# "TRAFFORD" ELECTRICAL ACCESSORIES



THE BRITISH WESTINGHOUSE ELECTRIC AND MFG. CO., LTD. MANCHESTER

> Supply List No. 111 (Partially superseding List No. 201) October, 1911

## Conditions of Sale

**Prices.**—This list supersedes all previous lists and quotations, and is subject to alteration without notice.

**Payment.**—All accounts are strictly monthly, and if paid within one month following delivery  $2\frac{1}{2}$ % discount is allowed, otherwise the account is NETT. Cheques should be crossed "& Co."

First Orders should be accompanied by a remittance in full, and also usual trade references if a ledger account be desired.

Foreign Orders must in all cases be accompanied by a remittance, or arrangements made for payment on presentation of shipping documents.

**Ordering.** — When ordering, it is important that full particulars and catalogue numbers be given.

**Packing Cases** are charged at cost if not returned to us duly advised and carriage paid, undamaged and in good condition, within one month after delivery.

**Delivery.**—Free on Rail, Manchester. Parcels of £2 value and upwards carriage paid.

**Damage or loss in transit.**—We will not be responsible for damage or loss in transit. The Purchaser should sign carrier's receipt note, "Goods received unexamined." If goods are found to have been damaged we are to be notified at once, and a claim against carrier must be made by the Purchaser within three days of receiving them, otherwise no compensation can be made.

**Claims for Shortages** or other differences can only be entertained if notification is received by us within seven days from date of Advice Note. Any goods returned and not previously advised will be refused.

**Goods supplied.**—The illustrations are typical, and represent as nearly as possible what we supply, but, due to the fact that modifications and improvements are made from time to time, we do not guarantee that the goods supplied are in all cases identical with the illustrations. Electrical Accessories

## Introduction

ELECTRICAL ACCESSORIES are in brisk daily demand, and constitute the necessary stockin-trade of every dealer in electrical goods. One of the great difficulties of the dealer, however, must ever be to decide from the very numerous different makes of fittings which is the best, both as regards quality and price. Providing he succeeds in securing a good and reliable make of accessory at the right price, he is assured of a brisk and steady trade. But, as with so many makes, the general finish and design is sacrificed to bring the price down, the purchaser can only judge by experience which kind of accessory it will pay him best to sell.

Westinghouse electrical accessories are recognised for their general excellence, and, as to the question of prices, a casual glance through this list will show that these are right.

We can supply electric light installation material of every description—lamps, fittings, fans, cooking and heating appliances, conduit, wires and cables, also bells and telephones.

Copies of our lists, descriptive of any of above apparatus, will be forwarded on application, and prices for any goods not included in these lists can be furnished on application.

W.D.

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BR

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Electrical Accessories.

## "TRAFFORD" FLAT TYPE Single Pole TUMBLER SWITCHES



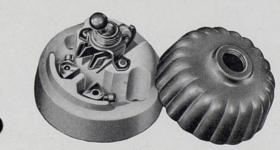
#### Cat. No. 02334.

RE VERY COMPACT in design and of exceptionally neat appearance. They have a smooth reliable action, and all parts are well assembled. The switches, which can be supplied with either black or cream best English china bases, are made in one size, of 5 amperes capacity and fitted with polished brass covers. They are suitable for use on circuits up to 260 volts.

Cat. No.	5 Amp.	Per Doz.
02334	White base	14/-
02332	Black base	14/-

### DOME TYPE .- Single Pole.

SPECIALLY designed to provide a sound and reliable switch at a moderate price. The parts throughout moderate price. The parts throughout are substantial and of the best materials obtainable. The bases (black or white) are of porcelain, made from the finest English clay, thoroughly glazed and fired to enable the bases to resist earths and leakage. The current carrying



parts are effectively insulated from the cover and handle. The action of the switch is easy and positive. Good contact is made and the poles are separated by a porcelain wall. Suitable for use on circuits up to 260 volts.

..

Cat. No. 0652.

Description.	5 Amp.		10 Amp.		15 Amp.	
Description.	Cat. No.	Per Doz.	Cat. No.	Per Doz.	Cat. No.	Per Doz.
Polished brass or *steel bronzed fluted cover	0652 0653	14/6 16/8	0659 0660	25/- 27/-	0664 0665	50/- 55/-
handle Polished brass plain cover Polished brass plain insulated cover Polished brass plain insulated cover	0654 0655 0656	18/9 14/6 16/8	0661 0662	25/- 27/-		
and handle China cover	0657 0658	18/9 16/8	0663	29/-	0666	52/6

,, black bases

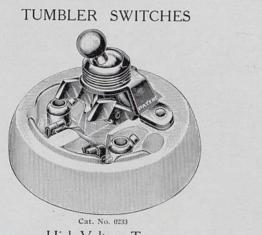
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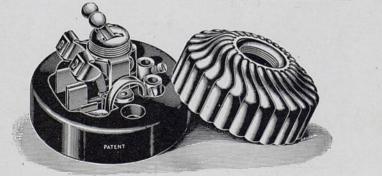
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## High-Voltage Type.

Thoroughly reliable and of high- class finish. Supplied in plain or fluted, polished brass or steel	Cat. No.	Amp.	Per Doz.
bronzed covers, with black or white porcelain bases.	0233 0234	5	15/6
For steel-bronzed covers add 'B' to Cat. No.	0234 0235	10 20	36/- 120/-



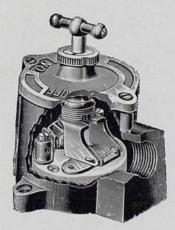
### Cat. No. 0245 Two-Way Type.

These switches have two "off" and two "on" positions and can be switched on or off from either of two positions. They are suitable for many special purposes. When used with a 3-light fitting it is possible to switch one, two or three lights on or off as desired. They are also suitable for use on distribution boards, with radiators, for intermediate wiring, etc.

Cat. No.	High Voltage, Single-	Pole Swit	ches.	Р	er Do	oz.
0245	Polished brass cover.	5-amp.		 1	15	0
0246	China cover.			 1	18	0

Electrical Accessories

## TUMBLER SWITCHES



Cat. Nos. 0256-8

Weatherproof-Type "A."

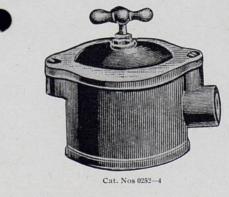
With double clip contacts, also positive and toggle action. Supplied in cast-iron cases. Both cover and handle are nickel-plated. The outlets are tapped to take  $\frac{1}{2}$ " gas tube. Suitable for circuits up to 260 volts.

Cat.	Amps.	No. of	Price		
No,		Ways	each		
0255 0256	5 · 10	1 1	s. d. 7 6 12 6		
0257	5	2 2	10 0		
0258	10		18 3		

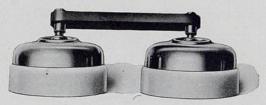
### $We a therproof-Type \ ``B \ ''$

With rotary action. In castiron cases. Covers are provided with rubber gaskets. The switch handles are led in through glands to guard against the entrance of moisture or gases. The outlets are  $\frac{5}{8}$ " dia. untapped, for conduit as required. Single-pole. 260 volts.

