

*Ericsson*  
LM

653

**laboratory  
terminal blocks**



LABORATORY  
TERMINAL BLOCKS

TELEFONAKTIEBOLAGET  
LMERICSSON

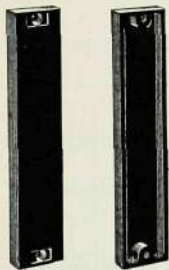
STOCKHOLM, SWEDEN

CABLE ADDRESS: TELEFONBOLAGET  
INTERNATIONAL TELEPHONE: 0126

Right is reserved to make small departures from the illustrations and as regards dimensions and weights.

Further particulars of the material dealt with in the catalogue as also prices will be furnished by the nearest L M Ericsson representative.

## LABORATORY TERMINAL BLOCKS

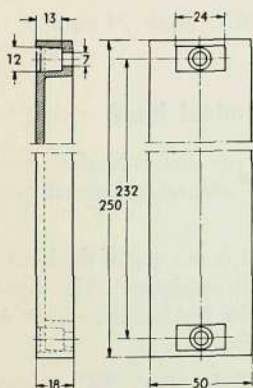


BPL 1011

When fitting out laboratories, testing rooms and the like for factories, schools and higher educational institutions there are usually required suitable connection panels for distributing the electric energy to laboratory and working benches, to instruments etc.

By means of L M Ericsson's laboratory terminal block it is possible to make up connection panels in any desired combination, according to requirements. The laboratory terminal block comprises a terminal block, to be had in different variants and which constitutes the basic element of which the connection panels are made up. In this way it is possible in simple manner to alter or enlarge the panels as required.

The blocks consist of a moulded rectangular base of insulating material on which the connecting devices are fitted. All live metal parts are protected against touch.



BPL 1011

The blocks are intended for mounting closely together with a pitch of 250 mm in height and 50 mm in width.

At each end of the blocks there is a hole for fixing. In front of the hole is a rectangular recess for a label frame with white card label and cellophane protection.

These blocks with terminals have in addition a rectangular recess with labels for each terminal. The necessary labels are included.



BPL 1107

### BPL 1011 Laboratory terminal block

This block consists of an insulating strip, flat at the front. It is not fitted and is recommended for use as fill up block in connection panels where other laboratory terminal blocks may be put in later. It is suitable for fitting special devices not to be found on the other blocks, e.g., signal lamps, wall outlets etc.

*Dimensions:* see dimensions sketch on page 3.  
Weight 0,12 kg.



### BPL 1107 Laboratory terminal block

This block is provided with seven terminals *NEY 9002*.

*Dimensions:*  
height and width see *BPL 1011*, depth about 70 mm.  
Weight 0,32 kg.

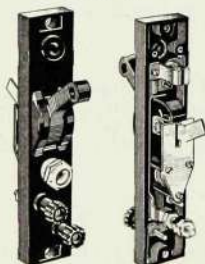
BPL 1207

### BPL 1207 Laboratory terminal block

This block is provided with seven terminals each one having a fuse device with plug head *239621*.

Necessary fuse tubes *NGH 2502*—*NGH 2509* are not included in delivery.

*Dimensions:*  
height and width see *BPL 1011*, depth 70 mm.  
Weight 0,50 kg.



BPL 1302

### BPL 1302 Laboratory terminal block

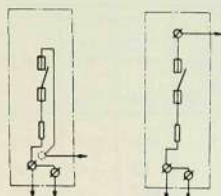
This block comprises knifetype circuit-breaker, fuse device with plug head *239620*, connecting bolt and two terminals.

*The connecting bolt is located at the rear of the block. The knifetype circuit-breaker is single-pole. The highest break capacity is 25 A with 250 V D.C. and 50 A with 500 V A.C. non-reactive load.*

Necessary fuse plugs *NGG 1001*—*NGG 1007* are not included in delivery.



