



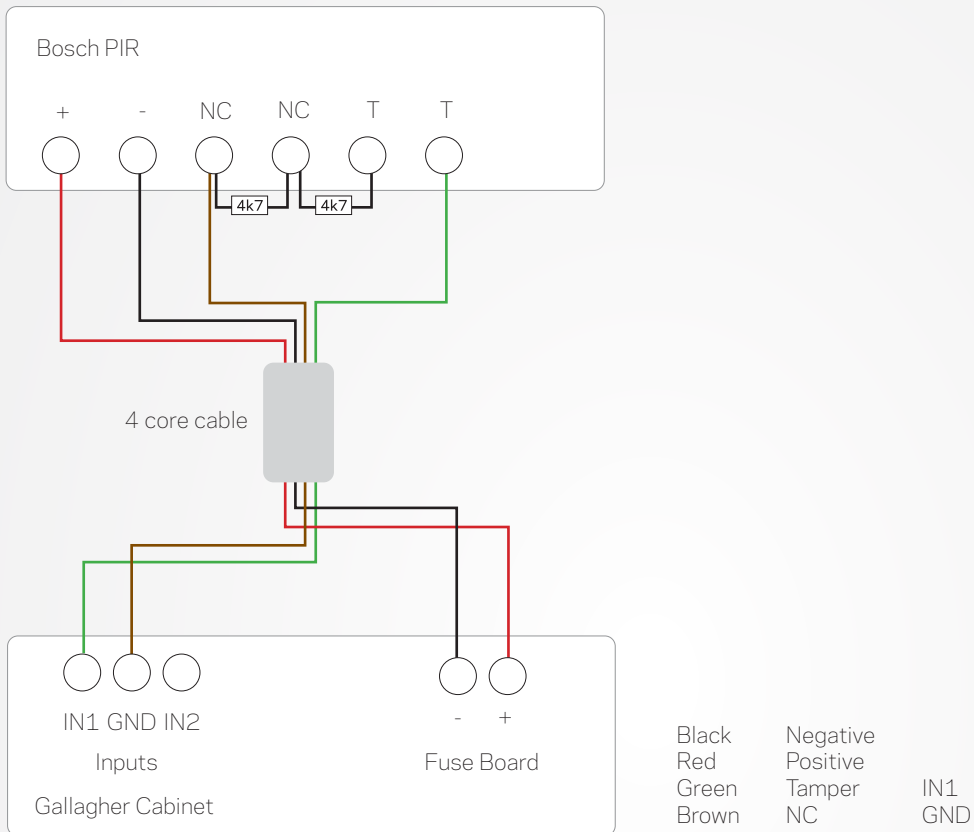
Gallagher

Third Party Wiring Guide

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Bosch PIR



Input voltages

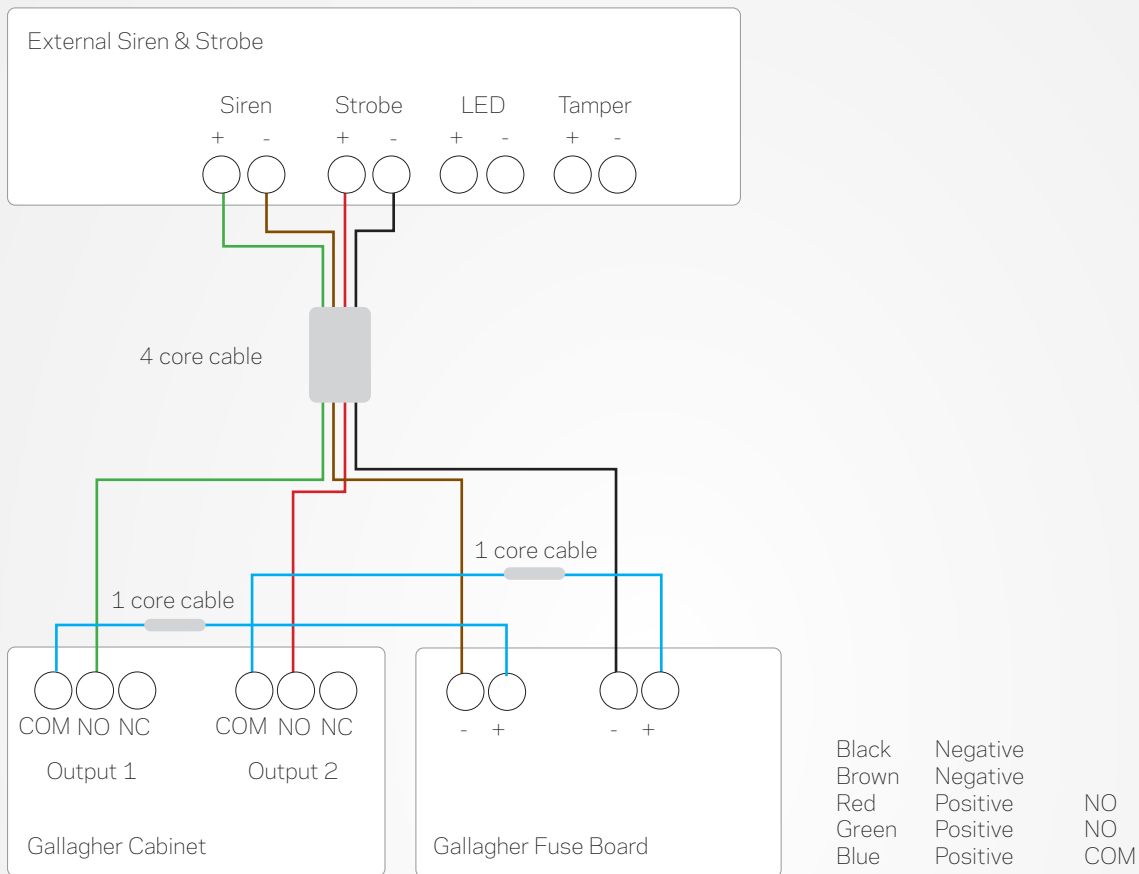
Tamper conditions			
Input	Voltage between IN & GND	Resistors in circuit	Input state
NA	5 V	No complete circuit	Open circuit
NA	0 V	0 (No resistance)	Short circuit

Input conditions			
Input	Voltage between IN & GND	Resistors in circuit	Input state
NA	2.5 V	1 (4k7)	Closed circuit
NA	3.3 V	2 (4k7 + 4k7 = 9k4)	Open circuit

Important: By default the Gallagher system requires a 4k7 resistor for all input devices. You can change the resistance value for an I/O board within the Configuration App. All resistors should be installed at the end device.