Cat. No.	Amps.	Price	
1000	1.000	s.	d
0252	4	4	0
0253	6	5	6
0254	10	8	0



"TRAFFORD" TUMBLER SWITCHES Double Pole.

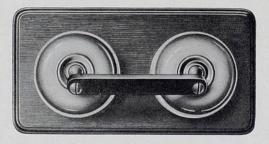


#### Cat. No. 02401.

### UNMOUNTED TYPE.

 $M^{\rm ADE} ~ {\rm UP} ~ {\rm from} ~ {\rm two} ~ {\rm of} ~ {\rm our} ~ {\rm single-pole} ~ {\rm switches}, ~ {\rm coupled} ~ {\rm together} ~ {\rm by} ~ {\rm means} ~ {\rm of} ~ {\rm a} ~ {\rm polished} ~ {\rm ebonite} ~ {\rm bar}. ~ {\rm The} ~ {\rm switches} ~ {\rm being} ~ {\rm completely} ~ {\rm insulated} ~ {\rm from} ~ {\rm each} ~ {\rm other}, ~ {\rm form} ~ {\rm one} ~ {\rm of} ~ {\rm the} ~ {\rm safest} ~ {\rm and} ~ {\rm most} ~ {\rm useful} ~ {\rm types} ~ {\rm of} ~ {\rm double-pole} ~ {\rm switches}.$ 

Cat. No.	Capacity.	Description.					
02401	5-amp.	Flat type, with plain polished brass covers	doz.   33/-				
02402	10 ,,	Dome,, ,, fluted ,, ,, ,,	48/-				
02403	15 ,,		75/-				



#### Cat. No. 02333.

#### MOUNTED TYPE

THESE switches are mounted on substantial polished teak wood bases, and are similar in all other respects to the unmounted type.

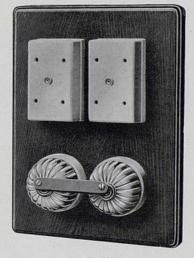
Cat. No.	Cap	pacity. Description.						Pe do:		
02333	5-:	amp.	Flat t	vpe.	with	plain	polished	brass	covers	42
0239	10		Dome			fluted				60
0242	15							**		90
0237	5					china	covers	.,		48
0240	10		.,						**	89
0243	15								,,	150
0238	5				ir	sulate	d brass or		bronzed	48
0241	10								Covers	86
0244	15						• "		Leoners	125

For steel bronzed covers add "B" to Cat. No.

Electrical Accessories.

## "TRAFFORD" DOUBLE-POLE TUMBLER SWITCHES

With Fuses.



Cat. No. 02406.

THE SWITCHES used are the same as those described on page 7. They are mounted on a polished teak wood base together with two porcelain type cut-outs, the complete board having a very neat appearance.

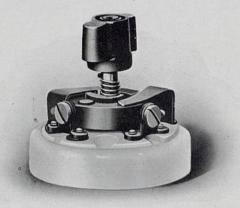
Considerable trouble is saved when installing, as the switches and cut-outs can be fixed with one operation.

Cat. No.	Capacity.	Description.	Per doz.
02404	5-amp.	Flat type plain polished brass covered switches, with two bow-shaped cut-outs	62/-
02405	10 ,,	Dome type fluted polished brass covered switches, with two oblong shaped cut-outs	95/-
02406	15 ,,	ditto ditto	130/-

For switches with steel bronzed covers add "B" to Cat. No.

II

TRAMCAR SWITCHES 600 Volt. Single Pole.



#### Cat. No. 05278

THESE SWITCHES are designed for use on high voltages and are therefore specially adapted for tramcar service. They have a very quick quadruple break. The bases are of white porcelain and are made solid or slotted. The covers are of polished brass, lined with insulating fibre and the handles are of ebonite. The switches can be supplied fitted with discs for indicating when they are "on" or "off," and are made in 5, 10 and 20-ampere sizes. If desired the switches can be fitted with a special lock attachment instead of the ebonite handle.

Cat. No.	Capacity.	Description.	Price Each
05278	5 amp.	Solid base	. 2/6
05279	5 ,,	Slotted ,,	0/0
05280	5	Solid ,, indicating	
05281	5 ,,	Slotted ,, ,,	0/0
05282	10	Solid base	. 5/9
05283	10 .,	Slotted .,	5/0
05284	10 ,,	Solid " indicating	E IO
05285	10 ,,	Slotted ,, ,,	5/0
05286	20 ,,	Solid base	. 11/3
05287	20 ,,	Slotted ,,	
05288	20 ,,	Solid " indicating	and the second se
05289	20 ,,	Slotted ,, ,,	11/6

EXTRA

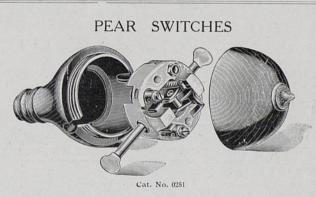
For special lock attachment add letter "L" to Cat. No. and 9d. to list price. Electrical Accessories

## TRAMCAR SWITCH-FUSE

### 600 Volt. Single Pole.

THIS CONSISTS of a brown porcelain base and cover, in which are contained a quick-break quadruple switch and a small cartridge fuse. It is admirably adapted for tramcar work. The cover is slotted to indicate when the switch is "on" or "off."

Cat. No. 05291-3-ampere switch-fuse ... Price 4/6 each. 05346-Spare fuses ... ... 11/6 per doz.



#### Best Quality.

THIS SWITCH has an easy tumbler action with a long and rapid break. Can be supplied in polished cocus wood, mahogany, oak, ebonized boxwood, or white enamelled.

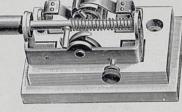
Cat. No.			1972	Per doz.
0251	One-way	 	 	$\begin{array}{c} \pounds 2 & 15 & 0 \\ \pounds 3 & 10 & 0 \end{array}$
05289	Two-way	 	 	£3 10 0

For white enamelled switches add "E" to Cat. No. and 15/to list price.

#### Ordinary Quality.

Cat. No.		Per doz.
0250	In polished cocus wood, one-way	$\begin{array}{c} \pm 1 & 14 & 0 \\ \pm 2 & 0 & 0 \end{array}$
05290	,, ,, ,, two-way	$f_{2}^{2}$ 0 (

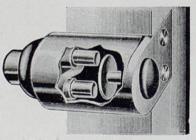
DOOR SWITCHES



Cat. Nos. 0247-8 Showing switch with cover removed.

N<sup>EAT</sup> and compact. The switch is actuated by the door pressing against the plunger. Can be arranged so that opening the door either switches on or off as desired. Is provided with a ratchet movement and an insulated cover. For use on circuits up to 260 volts.