BPL 1303



BPL 1302

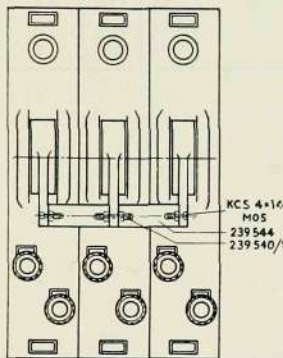
BPL 1303

*Dimensions:*

height and width see *BPL 1011*, depth 130 mm.  
Weight 0,57 kg.

**BPL 1303 Laboratory terminal block**

This block resembles *BPL 1302*, but the connecting bolt is replaced by an extra terminal mounted on the front of the block. All lines therefore are connected at the front.



Example of combination

*Dimensions:*

height and width see *BPL 1011*, depth 130 mm.  
Weight 0,52 kg.

The laboratory terminal blocks *BPL 1302* and *BPL 1303* are made only with single-pole knifetype circuit breaker. To have two, three or four-pole circuit breakers two, three or four blocks are mounted alongside each other and the operating handles are joined up by one or more cylindrical connecting links 239544 of insulating material, fixed into holes at the end of the operating handles by means of screws *KCS 4x14 M05* and screw bolts 239540/1.

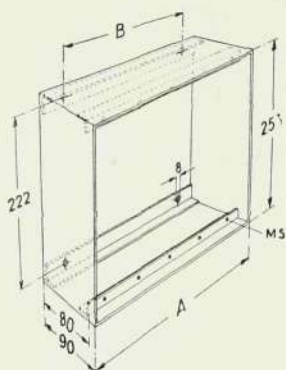
**409635/1—409635/10 Frames for laboratory terminal blocks**

These frames are employed when laboratory terminal blocks are to be built together into connection panels.

It is made of aluminium-painted sheet-iron, 1,25 mm thick. At the rear of the frame there are iron brackets for attaching to walls and at the front iron brackets for fitting the laboratory terminal blocks.

Suitable fixing screw for the laboratory terminal blocks is *KCS 5x10 J03*, see page 8.

If larger connection panels are required, several frames may be placed alongside each other or one above the other. When standing alone, e.g., on a table, the rear of the frame should be provided with a protecting plate.



409635/1—409635/10

|           | for max. number laboratory terminal blocks | number of holes for fixing the frame | A   | B   | weight |
|-----------|--|--------------------------------------|-----|-----|--------|
|           |  |                                      | mm  | mm  | kg     |
| 409635/1  | 1  |                                      | 53  | —   | 0,6    |
| 409635/2  | 2  | 2                                    | 103 | —   | 0,8    |
| 409635/3  | 3  |                                      | 153 | —   | 1,0    |
| 409635/4  | 4  |                                      | 203 | 100 | 1,2    |
| 409635/5  | 5  |                                      | 253 | 150 | 1,4    |
| 409635/6  | 6  | 4                                    | 303 | 175 | 1,5    |
| 409635/8  | 8  |                                      | 403 | 250 | 1,9    |
| 409635/10 | 10   |                                      | 503 | 300 | 2,2    |

## ACCESSORIES

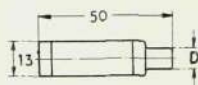
### NGG 1001—NGG 1007 Fuse plugs

These fuse plugs are of the ordinary D-type fitting fuse devices with Edison thread *E 16*.

Rated voltage is 500 V.

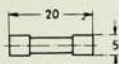
*Dimensions:* see dimensions sketch.

Weight per 100: 1,5 kg.