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External Siren & Strobe



Input voltages

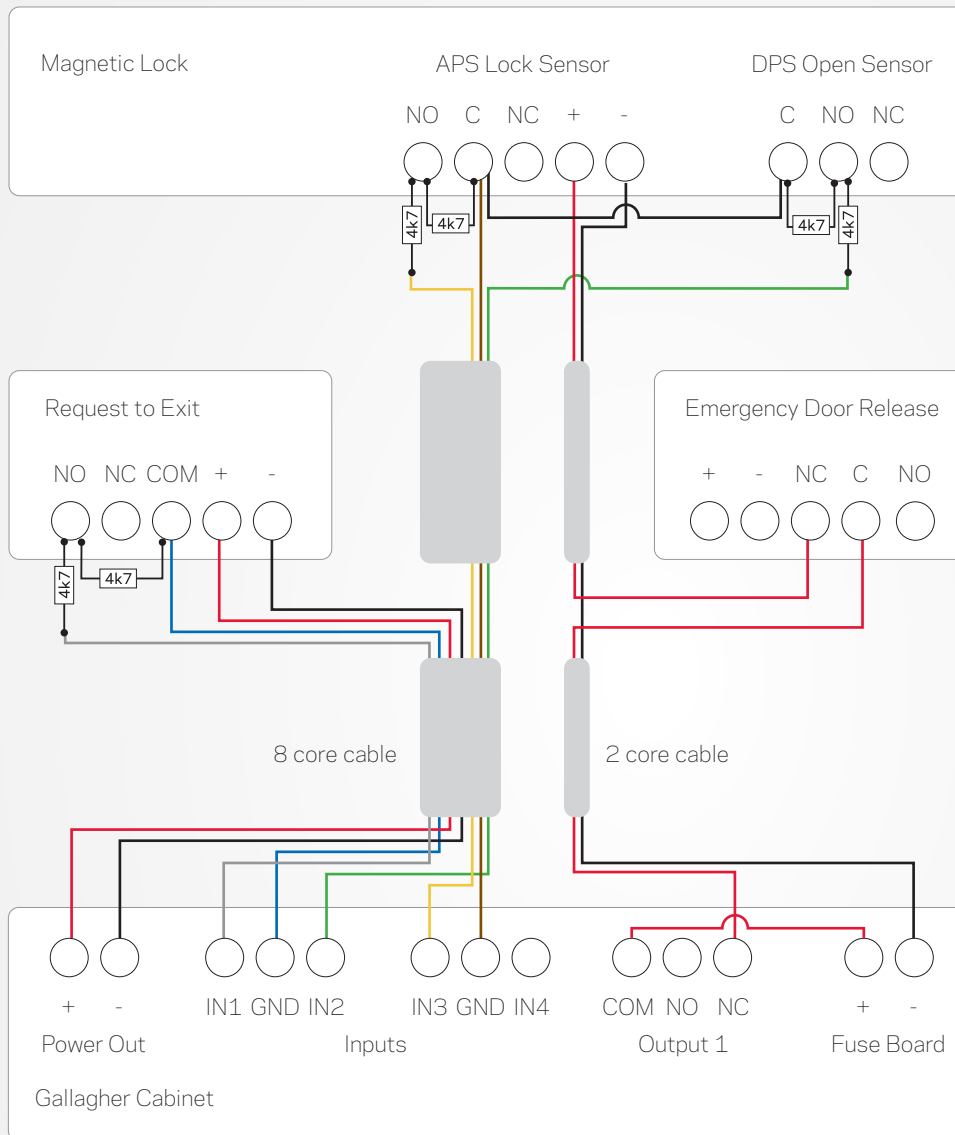
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Assa Abloy Trimec Mag Lock Wiring



Black	Negative	
Red	Positive	
Yellow	APS / Lock Sensor (NO)	IN3
Green	DPS / Open Sensor (NO)	IN2
White	Request to Exit (NO)	IN1
Blue	Request to Exit Common	GND
Brown	APS and DPS Common	GND

Input voltages

APS / Lock Sensor			
Door physical position	Voltage between IN3 & GND	Resistors in circuit	Input state
Door locked	2.5 V	1 (4k7)	Closed circuit
Door unlocked	3.3 V	2 (4k7+4k7=9k4)	Open circuit

DPS / Open Sensor			
Door physical position	Voltage between IN2 & GND	Resistors in circuit	Input state
Door closed	2.5 V	1 (4k7)	Closed circuit
Door open	3.3 V	2 (4k7 + 4k7 = 9k4)	Open circuit

Request to Exit			
Button physical position	Voltage between IN1 & GND	Resistors in circuit	Input state
Button pressed	2.5 V	1 (4k7)	Closed circuit
Button not pressed	3.3 V	2 (4k7 + 4k7 = 9k4)	Open circuit