Cat. No.	Amps.	Price Each
0247	1	s. d. 3 0
0248	11	5 2



Cat. No. 0472

#### Lavatory or Bolt Switch.

THIS switch is contained in a heavy cast-metal barrel. The current-carrying parts are mounted on china. The switch is actuated by so arranging the bolt of a door that it is in line with the switch. When the door is closed and bolted, the bolt presses against the plunger and switches on the light. When the bolt is withdrawn the light automatically goes out.

Cat. No. 0472 ... Price 8/6 each.

Electrical Accessories

LAMPHOLDERS







Cat. Nos. 0119 and 0126

Cat. Nos. 0118 and 0125

Cat. Nos. 0120 and 0127

THE lampholders listed below are of substantial finish and are thoroughly insulated, rendering them suitable for use on

high voltages. They can be supplied in polished brass or aluminium, or with a steel bronze finish. The aluminium holders are especially recommended for installation in positions where, due to the presence of chemical action, brass holders might deteriorate. They are also most suitable for use with nickel or silver-plated fittings.

#### PRICES

#### For polished-brass, aluminium or steel-bronzed.

Size of	Ordinary	Quality.	Best Qi	iality.
Thread.	Cat. No.	Per Doz.	Cat. No.	Per Doz
	Without Sha	de Carrier o	r Cord Grip	
Ins. <sup>378</sup> <sup>1</sup> 2 <sup>5</sup> 38	0116 0119 0121	5/3	0123 0126 0128	6/6
	With a	Shade Carrie	r only.	
300-12400	0117 0120 0122	6/-	0124 0127 0129	7/-
	With Shade	Carrier and	Cord Grip.	
_	0118	6/8	0125	8/-

For aluminium holders add the letter "A" to catalogue number. ", steel-bronzed ", ", "B" """, " The ordinary quality can be supplied with Edison screw at the same price; when ordering add "C" to Cat. No. Cat. No. 0139

The British Westinghouse Electric and Mfg. Co., Ltd.

## SWITCH LAMPHOLDERS

O<sup>F</sup> STRONG construction and good design. They have a reliable quick break action. The handles are of ebonite. Supplied in two types (1) with rotary action, and (2) with knife-switch action.

The latter type is made up of heavier metal parts, and is provided with a china cap to divide and insulate the plungers.

The prices given below are for polished brass, aluminium, steelbronzed, or Edison screw holders.

## Without Shade Carrier or Cord Grip

Size of	With Rot	ary Action	With Knife-Switch Action		
Thread	Cat. No.	Per Doz.	Cat. No.	Per Doz	
<u>3</u> 8	0130	s. d. 15 0	0137	£ s. d 1 3 0	
$\frac{1}{2}$	0133	15 0	0140	1 3 0	
58	0135	15 0	0142	1 3 0	

With Shade Carrier only

<u>3</u> 8	0131	15	6 ·	0138	1	4	0
$\frac{1}{2}$	0134	15	6	0141	1	4	0
<u>5</u> 8	0136	15	6	0143	1	4	0

With Shade Carrier and Cord Grip

-

0132

16 6 0139

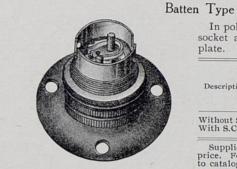
1 5 0

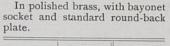
For aluminium holders add the letter "A" to catalogue number.

,, steel-bronzed ,, ,, ,, "B" ,,

,, Edison-screw ,, ., ., ., ., ., ., ., ., .,

16





	Ordinary		Be	st
Description	Cat.	Per	Cat.	Per
	No.	doz.	No.	doz.
Without S.C.	0144	6/3	05692 05693	7/9
With S.C	0145	7/3		8/3

Supplied in aluminium at same price. For aluminium add letter 'A' to catalogue number.

Cat. No. 0145

#### Miniature Type With bayonet socket. In polished brass finish only.

Electrical Accessories

LAMPHOLDERS

Cat. No.	1	Descri	ption		Per Doz
0146	3⁄8" plain			 	 5/3
0147	3/8" with S.C.			 	 6/-
0148	With S.C. and	C.G.		 	 6/8
05293	Batten, plain			 	 6/-
05294	" with S	.c.		 	 6/9

### Weatherproof Type (All china.)

For mounting on strips, borders, ceiling blocks, casings, etc., either metal or wood.

17

Moisture is prevented from entering this lampholder by means of a rubber ring.

Dimensions Outside dia. base 2<sup>1</sup>/<sub>4</sub>" ,, ,, barrel 1<sup>8</sup>/<sub>8</sub>" Screw holes spaced 1<sup>4</sup>/<sub>4</sub>"

Cat. No.	Description	Per Doz.
05347	B.C. holder with rubber ring	7/9
05348	Ditto without ring	7/4
05349	Edison Screw holder, with bolts	13/9



Cat. No. 05347

## "TRAFFORD" GOLIATH LAMPHOLDERS

FOR HIGH CANDLE-POWER METAL-FILAMENT LAMPS



Cat. No. 03042

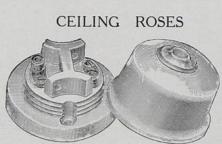
 $I^{N}$  order to provide a suitable holder for the high candle-power metal-filament lamps which are now becoming more or less extensively used, a special lampholder has been designed which is capable of taking lamps of from 400 to 1000 c.-p. It is provided with a  $1\frac{1}{2}^{\prime\prime}$  Edison screw. The contacts are of copper and all current carrying parts are liberally designed.

The holder is  $3\frac{5}{16}$ " in length and is tapped to take  $\frac{5}{8}$ " male thread.

It has a neat polished brass finish.

Catalogue No.		Price
03042	Edison screw holder	3/6 each.

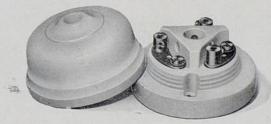
The high candle-power "Auriga" metalfilament lamps are made to fit these holders, for particulars of lamps see List No. 102.



Electrical Accessories

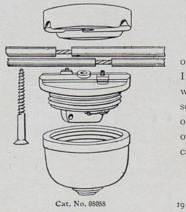
Cat. Nos. 063-4

THESE are of the loop-in type, with the "H" form of insulation between terminals. The best English porcelain is used in their manufacture. The terminals are large and are securely fastened to the base The porcelain bridges, by means of the holes therein, partially support the flexible wire and pendant, thus taking the dead weight off the terminals. The bases are  $2\frac{1}{2}$ " diameter.



Cat. No. 065

Cat. No.		Descripti	011		Per doz
063	One-way,	ordinary		 	 4/4
064		best		 	 6/6
065	Two- ,,	three plate		 	 6/-



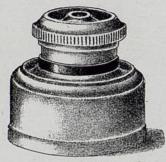
#### Cleat Type

This type\_has several advantages over the ordinary type of ceiling rose. It eliminates the necessity of cutting wires, of jointing, of looping-in, of soldering, and reduces the amount of time required for fixing to about one-sixth. Suitable for any size of cable between  $\frac{1}{18}$  to  $\frac{7}{18}$  S.W.G.

