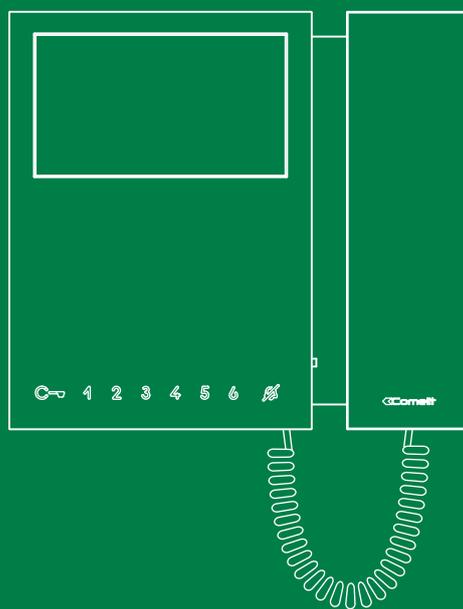
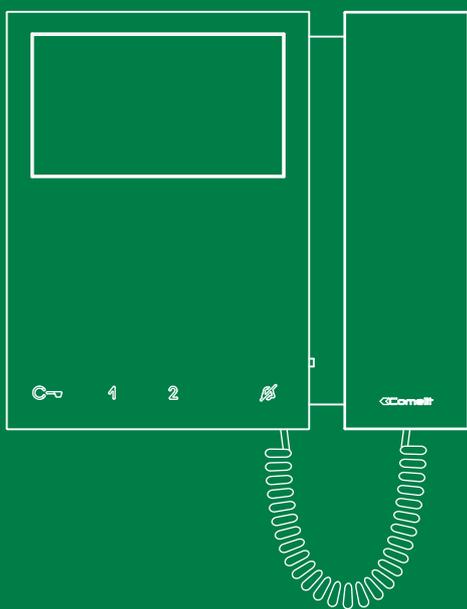


EN

TECHNICAL  
MANUAL



Mini

6701W

6701W/BM

6701W/8

 **Comelit**<sup>®</sup>  
Passion. Technology. Design.

# Warning

## Intended use

This Comelit product was designed for use in the creation of audio and video communication systems in residential, commercial or industrial settings and in public buildings or buildings used by the public.

## Installation

All activities connected to the installation of Comelit products must be carried out by qualified technical personnel, with careful observation of the indications provided in the Manuals / Instruction sheets supplied with those products.

## Wires

Cut off the power supply before carrying out any maintenance procedures.

Use wires with a cross-section suited to the distances involved, observing the instructions provided in the system manual.

We advise against running the system wires through the same duct as the power cables (230V or higher).

## Safe usage

To ensure Comelit products are used safely:

- carefully observe the indications provided in the Manuals / Instruction sheets
- make sure the system created using Comelit products has not been tampered with / damaged.

## Maintenance

Comelit products do not require maintenance aside from routine cleaning, which should be carried out in accordance with the indications provided in the Manuals / Instruction sheets.

Any repair work must be carried out

- for the products themselves, exclusively by **Comelit Group S.p.A.**,
- for systems, by qualified technical personnel.

## Disclaimer

**Comelit Group S.p.A.** does not assume any responsibility for

- any usage other than the intended use
- non-observance of the indications and warnings contained in this Manual / Instruction sheet.

**Comelit Group S.p.A.** nonetheless reserves the right to change the information provided in this Manual / Instruction sheet at any time and without prior notice.