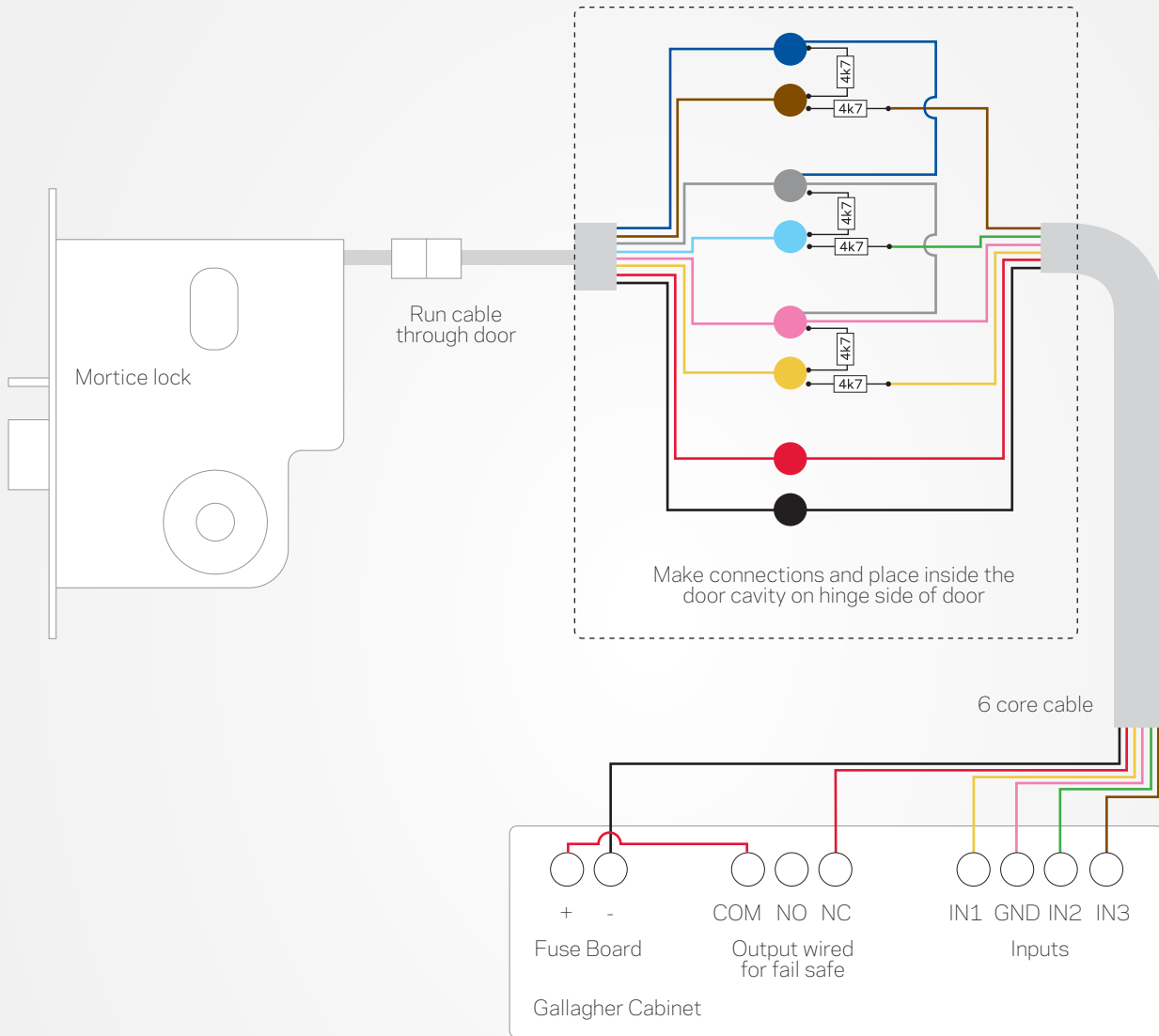
Tamper conditions			
Input	Voltage between IN & GND	Resistors in circuit	Input state
NA	5 V	No complete circuit	Open circuit
NA	0 V	0 (No resistance)	Short circuit

The wiring diagram details the minimum specifications for wiring an Assa Abloy Trimec Magnetic Lock to the Gallagher system. Other recommendations include running a separate cable for the Request to Exit, and wiring the Emergency Door Release for monitoring (including the buzzer on the Emergency Door Release with separate power).