Cat. No.		Price
05055	 	10/- per doz.

The British Westinghouse Electric and Mfg. Co., Ltd.

## WALL PLUGS AND SOCKETS

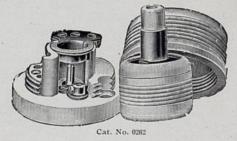


THESE are made to limit gauges, thus ensuring perfect contact and easy working of the plugs and sockets. The terminals are substantial and ample for carrying the currents indicated. The china and cocus hard wood used are of the highest quality. The two-pin differential type listed below is specially designed for use on arc and mercuryvapour lamps or power circuits.

Cat. No. 0265

The pins and sockets each are made with different diameters. It is only possible, therefore, to insert the plug one way, thus ensuring the correct polarity.

All types are suitable for use on circuits up to 260 volts.



#### Two-Pin Type.

Cat. No.	Amps.	Descript	ion.		P	er Do	oz.
0264	5	Cream china			6	s. 13	d. 6
0265	5	Cocus wood			Ő	15	ŏ
0266	10	Cream china			ĩ	10	õ
0267	10	Cocus wood			ī	16	ŏ
02746	•	vo-Pin Differential	1	1	1	16	0
02746		vo-Pin Differential Cream china	Туре.		1	16	0
02746 02747	•	T and the second	1		1 2	16 10	000
	. 10	Cream china			12		1000
	. 10	Cream china Cocus wood			1 2 1 2		1000

20

	Weatherproof	Туре
		8
		T
Cat. No. 0268-Plug		02
-		
		~

Electrical Accessories

WALL PLUGS AND SOCKETS

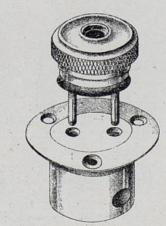
Cat. No. 0268-Socket

#### Concentric Type

Socket in cast-iron case, with brass lid, cap (screwed) and chain. Plugs supplied with untapped brass cap-outlet § in. diameter.

Cat. No.	Amps.	Price each
0268	4	£ s. d. 0 13 0

Price includes plug and socket complete.



Cat. Nos. 0269-70

#### Two-Pin Type

Socket in cast-iron case with rubber gasket between lid and case. Com-plete with brass cap and chain. Tapped for  $\frac{1}{2}$  in, gas barrel.

	Plug only.		Socket	et only.	
Amps.	Cat. No.	Price each.	Cat. No.	Price each.	
5 10	05694 05695	4/3 10/6	0269 0270	6/9 12/9	

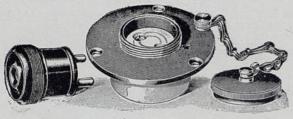
## Flush Type

With heavy cast brass flange, turned and lacquered, and spun on English china base.

Cat. No.	Size Amps.	Description	Per doz.
01729	3	China plug	16/-
01730	3	Cocus ,,	18/9
01731	5	China ,,	20/-
01732	- 5	Cocus ,,	22/-
01733	15-20	China ,,	40/-
01734	15-20	Cocus ,,	70/-

Cat. No. 01730

## FLUSH PLUGS AND SOCKETS



Cat. No. 01737

#### Admiralty Pattern

THIS plug is fitted with a heavy brass flange, screwed to take a brass cap when the connecting plug is not in use. Finished in polished brass or bronze, with special extended barrel cocus plug. Diameter of front plate, 3 inches.

Cat. No. 01737.

Price each - - 8/6



## Panel Type.

Flush type sockets, fitted with polished cocus fronts, and cocus-covered plugs.

Cat. No.	Size	Price per doz
01735	3 amp.	32/-
01736	5 amp.	37/-

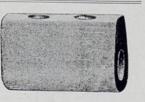
Cat. No. 01735-6

## "INDISPENSO" CONNECTORS

NVALUABLE for connecting wires to flexible cords in electroliers and fittings. They dispense with jointing, and ensure good insulation. Will take thin flexible wire and up to 7/17 cable.

> Cat. No. 0310. 5/6 per doz.

> > 22





Showing connector which is embedded in china

Electrical Accessories

## STAGE FLOOR SOCKETS AND PLUGS

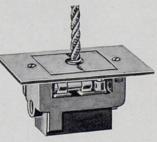




Cat. No. 0271

THE floor socket is enclosed in a cast-iron box, having a brass 1 top fitted with a snap lid. The plug is of polished wood and is arranged with a double-pole fuse. Taped for \$" tube. Suitable for use up to 6 amperes 125 volts.

Price 8/6 each. Cat. No. 0271 ... ... ...





Cat. No. 0272

"HIS is generally similar to the above type. The differences being that the brass lid is divided and the plug is of porcelain with non-interchangeable poles. Suitable for use on circuits up to 260 volts, and 6 amperes capacity.

Cat. No. 0272 ... ... Price 11/- each.

The British Westinghouse Electric and Mfg. Co., Ltd.

PLUG ADAPTORS

#### Electrical Accessories



For connecting to bayonet socket lampholders, affording a ready means for enabling the current to be used for temporary lights, table standards, small fan motors, electric irons, etc.



Cat. No.	Description.		Per Doz.
0166	In porcelain		 6/6
0167 0168	In polished brass		 8/9
0169	In cocus wood		 9/6
0109	In porcelain and cocus	wood	 8/-

## CUT-OUTS

For use on high-voltage circuits. Arranged with bridge insulation and ventilated covers. The bases and covers are made of best English porcelain.



Cat. No. 068

	Cat. No.	Amps.	Per Doz
	Single-	Pole-Bow	Shape.
1 12	068 069	5 10	4/4 5/3
Cat. No. 070		1	-1-

Cat. No.	Amps.	Per Doz.	Cat. No.	Amps.	Per Doz
Single	Pole-O	blong.	Double	e Pole-C	blong.
070 071 072	5 10 20	6/9 12/- 14/6	073 074 075	5 10 20	12/6 18/- 34/-

