

# ELECTRIC LOCKING ON DOORS

Applies to all visitor/resident access controlled doors

12VDC Fail Safe locking and associated cabling is required on all access controlled doors. It is NOT included in our quotations unless expressly stated otherwise. Locking to be supplied by the door company for the following reasons:

SBD New Homes 2014 onwards states “the locking system must form part of the certificated doorset range”.

“Locks that are supplied with the door which have not been tested as part of the particular doorset range, will fall outside the scope of the manufacturer’s certification, and will therefore fail to meet the SBD physical security standards” – which would clearly apply to locks supplied by NACD or any other 3rd party.

NACD advises as follows:

1. The electric locking must always be supplied and installed by the door manufacturer/installer.\*
2. The supply/installation of electric locking by any party, other than the door manufacturer at time of manufacture, will result in an inferior locking solution
3. For any locking system to operate correctly, the door(s) must close true each time (door manufacturer/installer must consider all site environmental variables).
4. Electro-magnet locking systems, when not pre-installed in the door rebate, must only be installed on the secure side of the door.
5. Doors must be fit for purpose and fitted with the appropriate door closer, and door stop(s) top and bottom as appropriate.
6. The supply/installation of electric locking after the doors have been supplied to site will be significantly more expensive than at the time of manufacture.

7. Doors on fire escape routes must be clearly marked accordingly.
8. Emergency exit devices must be installed on all escape doors to guarantee emergency exit at all times.
9. Electric locking circuits must only use lock circuit cabling 4-core, 1mm<sup>2</sup> /core per lock, or Fire Protected equivalent.
10. Do NOT use Shear (pin type) magnets and shoot bolt type locking systems because they are very sensitive to the door closing true each time. The margin of error (tolerance) is very small which makes this type of locking very unreliable.
11. **All locking to be 12VDC FAIL SAFE only.**
12. Electro-mechanical fail secure locking & electric fail secure releases are (a) NOT to be used with battery back-up as not designed to be continuously powered “unlocked” (b) NOT suitable for connection to Fire/AOV system for guarantee “unlock” in the event of emergency.
13. Electro-mechanical fail secure locking does NOT unlock immediately and often causes annoyance to residents.
14. **Never use Fail SECURE locking** – especially on doors that have access control on the ESCAPE FROM side.

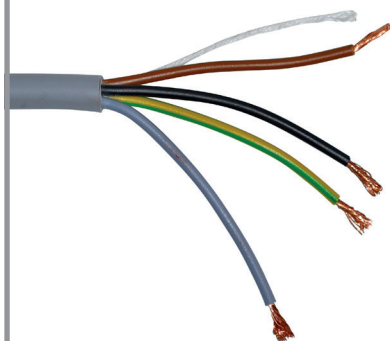
## IMPORTANT

Any third party attempting to cut a locking device into a metal door/frame will invalidate all warranties. All such works must always be referred back to the door company.

\*Avoid glass framed doors as especially difficult to electrically lock.

## LOCKING CIRCUIT CABLE 4 x 1 YY/LSZH (3184B LSZH)

Maximum distance from locking to power supply location:  
50 metres for 1 amp lock  
30 metres for 2 amp lock



CABLE REFERENCE:  
4 x 1 YY/LSZH  
**PER LOCK**

Fail safe locking relies on the locking receiving the correct voltage and current. Fail secure electro-mechanical locking always requires a 3rd core control cable. Only industry reference 4 x 1 YY/LSZH cabling (or Fire Protected equivalent, if applicable) is to be used. Alarm, data or communications cabling; for example; CAT5E, CW1308 is unacceptable.

<b>Conductors:</b>	Flexible copper, class 5.
<b>Core identification:</b>	4 core: brown, grey, black, green/yellow
<b>Insulation:</b>	LSZH
<b>Sheath/Jacket:</b>	LSZH
<b>Colour:</b>	Grey
<b>Voltage:</b>	300/500V
<b>Operating temperature:</b>	-5°C / + 70°C
<b>Minimum bending radius:</b>	6 x overall diameter
<b>Standards:</b>	BS EN 50525-3-11, EN 61034-2, EN 60332-1-2.

Core size sq.mm	No of cores	Radial thickness of insulation mm	Nominal overall diameter mm	Weight kg/km
1	4	0.6	7.9	99

T: 01322-441165 Product ref: 3184B-Grey Part number: 45574 www.batt.co.uk