Use only 4k7 ohm resistors.

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Assa Abloy 3570 Series Mortice Lock Wiring (6 core)



Black	Negative	
Red	Positive	
Yellow	Door closed Reed Switch (NC) / Open Sensor	IN1
Pink	Reed Switch Common / Open Sensor	GND
Light Blue	Deadlatched and Locked (NC) / Lock Sensor	IN2
Grey	Deadlatched and Locked Common / Lock Sensor	GND
Brown	Hub Monitor (NC) / Request to Exit	IN3
Blue	Hub Monitor Common / Request to Exit	GND

Input voltages

Reed Switch / Open Sensor			
Door physical position	Voltage between IN1 & GND	Resistors in circuit	Input state
Door closed	2.5 V	1 (4k7)	Closed circuit
Door open	3.3 V	2 (4k7+4k7=9k4)	Open circuit

Deadlatched and Locked / Lock Sensor			
Door physical position	Voltage between IN2 & GND	Resistors in circuit	Input state
Door locked	2.5 V	1 (4k7)	Closed circuit
Door unlocked	3.3 V	2 (4k7 + 4k7 = 9k4)	Open circuit

Hub Monitor / Request to Exit			
Handle position	Voltage between IN3 & GND	Resistors in circuit	Input state
Handle in rest state	2.5 V	1 (4k7)	Closed circuit
Handle down	3.3 V	2 (4k7 + 4k7 = 9k4)	Open circuit

Tamper conditions			
Input	Voltage between IN & GND	Resistors in circuit	Input state
NA	5 V	No complete circuit	Open circuit
NA	0 V	0 (No resistance)	Short circuit

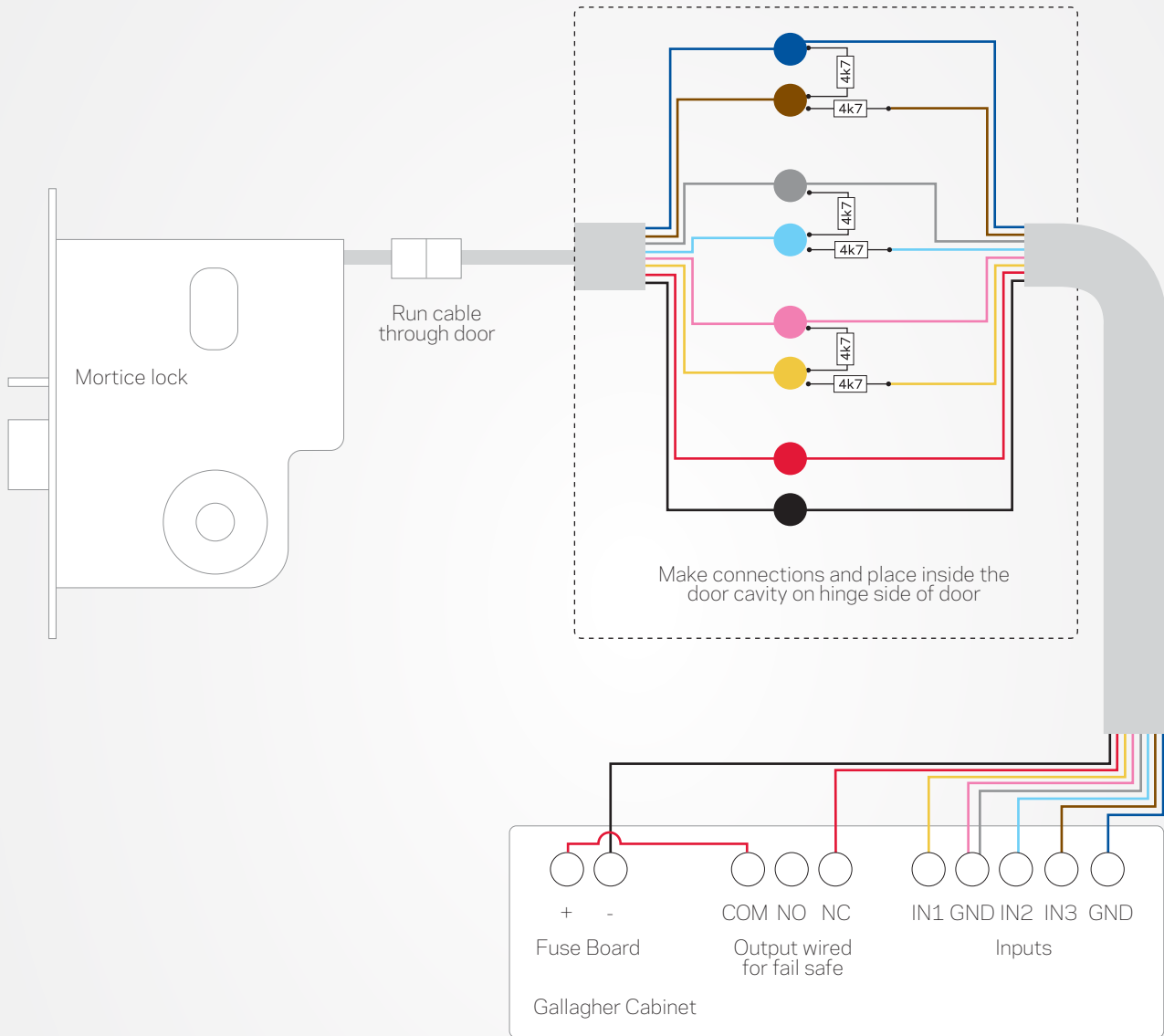
The wiring diagram details the minimum specifications for wiring an Assa Abloy 3570 Series Mortice Lock to the Gallagher system. The diagram shows the lock wired for "fail safe". To wire the lock for "fail secure" change the output termination from NC to NO.