NGG 1001—NGG 1007

|          | rated current | D  |
|----------|---------------|----|
|          | A             | mm |
| NGG 1001 | 2             | 6  |
| NGG 1002 | 4             | 6  |
| NGG 1003 | 6             | 6  |
| NGG 1004 | 10            | 8  |
| NGG 1005 | 15            | 10 |
| NGG 1006 | 20            | 12 |
| NGG 1007 | 25            | 14 |



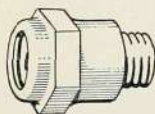
NGH 2502—NGH 2509

### NGH 2502—NGH 2509 Fuse tubes with straight fuse-wire

These fuse tubes are current protection elements consisting of a glass tube with two end-caps fixed to the tube, between which a fuse-wire is soldered. The fuse tube rated current equals the limit current i.e. the maximum D.C. current which the fuse can carry for an indefinite time without breaking.

*Dimensions:* see dimensions sketch.

|          | rated current | average resistance | weight per 100 |
|----------|---------------|--------------------|----------------|
|          | A             | ohm                | kg             |
| NGH 2502 | 0,5           | 3,85               | 0,09           |
| NGH 2503 | 1             | 0,92               | 0,09           |
| NGH 2504 | 2             | 0,10               | 0,09           |
| NGH 2505 | 3             | 0,04               | 0,09           |
| NGH 2506 | 4             | 0,04               | 0,09           |
| NGH 2507 | 6             | 0,02               | 0,09           |
| NGH 2509 | 10            | 0,012              | 0,09           |



239620

### 239620 Plug head

This plug head is of porcelain and is used for laboratory terminal blocks *BPL 1302* and *BPL 1303*.

*Dimensions:* length 36 mm, greatest diameter 29 mm, thread *E 16*.

Weight 0,02 kg.

### 239621 Plug head

This plug head fits laboratory terminal block *BPL 1207*. The plug head, which is in insulating material, has a slot for screwdriver. The plug head is provided with spring device to hold the fuse tube.

*Dimensions:*

length 19 mm, diameter 14 mm.

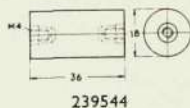
Weight per 100: 0,5 kg.



239621



239544



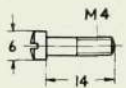
239544

### 239544 Connecting link

This connecting link is used for the operating handles on laboratory terminal blocks *BPL 1302*—*BPL 1303* when these are to be made multi-pole. The connecting links are made of insulating material with threaded piece cast in.

*Dimensions:* see dimensions sketch.

Weight 0,015 kg.



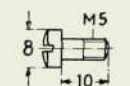
KCS 4×14 M05

### KCS 4×14 M05 Screw

This screw is employed for fixing connecting link 239544 on operating handles for laboratory terminal blocks. The screw is of brass, surface finished.

*Dimensions:* see dimensions sketch, thread *M4*.

Weight per 100: 0,15 kg.



KCS 5×10 J03

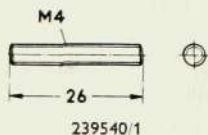
### KCS 5×10 J03 Screw

This screw is used for fixing the laboratory terminal blocks in frame 409635/1—409635/10.

The screw is of steel, surface finished.

*Dimensions:* see dimensions sketch, thread *M5*.

Weight per 100: 0,3 kg.



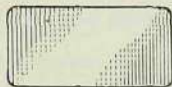
239540/1

### 239540/1 Screw bolt

This bolt is designed for fixing two connecting links 239544 on operating handles for laboratory terminal blocks. The bolt is of brass, surface finished.

*Dimensions:* see dimensions sketch, thread *M4*.

Weight 0,002 kg.



400474/1--2, 400483/1--2

### 400474/1—400483/2 Labels

For the smaller recess in the blocks at each terminal there are used:

label protector 400474/1,  
label frame 400475,  
label 400483/1.

For the larger recess at each end of the block there are used:

label protector 400474/2,  
label frame 400476,  
label 400483/2.

Label protector 400474/1 and 400474/2 consist of 0,3 mm cellon.

#### *Dimensions:*

height 6,5 mm, width 18,0 mm for 400474/1;  
height 11,0 mm, width 22,8 mm, for 400474/2.  
Weight per 100: 0,004 and 0,008 kg respectively.

