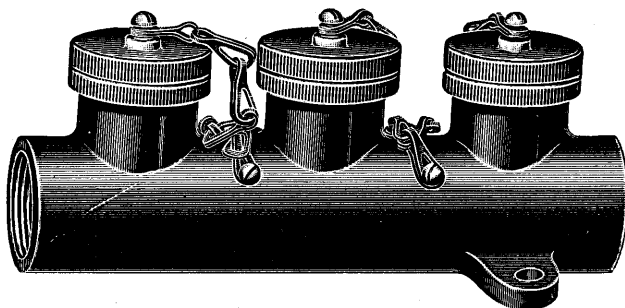
5 & 15 AMP. 250 VOLT CABLE COUPLINGS



5 amp. screwed $\frac{3}{4}$ " conduit
15 amp. „ 1" conduit

2-WAY MULTIPLE SOCKET WITH 2 COVERS

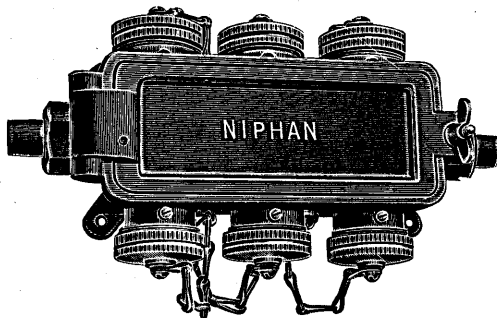
| Cat. No. | Amps. | Poles |
|----------|-------|-------|
| N 570 | 15 | 2 |
| N 570 a | 15 | 3 |
| N 671 | 5 | 2 |
| N 671 a | 5 | 3 |



5 amp. screwed $\frac{3}{4}$ " conduit
15 amp. „ 1" conduit

3-WAY MULTIPLE SOCKET WITH 3 COVERS

| Cat. No. | Amps. | Poles |
|----------|-------|-------|
| N 571 | 15 | 2 |
| N 571 a | 15 | 3 |
| N 672 | 5 | 2 |
| N 672 a | 5 | 3 |



5 AMP. 6-WAY SOCKET BOX WITH 6 COVERS

N 676 2 Pole
N 676 a 3 Pole

IMPORTANT

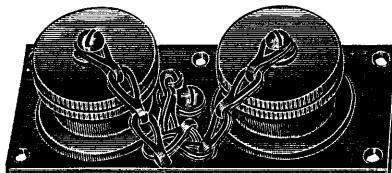
3 pole supplied one pole earthed unless otherwise ordered
Plugs for above see pages 8 and 19



3 AMP. 50 VOLT 5 AMP. 250 VOLT
15 AMP. 250 VOLT
CABLE COUPLINGS

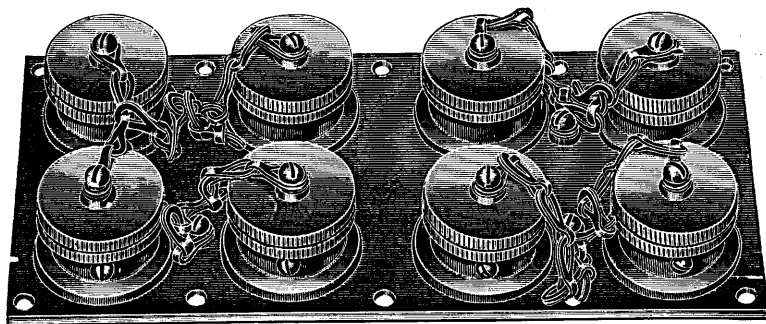
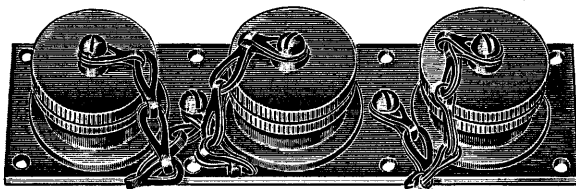
**2-WAY SOCKET PLATE
WITH 2 COVERS**

| Cat. No. | Amps. | Poles |
|----------|-------|-------|
| N 592 | 15 | 2 |
| N 592 a | 15 | 3 |
| N 592 b | 5 | 4 |
| N 692 | 5 | 2 |
| N 692 a | 5 | 3 |
| N 692 b | 3 | 4 |



**3-WAY SOCKET PLATE
WITH 3 COVERS**

| Cat. No. | Amps. | Poles |
|----------|-------|-------|
| N 593 | 15 | 2 |
| N 593 a | 15 | 3 |
| N 593 b | 5 | 4 |
| N 693 | 5 | 2 |
| N 693 a | 5 | 3 |
| N 693 b | 3 | 4 |



**8-WAY SOCKET PLATE
WITH 8 COVERS**

| Cat. No. | Amps. | Poles |
|----------|-------|-------|
| N 598 | 15 | 2 |
| N 598 a | 15 | 3 |
| N 598 b | 5 | 4 |
| N 698 | 5 | 2 |
| N 698 a | 5 | 3 |
| N 698 b | 3 | 4 |

Also 4- and 6-way patterns
(style as 8-way)

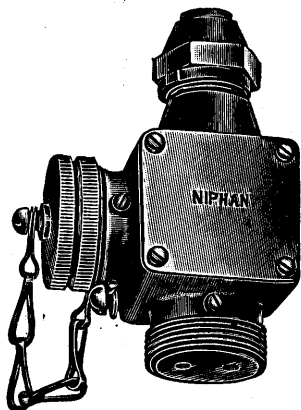
Socket Plates up to 36-way can
be supplied.

IMPORTANT

*3 and 4 pole supplied one pole earthed unless otherwise ordered
Plugs for above see pages 8 and 19*



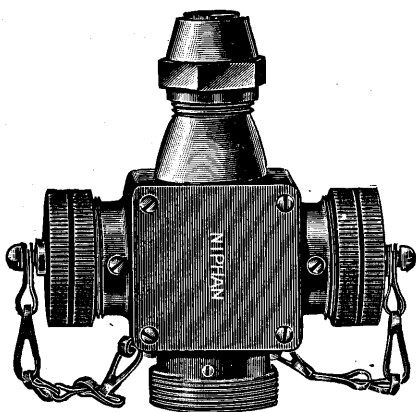
**5 AMP. 250 VOLT
TEE COUPLINGS**



**5 AMP.
2-WAY SQUARE TEE
WITH 1 COVER**

| Cat. No. | Poles |
|----------|-------|
| N 602 | 2 |
| N 602 a | 3 |

Fitted with 15 amp. size gland inlet.



**5 AMP.
3-WAY SQUARE TEE
WITH 2 COVERS**

| Cat. No. | Poles |
|----------|-------|
| N 603 | 2 |
| N 603 a | 3 |

IMPORTANT

3 pole supplied one pole earthed unless otherwise ordered

For alternative Cable Glands see page 112

Plugs for above see pages 8 and 19