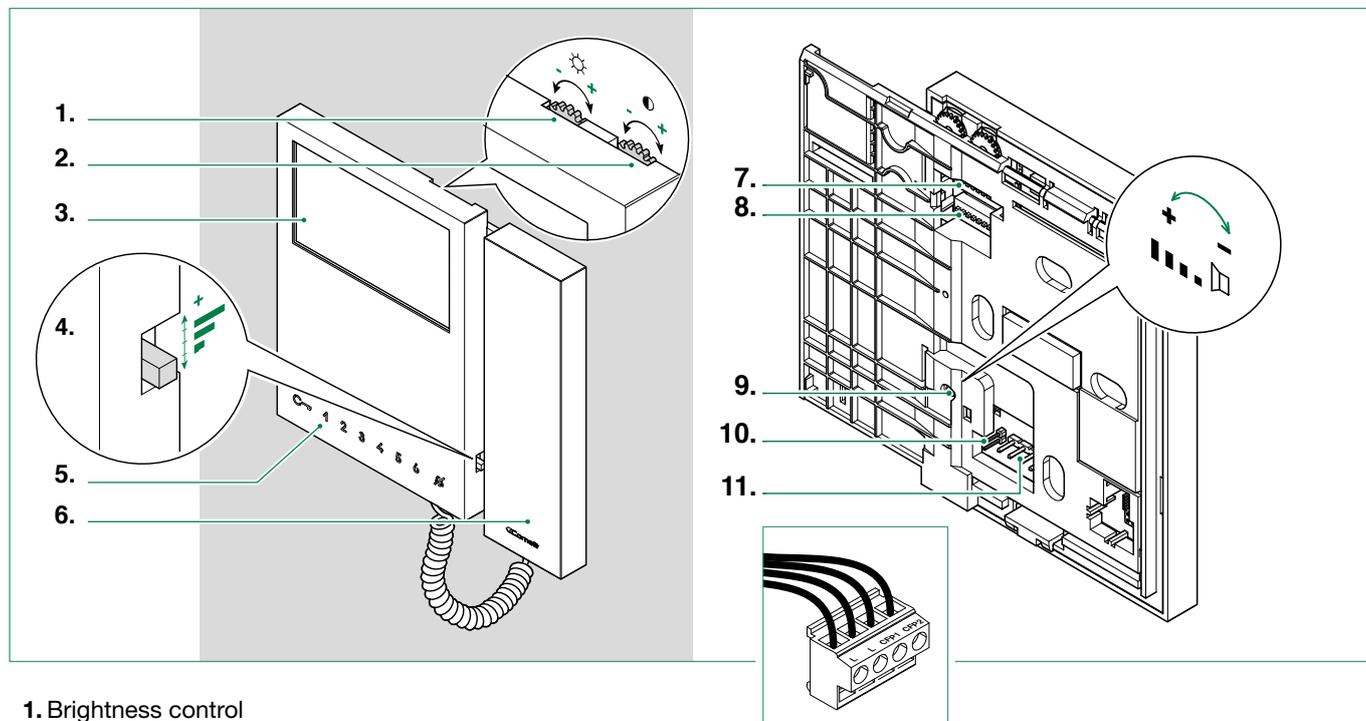
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# Description of the monitor

The monitor can be used in Simplebus2 audio/video systems.

- Art. 6701W is a colour monitor equipped as standard with 4 buttons.
- Art. 6701W/BM is a colour monitor equipped as standard with 4 buttons and magnetic induction (Hearing loop) system. Not supplied with backplate 6710.
- Art. 6701W/8 is a colour monitor equipped as standard with 8 buttons.



**1. Brightness control**

- ▶ To increase the value, turn clockwise

**2. Colour intensity adjustment**

- ▶ To increase the value, turn clockwise

**3. 4.3" colour LCD screen**

**4. Call volume adjustment (High / Medium / Low)**

**5. Buttons**

**6. Handset**

- ▶ Lift the handset to start communication

**⚠ Do not press and hold the audio hook while the handset is lifted.**

**7. S1 Microswitches for programming the user code, see "Addressing table"**

**8. S2 Microswitches for button and function programming (marked with a red corner)**

**DIP 1-2-3-4** for button function programming

**DIP 5-6** access to programming

**DIP 7** for management of power supply voltage, see paragraph "Power supply management"

**DIP 8** for main and secondary monitor setting, see paragraph "Main and secondary monitors"

**9. Loudspeaker volume adjustment (for setting intercom audio only)**

**10. CV5 Jumper for video closure.**

*In systems with more than one monitor connected in cascade, only the monitor furthest away must have CV5 closed.*

**11. Pin for securing terminal block**

**Terminal block for system connection:**

**LL** Bus line connection terminals

**CFP1 CFP2** Floor door call input

## Description of buttons

- ▶ Press the desired button once to activate the associated function.



Wait for approximately 1 sec. before pressing the same button again. Pressing the same button several times in quick succession will cancel the command.



### **LOCK-RELEASE**

Use this key to open the corresponding door lock.

1

### **ACTUATOR default** (*programmable\**)

Allows activation of the associated relay.

2

### **SELF ACTIVATION default** (*programmable\**)

Allows activation of the external video unit, and therefore viewing of the external image.



### **SILENT MODE (Privacy)**

The ringtone will be silenced on receipt of a call from the external unit and from the switchboard.