24

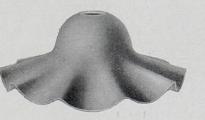
Fusing Current	Catalogue	Standard	Supplied	Price
in Amperes.	No.	Wire Gauge.	in	per ll
		Lead Wire.		
1.89	0538	30	Reels	s. d 7 0
2.47	0539	28		5 0
3:32	0540	26		4 0
4.49	0541	24 23	-11	2 9 2 9
5.12	0542	25		2 9
6·45 7·88	0543 0544	22 21		2 9
9.41	0545	20	Hanks	2 6
10.99	0546	19		2 0
14.4	0547	18	11	2 0
22.2	0548	16	,,	2 0
31.1	0549	14		1 9
38.4	0550	13	"	1 9
46.2	0551	12	••	1 3
2.98	0552	nned Copper Wi	re. Reels	8 6
and the second se	and a state of the		recis	8 3
$     3.83 \\     4.75 $	0553 0554	39 38	••	7 0
5.73	0555	37	.,	7 0
6.78	0556	36	,,	6 9
7.88	0557	35	11	6 3
9.03	0558	34		5 9
10.19	0603	33		5 3
14.09	0604	30 27		5 C 4 C
21:49	0561			
$24.69 \\ 47.99$	0562 0563	26 22	"	4 0 3 6
69.99	0564	20	Hanks	3 0
		Tin Wire.		
1.08	0523	36	Reels	14 0
1.44	0524	34	,	12 0
1.83	0525	32		10 6
2.26	0526	30 28	,,	10 0 9 0
· 2.95 3.96	0527 0528	28 26		7 9
5.35	0529	24	"	7 6
7.68	0530	22	,, ,,	6 6
11.20	0531	20	Hanks	6 0
17.25	0532	18		5 9
26.57	0533	16	,,	5 6
37.14	0534	14		
55.06 75.18	0535 0536	12 10		5 6 5 6
117.90	0536	8	**	5 6

Prices subject to market fluctuation.



Conical 11" opening.

Size		White Opal		Winte Opai Green & White Opai Blue ou		Green & White Opal			melled In side.White	
Dia.	Approx. Depth	Cat. No.	Price per gro	oss	Cat. No.	Pric per gr	and the second second	Cat. No.	Pric per gr	200300
$\begin{array}{c} 6'' \\ 8'' \\ 9'' \\ 10'' \\ 12'' \\ 15'' \\ 18'' \\ 24'' \end{array}$	$\begin{array}{c} 2'' \\ 2\frac{12''}{3''} \\ 3\frac{12''}{4''} \\ 4'' \\ 5'' \\ 6'' \\ 8'' \end{array}$	0171 0172 0173 0174 0175 0176 02889	£ s. 2 8 2 16 3 3 3 6 5 10 9 12 21 0	d. 000000000000000000000000000000000000	05296 05297 0177 0178 05298 05299 05300	$\begin{array}{c} \pounds & s. \\ 6 & 0 \\ 7 & 10 \\ 8 & 10 \\ 9 & 6 \\ 17 & 0 \\ 31 & 5 \\ 62 & 10 \\ \end{array}$	d. 0 0 0 0 0 0 0	0179 0180 0181 0182 0183 04157 04165	$\begin{array}{c} & & s. \\ & & - \\ & & 3 & 4 \\ & 3 & 12 \\ & 4 & 0 \\ & 6 & 8 \\ 10 & 10 \\ & 18 & 5 \\ & 57 & 10 \end{array}$	d. 0 0 0 0 0 0 0 0



Cat. Nos. 04125-7

"Langham" White Opal. 11" opening.

Cat. No	Size	Per gross
04125	6"	2 10 0
04126	8"	3 2 0
04127	10"	3 12 0

26

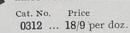


Tungsten For Metal-Filament Lamps.

White	Opal. $1\frac{1}{8}$	" opening.
Cat. No.	Size	Per gross
04128	$5^{3''}_{4} \times 6^{1}_{2}$	£ s. d. 3 7 0

For Holophane Glassware see List No. 128.

Electrical Accessories "FACILE" SPRING SHADE HOLDER Secures the shade firmly in position, with the minimum of trouble. Cat. No. Price 0311 ... 4/2 per doz. "FACILE" SHADE REMOVER Indispensable where narrow shades are used.



Cat. No. 0311

Cat. No. 0312

WIRE GUARDS For Protecting Incandescent Lamps



Cat. No. 0297 Adjustable guard. Fits on to ordinary lampholder without brass cap. 7s. 4d. per doz.



Cat. No. 0299 Similar to No. 0298, but of clover mesh. 10s. 3d. per doz.



Cat. No. 0298 With brass cap. 11/8" hole. 9s. 7d. per doz.



Cat. No. 0300 Strong, flat wire, with brass cap.  $1\frac{1}{8}$ " hole. 13s. 3d. per doz.

## BALL FITTINGS

W<sup>ITH</sup> split ball and loose ring. Complete with nipples screwed for <sup>1</sup>/<sub>2</sub>·inch lampholders. Supplied in polished brass or aluminium.

#### Without Shade Carrier Screwed for 5%-inch pipe thread.

Cat. No.	No. of Lamps.	Per Doz.
04	2	10/6
05	3	11/9
06	4	12/6
07	5	13/9





Cat. No. 09 Cat. No. 0580

Cat. No. 0581

With cord grip<br/>and shadeStem with cord grip and shadeWith bayonetand shade<br/>carrier.carrier for use with Nos.adapter.adapter.04 to 07 fittings.

Cat. No.	No. of Lamps.	Per Doz.	Cat. No.	No. of Lamps.	Per Doz.
With Cord	Grip and Sh	ade Carrier.	Stem with Co	rd Grip and a inch thread	Shade Carrier
08	2	12/-	0580		7/6
09	3	12/9			1/0
010	4	13/9	With	Bayonet Ad	lapter.
011	5	15/-	0581	3	21/3

For aluminium finish add letter "A" to Cat. No.





Cat. No. 05







0591 0593	State of the second	$\frac{4}{5}$		32/ 36/6
With	Stem	and	Cord	Grip.
	1			

Spider Pattern. WITH split ball and loose

holders. Supplied in polished brass or aluminium.

With Cord Grip.

No. of

Lamps.

2

3

Cat.

No.

0589

014

**W** ring, complete with nipples, screwed for  $\frac{1}{2}$ -inch

Per

Doz.

20/-26/-

0493	2	30/-
014A	3	36/-
0590	4	41/6
0592	5	46/-

For aluminium finish add letter "A" to catalogue number.

## ADAPTORS

THESE adaptors can be inserted in ordinary bayonet socket lampholders. Enabling low-voltage lamps to burn in series on high-voltage circuits, without altering the existing wiring.

Electrical Accessories

BALL FITTINGS

### Plain Type.

In porcelain and brass, with 4-inch spread between lampholders centres.

> Cat. No. **01022**. Price **38**/- per doz.

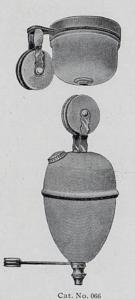
#### Fancy Scroll Type.

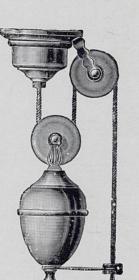
In polished brass, complete with s.c. lampholders. Spread between holders, 6 inch.

> Cat. No. 0221. Price 84/- per doz.



## COUNTERWEIGHTS AND PULLEYS





Cat. No. 06

China. Cream-coloured china counterweight, and polished brass metal fittings. Complete with pulley and ring, but without ceiling rose. Cat. No. Price 066 ... 12/- per doz.

Brass. All polished brass counterweight. Complete with pulley and ring, but without ceiling rose.