The label frames 400475 and 400476 consist of stamped frames of sheet iron, surface finished. They have a certain springiness making them fit specially firmly in the block recess.

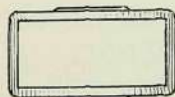
#### *Dimensions:*

height 7,8 mm, width 18,8 mm, depth 1,8 mm for 400475;  
height 12,4 mm, width 23,8 mm, depth 1,8 mm for 400476.  
Weight per 100: 0,028 and 0,039 kg respectively.

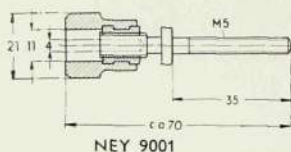
Labels 400483/1 and 400483/2 consist of 0,25 mm white card.

#### *Dimensions:*

height 6,5 mm, width 18,0 mm for 400483/1;  
height 11,0 mm, width 22,8 mm for 400483/2.  
Weight per 100: 0,003 and 0,006 kg respectively.



400475, 400476



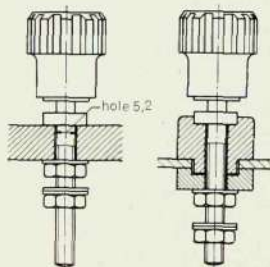
NEY 9001



NEY 9002



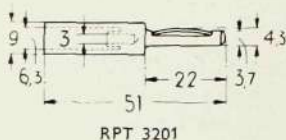
NEY 9003



NEY 9002

mounted

NEY 9003



RPT 3201

## NEY 9001—NEY 9003 Terminals

These terminals consist of a screw in surface finished brass with friction flange and a nut of insulating material with brass threaded piece cast in. The insulation casing of the nut is so dimensioned that the terminal screw is protected against touching.

Cable lugs can be connected under the nuts of these terminals, while a banana plug can be inserted in the nut.

NEY 9001 is without washers and nuts.

*Dimensions:* see dimensions sketch.

Weight 0,023 kg.

NEY 9002 has three washers and two nuts of surface finished brass.

*Dimensions:* see dimensions sketch for NEY 9001.

Weight 0,030 kg.

NEY 9003 has three washers and two nuts of surface finished brass, in addition it is provided with a bushing and washer of insulating material, which allows of the terminal being attached to a non-insulated base, such as sheet metal.

*Dimensions:* see dimensions sketch for NEY 9001.

Weight 0,035 kg.

## RPT 3201—RPT 3205 Banana plugs

These banana plugs have a strong plug of surface finished brass in which is fixed a flat steel spring. This ensures very high contact pressure and particularly low contact resistance.

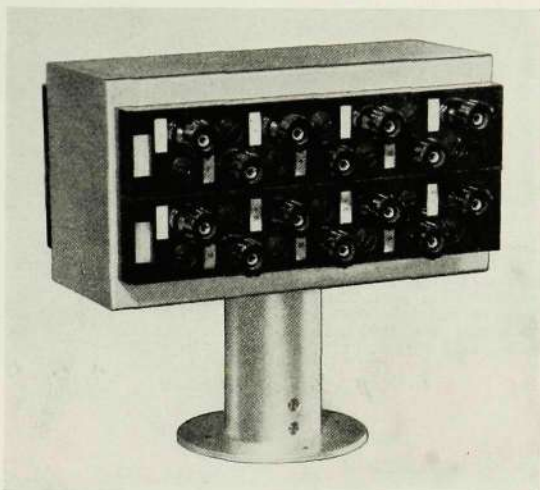
The case, which is of very durable insulating material, is screwed firm onto the plug. Connection of the wire to the plug must be done by soldering.

*Colours:* RPT 3201 black, RPT 3202 red, RPT 3203 white, RPT 3204 yellow, RPT 3205 green.