3 4 5 6

### **PROGRAMMABLE BUTTONS**

*Applies to monitor 6701W/8*

(\*) Buttons may be programmed as:

- **DOOR OPENING UPON CALL (Doctor)**  
Allows automatic operation of the associated lock-release on receipt of a call from an external unit.
  - ▶ *To activate/deactivate Door opening upon call, press and hold the button programmed for this function.*
- **INTERCOM**  
Allows a call from one internal unit to one or more internal units.
- **CALL TO A MAIN OR SECONDARY SWITCHBOARD**
- **PRIORITY CALL TO SWITCHBOARD ("PAN")**
- **CALL TO CARETAKER DOOR-ENTRY PHONE**

## Indicator LED description



**Flashing LED:** incoming call

**1 flash after pressing button:** confirms door opening

**slow flashing:** door open



**FLASHING LED:** device in programming mode

**4 flashes:** system engaged

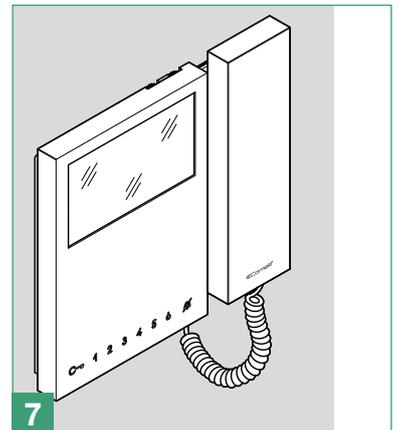
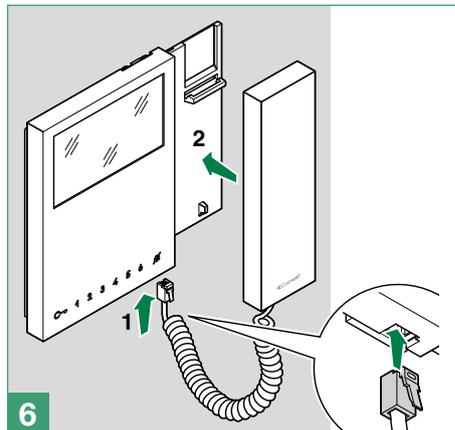
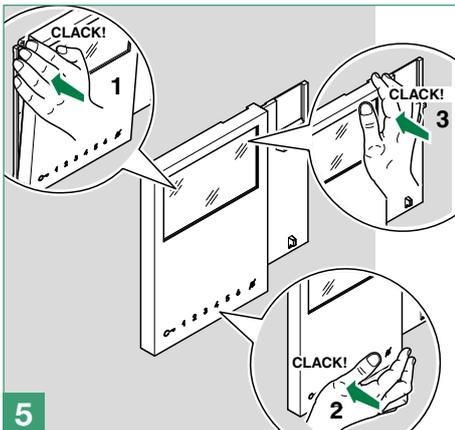
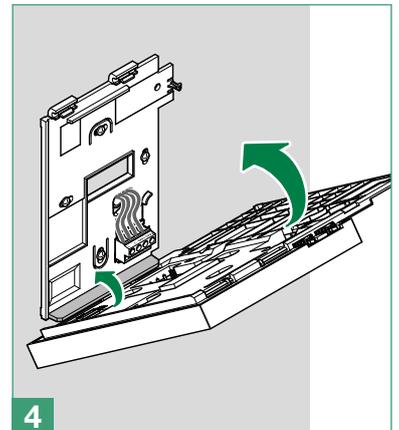
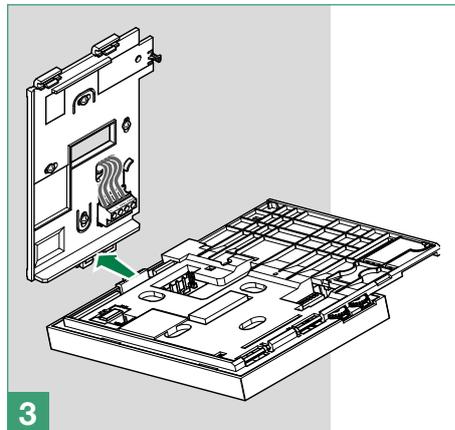
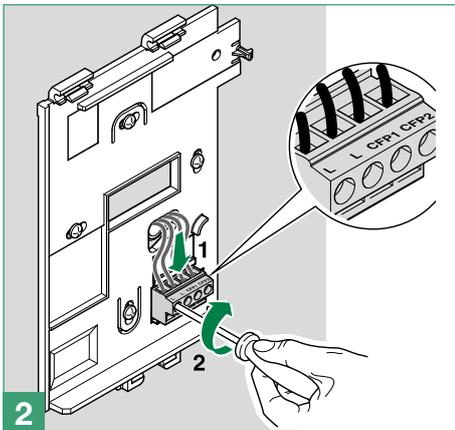
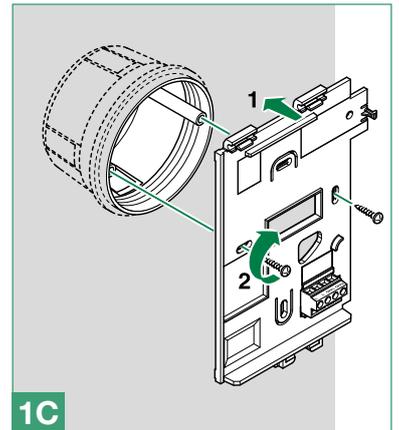
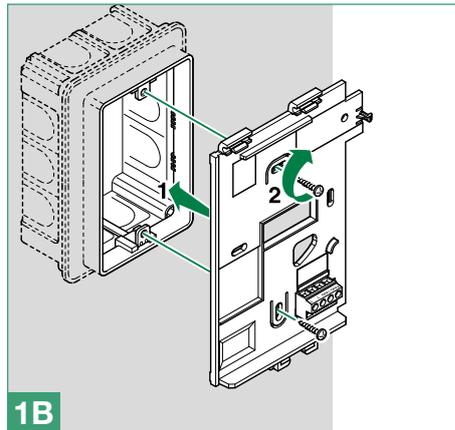
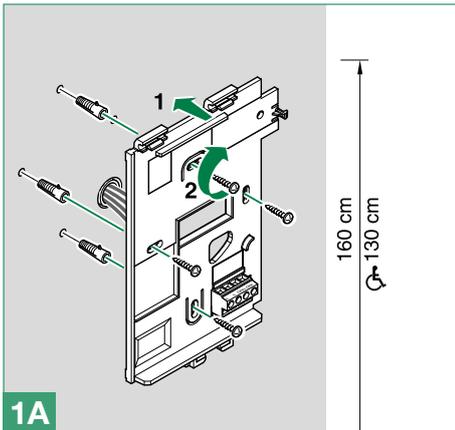
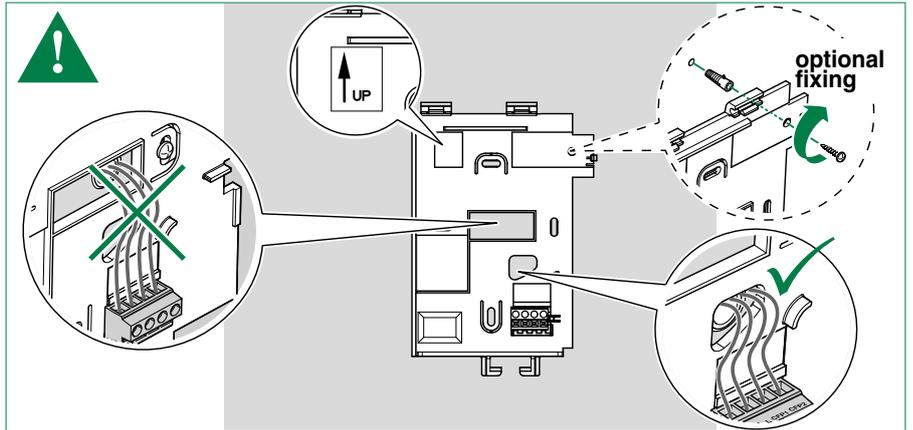
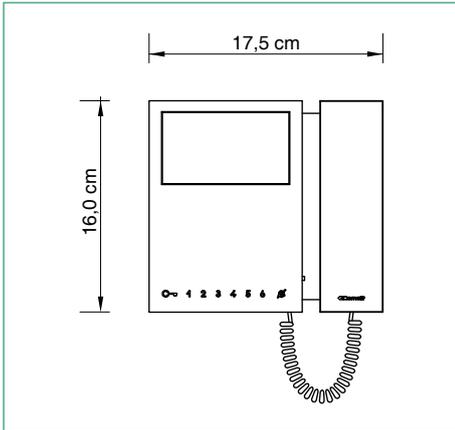
**Steady LED:** Silent mode (Privacy) activated