Cat. No. 067

Cat. No. Price 067 ... 19/6 per doz.

Shot for Counterweights ... 1/4 per lb.; 66/6 per cwt.

## INSULATED SCREW EYES AND HOOKS

Cat. No.	Size	Price	e per	gross
	AND PARLOND	£	s.	d.
1648	2"	0	18	0
1649	$2\frac{1}{2}''$	1	1	0
1650	3"	1	4	0

When ordering, please state whether hooks or eyes are required.

Electrical Accessories

## TWIN FLEXIBLE WIRE

#### Class "F."-Ordinary Quality.

SPECIFICATION,—Plain high conductivity copper wire, cotton lapped, one layer of vulcanized rubber, and braided silk, cotton or workshop finish.

Catalogue	Size of	Approx.	Price per gross yards,		
Number.	Conductor.	Equivalent in S.W.G.	Cotton or Workshop.	Silk.	
01654	35/40	22	27/6	38/6	
01655	70/40	19	46/6	62/6	
01656	130/40	17	72/6	97/6	

## Class "G."-Manchester Quality.

SPECIFICATION.—Plain high conductivity copper wire, single cotton covered, and insulated with pure rubber, 20 mils. total radial thickness, again single cotton covered, braided and twisted together, in silk, cotton or workshop finish.

Catalantus	Size of	Approx.	Price per gross yards.		
Catalogue Number.	Conductor.	Equivalent in S.W.G.	Cotton or Workshop.	Silk.	
01657	35/40	22	52/6	67/-	
01658	70/40	19	80/-	100/-	

## Class "H."-Glasgow Quality."

SPECIFICATION.—Plain high conductivity copper wires, lapped with a layer of cotton, then two layers of vulcanized rubber, having a total radial thickness of 30 mils., and containing 50 % of pure rubber, braided and twisted together in silk, cotton or workshop finish.

Catalogue	Size of Appr		Price per gross yards.		
Number.	Conductor.	Equivalent in S.W.G.	Cotton or Workshop.	Silk.	
01659 01660	35/40 70/40	22 19	70/- 105/-	82/6 125/-	

31

## "TRAFFORD" ANTIVIBRATORS

Cat. No.	Description	Price Per doz
05342 05343 05344 05345	Light, with single spring Medium, with double spring Heavy, with double spring Special, for workshop flexible	4/9



Ca

The British Westinghouse Electric and Mfg. Co., Ltd.

HAND LAMPS "Trafford" Safety Type





With ordinary Lampholder.

With Switch Holder.

Cat. No. 01727

Watertight Type.

 $\mathbf{S}^{\mathrm{PECIALLY}}$  designed to meet the stringent regulations of the Home Office, and to eliminate all risk of danger due to exposed metal parts. The lampholder and lamp cap are entirely enclosed in a substantial and highly polished hardwood handle. The flexible leads are brought in through a special screwed fibre nipple and a soft rubber bush, which grip the flexible and effect a thoroughly watertight connection.

Made in two types for interior or exterior use, with or without switch. The outdoor type is rendered completely watertight by the provision of a well-glass and rubber packing glands.

The lamp cages can be sealed to the handle, thus preventing unauthorised persons from tampering with the lamp.

The prices below include lampholders but not lamps.

Cat. No.	Description.	Price Each.	Per Dozen.
01725	With ordinary holder	9/6	5 8 0
01726		10/6	6 6 0
01727	,, ordinary holder, watertight	10/6	6 6 0
01728	,, switch holder ,,	11/6	6 18 0







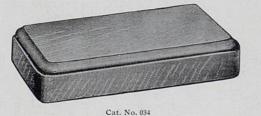
## WOOD BLOCKS

MANUFACTURED from thoroughly seasoned wood, well made and highly finished. The patterns are exceptionally neat and the blocks are amply recessed at the back.

Round Patterns.

1" thick, for ceiling roses, etc.

Dia. of		igh. eec			lmi W				V Ena	Whi		int.		Real				leal alnu		
Base Ins.	Cat. No.		Per iros		Cat. No.		Per Gros		Cat. No.		Per		Cat. No.		Per		Cat. No.		Per	s
3	05257	£	s. 17	d. 0	05242	£	s. 17	d. 0	_	£	s.	d.	05249	£ 1	s. 7	d. 0	05250	£ 1	s. 7	0
31	015	1.50	17	6	05243	3	17	6	021	1	18	6	027	1	7	6	05251	1	7	(
4	016	1	2	6	05244	1	2	6	022	2	2	0	028	2	0	0	05252	2	0	(
41	017	1	5	6	05245	1	5	6	023	2	17	0	029	2	7	6	05253	2	7	(
5	018	1	13	0	05246	1	13	0	024	3	14	0	0301	2	17	6	05254	2	17	(
51	019	2	0	0	05247	2	0	0	025	4	16	0	0302	3	10	0	05255	3	10	(
6	020	2	7	6	05248	2	7	6	026	5	18	0	0303	4	0	0	05256	4	0	(



Rectangular Pattern. With rounded corners for switches, etc.

Outside Dimensions	No. of Switches suitable for	b Light Beech			Imitation Walnut				Real 'eak		Real Walnut	
Ins.	Swi Swi suita	Cat. No.	Per Gros	s	Cat. No.	Per Gross	5	Cat. No,	Per Gross	Cat. No.	Per Gross	
$3\frac{1}{2} \times 3\frac{1}{3} \times 1$	1	033	£ s. 2 1	d. 0	05258	£ s. 2 1	d. 0	053	£ s. d 2 4 0		£ s. 2 4	d
$3 \times 5\frac{1}{4} \times 1$	2	-	-		-	-		05278	380	05279	3 8	0
$3\frac{1}{2} \times 6\frac{1}{2} \times 1$	2	034	2 11	6	05259	2 11	6	054	3 10 0	05269	3 10	(
$3\frac{1}{2} \times 9\frac{1}{2} \times 1$	3	035	4 1	0	05260	4 1	0	055	4 11 6	05270	4 11	6
$3\tfrac{1}{2} \times 12\tfrac{1}{2} \times 1$	4	036	5 0	0	05261	5 0	0	056	650	05271	6 5	(
$6^1_{\overline{2}} \times  6^1_{\overline{2}} \times 1^1_{\overline{4}}$	4	037	5 10	0	05262	5 10	0	057	670	05272	6 7	(
$6\frac{1}{2} \times 9\frac{1}{2} \times 1\frac{1}{4}$	6	038	6 15	0	05263	6 15	0	058	800	05273	8 0	(
$6\tfrac{1}{2} \times 12\tfrac{1}{2} \times 1\tfrac{1}{4}$	8	039	8 15	0	05264	8 15	0	059	10 5 0	05274	10 5	0
$9\frac{1}{3} \times 9\frac{1}{2} \times 1\frac{1}{4}$	9	0304	9 2	0	05265	9 2	0	0307	10 10 0	05275	10 10	(
$9^1_2 \times 12^1_3 \times 1^3_4$	12	0305	10 18	0	05266	10 18	0	0308	13 0 0	05276	13 0	(
$12\tfrac{1}{2} \times 12\tfrac{1}{2} \times 1\tfrac{3}{4}$	16	0306	13 15	0	05267	13 15	0	0309	16 2 0	05277	16 2	(

34

Electrical Accessories

## CASING AND CAPPING

O<sup>F</sup> best American whitewood, for electric light wires and cables, double groove, with capping (cover) suitable for being screwed down either at the outer edges or in the centre.