If required, wire the key override monitor to an input and name the input "Key override at [Door Name]". When a key is used, the input name will be shown in the alarm.

Use only 4k7 ohm resistors.

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Assa Abloy 3570 Series Mortice Lock Wiring (8 core)



Black	Negative	
Red	Positive	
Yellow	Door closed Reed Switch (NC) / Open Sensor	IN1
Pink	Reed Switch Common / Open Sensor	GND
Light Blue	Deadlatched and Locked (NC) / Lock Sensor	IN2
Grey	Deadlatched and Locked Common / Lock Sensor	GND
Brown	Hub Monitor (NC) / Request to Exit	IN3
Blue	Hub Monitor Common / Request to Exit	GND

Input voltages

Reed Switch / Open Sensor			
Door physical position	Voltage between IN1 & GND	Resistors in circuit	Input state
Door closed	2.5 V	1 (4k7)	Closed circuit
Door open	3.3 V	2 (4k7+4k7=9k4)	Open circuit

Deadlatched and Locked / Lock Sensor			
Door physical position	Voltage between IN2 & GND	Resistors in circuit	Input state
Door locked	2.5 V	1 (4k7)	Closed circuit
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Hub Monitor / Request to Exit			
Handle position	Voltage between IN3 & GND	Resistors in circuit	Input state
Handle in rest state	2.5 V	1 (4k7)	Closed circuit
Handle down	3.3 V	2 (4k7 + 4k7 = 9k4)	Open circuit

Tamper conditions			
Input	Voltage between IN & GND	Resistors in circuit	Input state
NA	5 V	No complete circuit	Open circuit
NA	0 V	0 (No resistance)	Short circuit

The wiring diagram details the minimum specifications for wiring an Assa Abloy 3570 Series Mortice Lock to the Gallagher system. The diagram shows the lock wired for "fail safe". To wire the lock for "fail secure" change the output termination from NC to NO.

If required, wire the key override monitor to an input and name the input "Key override at [Door Name]". When a key is used, the input name will be shown in the alarm.

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