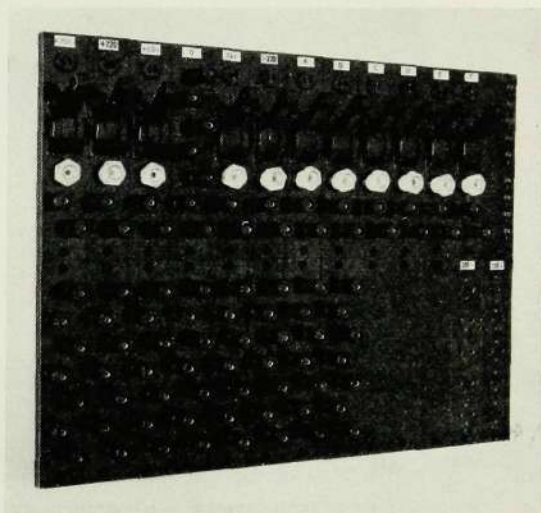
*Dimensions:* see dimensions sketch.

Weight 0,004 kg.

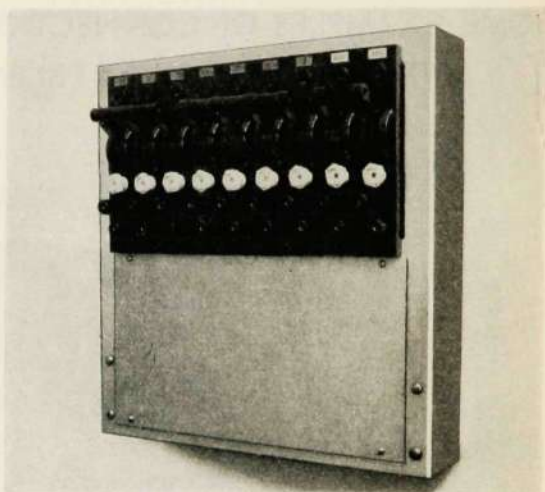
## SOME EXAMPLES OF CONNECTION PANELS FITTED WITH LABORATORY TERMINAL BLOCKS



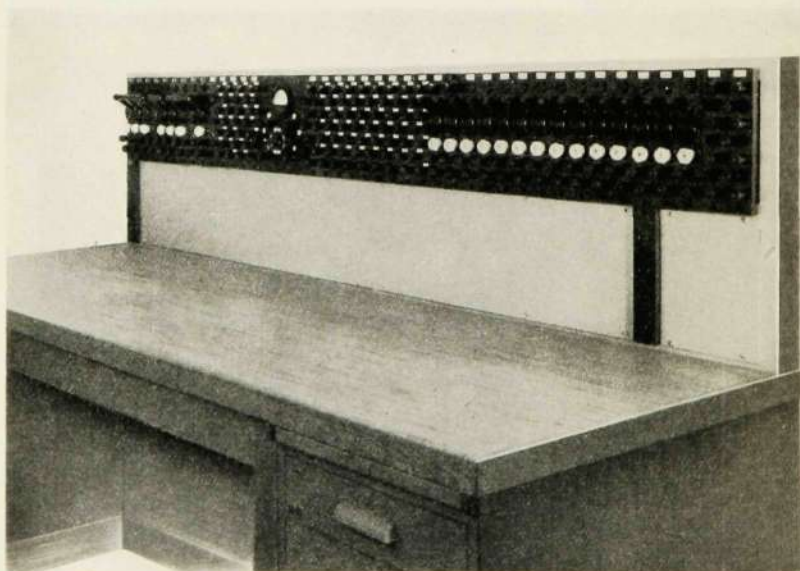
Small connection panel with terminals and fuses, designed for mounting on a workshop bench. The panel is fitted with two laboratory terminal blocks BPL 1207 on each side.



Connection panel with circuit breaker, terminal and fill-up blocks, designed for wall mounting.



Connection panel, provided with one, three and four-pole circuit breakers with fuses and terminals mounted on a wall. The panel comprises nine laboratory terminal blocks BPL 1302 with connecting links 239544.



Connection panel, mounted in a floor-frame along laboratory bench.

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