Cat. No.	Total Width	Width of Groove	Price per 1000 ft.
02891	111"	<u>3</u> ″	46/-
02892	$1\frac{1}{4}''$	<b>1</b> ″	58/-
0516	$1\frac{1}{2}''$	$\frac{1}{4}''$	64/-
0517	$1\frac{3''}{4}$	<u>5</u> ″	73/-
0518	2″	<u>3''</u>	100/-
0520	$2\frac{1}{2}''$	$\frac{1}{2}^{\prime\prime}$	130/-
02893	3″	57	145/-
02894	$3\frac{1}{2}''$	<u>3</u> " 4	160/-
02895	4"	<del>7</del> ″	190/-

### BRASS CAPPING SCREWS FLAT HEAD

Cat. No.	Size	Price per Gross
02172	$\frac{1}{2}'' \times 4$ 's.	1/6
02173	$\frac{5''}{8}$ × 4's.	1/8
02174	$\frac{3''}{4}$ × 4's.	1/10
02175	$\frac{3''}{4}$ × 6's.	2/3
02176	$1'' \times 6$ 's.	2/9

#### ROUND HEAD

Cat. No.	Size	Price per Gross
02177	$\frac{1}{2}'' \times 4$ 's.	· 1/10
02178	$\frac{5}{8}'' \times 4$ 's.	2/3
02179	$\frac{3''}{4}$ $\times$ 4's.	2/9
02180	$\frac{3''}{4}$ $\times$ 6's,	3/-
02181	$1'' \times 6$ 's.	3/6

- 35

The British Westinghouse Electric and Mfg. Co., Ltd.

## JOINTING AND INSULATING MATERIAL

For Installation Work.

Cat. No,	DESCRIPTION	Price
04161	Special quality, Prepared Black Adhesive Tape, $\frac{1}{2}'', \frac{3}{4}'', 1''$ wide, approx. $\frac{1}{2}$ lb. rolls	2/3 lb.
0115	<b>*</b> Vulcanized Para Rubber Tape, $\frac{1''}{2}$ , $\frac{3''}{4}$ , $1''$ wide, approx. $\frac{1}{2}$ lb. rolls	18/9 ,,
0473	<ul> <li>★Pure Para Rubber Strip, <sup>1</sup>/<sub>2</sub>," <sup>3</sup>/<sub>4</sub>", 1" wide, approx.</li> <li><sup>1</sup>/<sub>2</sub> lb. rolls</li> </ul>	24/9 ,,
0487 0476	India Rubber Solution, 1 oz., 2 oz., 4 oz. tubes Do. do. do. $\frac{1}{4}$ lb., $\frac{1}{2}$ lb., 1 lb. tins	5/- ,, 4/6 ,,
01651	Chatterton's Compound, 1/4 lb. sticks	6/- ,,
01652 01653 01743 01744 01745	Patent Box Filling Compound, 7 lb. tins             Do.         do.         14, 28, 56 lb. tins           Do.         do.         14 lb. buckets            Do.         do.         28 lb. do.            Do.         do.         1 and 2 cwt. kegs	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
01746 01747 02896 01748	Burnett's Soldering Paste, 3 oz. tins              Do.         do.         4 oz. tins             Do.         do.         8 oz. tins             Do.         do.         16 oz. tins	7/6 doz 12/- ,, 20/- ,, 40/- ,,
01749 01750	Uneeda Soldering Paste, 2 oz. tins Do. do. 5 oz. tins	9/- ,, 18/- ,,
01751 01752 01753 01754	Baker's Soldering Fluid, 6d. stone bottles             Do.         do.         1/-         do.             Do.         do.         2/-         do.             Do.         do.         1 gallon jars	8/- ,, 16/- ,, 32/- ,, 96/- ,,
01755 01756 01757	Resin, ordinary quality <th< td="" th<=""><td>4d. lb. 5d. ,, 6d. ,,</td></th<>	4d. lb. 5d. ,, 6d. ,,
01758 01759 01760	Fine Solder, best qualityThick do.doPatent Self-flux Solder	2/- ,, 2/- ,, 3/9 ,,

**\*** Subject to market fluctuation.  $_{36}$  .

Electrical Accessories

## JOINTING AND INSULATING MATERIAL

Cat.	DESCRIPTION	Price
No.		
01761	B.W. Clear Insulating Baking Varnish	21/- gal.
01762	B.W. Waterproof Insulating Varnish	25/- ,,
01763	B.W. Heat Conducting Enamel	32/- ,,
01764	B.W. Finishing Varnish, No. 1 quality	17/- ,,
01765	Do. do. No. 2 do	25/- ,,
01766	Shellac Varnish, superfine quality	25/- ,,
01767	Do. do. fine quality	18/- ,,
01768	Empire Cloth, 7 mils., 36" wide, 25, 50, or 100 yard	
	rolls	4/- yd,
01769	B.W. Black Varnished Tape, 8 mils., 36 yard rolls	$12/\text{-}\underset{\mathrm{yds.}}{\mathrm{gross}}$
01770	Egyptian Tape, ¼" width	4/2 ,,
01771	Do. do. $\frac{1}{2}''$ do	5/2 ,,
01772	Do. do. ¾" do	6/8 ,,
01773	Do. do. $1\frac{1}{4}^{\prime\prime}$ do	10/- ,,
01774	White Cotton Insulating Tape, 36 yard rolls, $\frac{1}{2}''$ width	3/2 ,,
01775	Do. do. do. do. $\frac{3''}{4}$ do.	4/- ,,
01776	Do. do. do. do. 1" do.	5/2 ,,
01777	Do. do. do. do. $1\frac{1}{2}''$ do.	7/- ,,
01778	Elastic Webbing, 36 yard rolls, 1/2" width	4/10 ,,
01779	Do. do. do. $\frac{3}{4}$ do	5/6 ,,
01780	Do. do. do. 1" do	6/8 ,,
01781	Do. do. do. $1\frac{1}{4}$ " do	8/- ,,
01782	Do. do. do. $2^{\prime\prime}$ do	12/2 ,,
01783	Leatheroid Sheets, approx. 40"×72", 5 mils	3/4 lb.
01784	Do. do. do. do. 7 do	3/4 ,,
01785	Do. do. do. do. 10 do	3/4 ,,
01786	Do. do. do. do. 20 do	3/10 ,,
01787	Do. do. do. do. 30 do	4/2 ,,
01788	Fullerboard Sheets, 36"×36", 7 mils	5d. sheet
01789	Do. do. do. 10 do	8d. "
01790	Do. do. do. 15 do	1/3 ,,
01791	Presspahn Sheets, $36'' \times 36''$ , $\frac{1}{32}'' \cdots \cdots \cdots \cdots \cdots$	1/5 ,,
01792	Do. do. do. $\frac{1}{16}$ "	2/6 ,,
01793	Do. do. do. $\frac{1}{8}'' \dots \dots \dots \dots$	5/6 ,,

Cat.

No.

01794

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JOINTING AND INSULATING MATERIAL

DESCRIPTION

Treated Paper Sheets, 40" × 40", 6 mils. ... ...

Vulcanized Fibre Sheet (red or grey), 40"×70"

do.

do.

do.

do.

do.

do.

do.

Ebonite, best quality Sheets,  $24'' \times 20''$ ,  $\frac{1}{8}'' - 1'' \dots$ 

do.

do.

do.

do.

Micanite Paper, sheets 40"×40", 5, 7, and 11 mils.

Flexible Mica Sheets, 28"×36", 10, 20, 30 mils. ...

B.W. Plastic Mica Cloth, specially impregnated,

B.W. Mica Plate, best quality (amber), sheets17" × 35"

Paraffin Wax ... ... ... ... ... ... ... ...

Special Insulating Impregnating Compound, packed

Oil Proof Cement ... ... ... ... ... ... ...

Sulphur Cement for Porcelain ... ... ... ...

B.W. Perfect Arc Proof Asbestos material, can be

in 7 lb. boxes ... ... ... ... ... ... ...

sheets  $36'' \times 30''$ , 12 mils. ... ... ...

do. special quality ... ... ... ...

do.

Asbestos Millboard Sheets,  $30'' \times 40''$ , 10 mils.

do.

do.

do.

do.

do.

do.

do.

do.

Rods, 24" lengths

do.

do.

do.

do.

do.  $40'' \times 40''$ ,  $\frac{1}{16}''$  and  $\frac{1}{8}''$  ...

do.

moulded any shape

Do. Cloth, do.

Vulcanized Fibre Rod (red) 3' lengths

Do.

Price

4/- 1b.

2/4 ,,

3/2 ,,

3/8 ,,

4/10 ...

7/8 "

10/8 ..

9/- ,,

9/- ,,

9/4 ...

10/- ,,

9/6 ,,

7/8 ,.

6/4 ...

10/- ,,

8d. "

8d. "

8d. "

6/8 ,,

6/8 ,,

5/- ,,

17/- lb.

7/- ,,

1/- ,,

6/- box

1/6 lb.

8d. "

3/2 "

4/2 sheet

10/8 ,,

 $\frac{1}{16}'' \& \frac{1}{2}'' \dots$ 

3" & 1" ...

11" & 11" ...

... 1/" ...

 $\frac{1''}{2} - \frac{3''}{4} \cdots$ 

1"-11" ...

11"-2" ...

3" ...

 $\frac{1}{4}'' - \frac{1}{2}'' \dots$ 

5"-2" ...

21"-41" ...

do. 25 do. ...

do. 10 do.

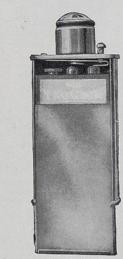
13" ....

 $\frac{3''}{4}$  ...

18" ...

Electrical Accessories

## "TRAFFORD" ELECTRIC POCKET LAMPS



THIS is a most useful article for every household, it provides an excellent emergency light in the bedroom. It is invaluable for cyclists, motorists, postmen, doctors, the police, gas and other inspectors, watchmen. etc.

It is compact, strong and reliable. It fits the waistcoat pocket and is suitable for continuous or momentary light. Will burn for from four to six hours with one charge.

Can be fitted with yellow or ruby cap's for photographic work.

A cycle holder attachment can be supplied which, when complete furnishes a very convenient cycle lamp.

Extra

for Postage

3d.

1d.

1d.

1d. 3d.

3d.

1d.

13d.

3d.

1d.

4d. 6

3d.

6 4d

6 3d.

	Cat.	No	<ol> <li>0889</li> </ol>	
Partly	open	to	show	interior)

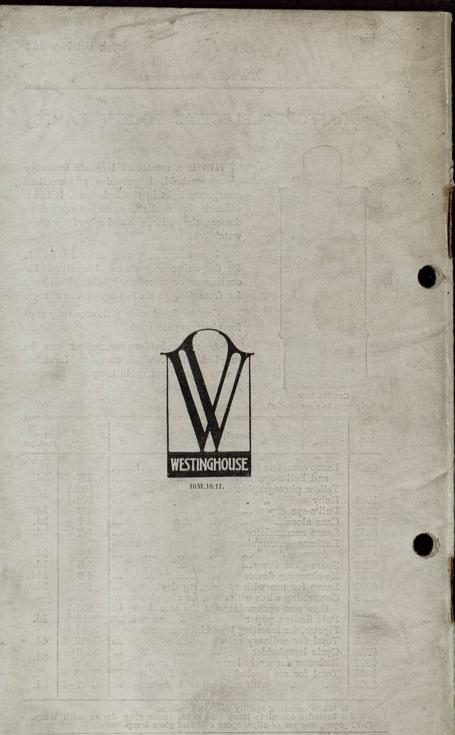
(1

	Cat.	N	<ol> <li>0889</li> </ol>	
Partly	open	to	show	interior)

	Cat. No.	Description.	Price Each.
	0889	Lamp complete (with accumulator, case, lamp, and bull's-eye cap	12/-
	0890	Yellow photographic cap	10d.
	0891	Ruby " "	10d.
	0895	Bull's-eye cap	1/3
	0894	Case alone	4/3
	0893	Spara accumulator	5/7
	0892	Exchange accumulator (in exchange for a run-	S
	200	down cell	4/-
	0896	Spare glow lamp	2/5
	0897	Re-charging device	4/9
	0898	Lamp for use with re-charging device*	2/5
	0899	Connecting wires with clips, for charging more	10d.
		than one accumulator at the same time	61d.
K	0900	Pole finding paper per packet	
and the second sec	0901	Pipette, for inserting liquid into accumulator	£1 13
	0902	Total for ordinary set** Cycle lampholder	±1 10
1	0903	Cycle lampholder Reflector for cycle lamp	2/5
	0904	Reflector for cycle lamp	(1 18
	0905 0906	Reflector for cycle lamp Total for set (including 0903 and 0904) "," with solid silver lamp case	$\begin{array}{ccc} \pounds 1 & 18 \\ \pounds 3 & 7 \end{array}$

\* When ordering specify c.-p. and voltage.
 \*\* Includes complete lamp and caps, recharging device with lamp,
 P.-F. paper, one set of clips, spare cell and glow lamp.

... ... ... ... ... ...



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