**3 flashes every 5 sec.:** *Door opening upon call* function (Doctor) active

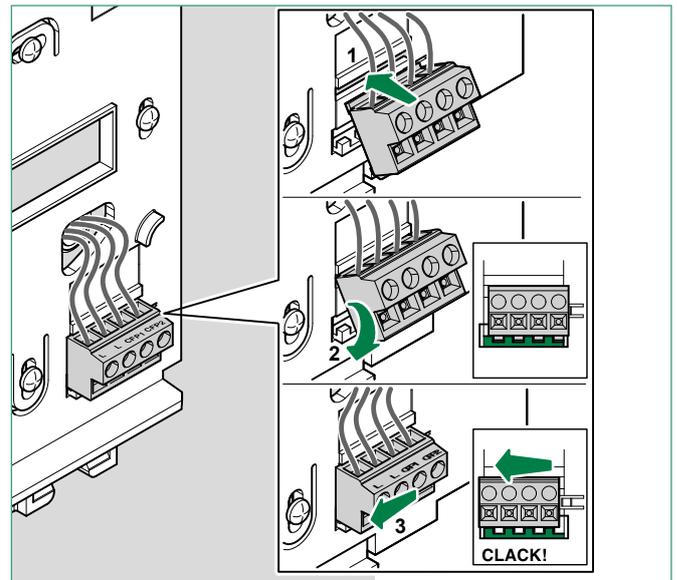
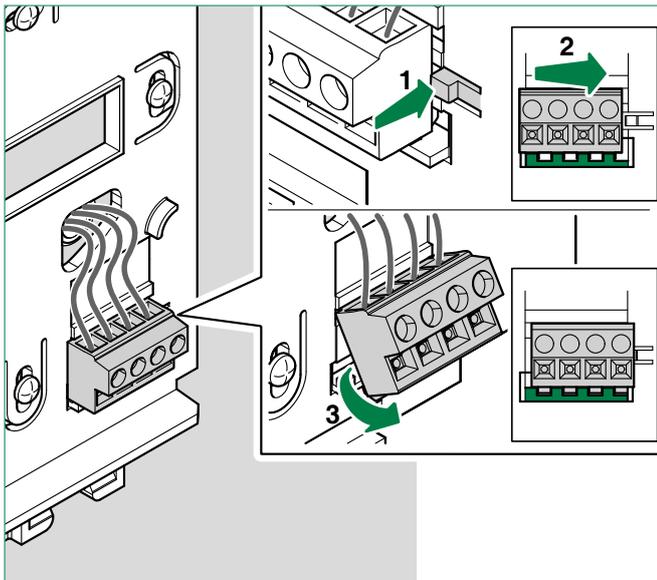
# Technical characteristics

	6701W	6701W/BM	6701W/8
Product height (mm)	160	160	160
Product width (mm)	175	175	175
Product depth (mm)	22	22	22
Product weight (g)	600	600	600
Product color	White RAL9003	White RAL9003	White RAL9003
Material	ABS	ABS	ABS
Wall mounting	Yes	Yes	Yes
Desk base-mounted	Yes	Yes	Yes
Audio induction loop system	No	Yes	No
<b>LCD DISPLAY FEATURES</b>			
Size (inches)	4.3" 16/9	4.3" 16/9	4.3" 16/9
Resolution (pixel)	480x272	480x272	480x272
<b>FUNCTIONS</b>			
Actuator control	Yes ( <i>Default key 1</i> )	Yes ( <i>Default key 1</i> )	Yes ( <i>Default key 1</i> )
Self Activation key	Yes ( <i>Default key 2</i> )	Yes ( <i>Default key 2</i> )	Yes ( <i>Default key 2</i> )
Switchboard call	Yes	Yes	Yes ( <i>Default key 3</i> )
Priority call to switchboard	Yes	Yes	Yes ( <i>Default key 5</i> )
Intercom calls	Yes	Yes	Yes
Multiple address call	Yes	Yes	Yes
Call divert	Yes	Yes	Yes
Silent mode (Privacy)	Yes	Yes	Yes
Door opening upon call (Doctor)	Yes	Yes	Yes ( <i>Default key 4</i> )
Door open signaling	Yes	Yes	Yes
<b>HARDWARE FEATURES</b>			
Type of buttons	Capacitive	Capacitive	Capacitive
No. of programmable buttons for additional functions	2	2	6
Removable terminals	Yes	Yes	Yes
<b>SETTINGS</b>			
Ringtone volume	Yes	Yes	Yes
Screen brightness	Yes	Yes	Yes
Screen colour	Yes	Yes	Yes
<b>ELECTRICAL CHARACTERISTICS</b>			
Type of power supply	Power supply from video door entry bus	Power supply from video door entry bus	Power supply from video door entry bus
Supply voltage	22÷34 VDC (Bus)	22÷34 VDC (Bus)	22÷34 VDC (Bus)
Maximum absorption (W)	5.40	5.40	5.40
<b>ENVIRONMENTAL AND COMPLIANCE FEATURES</b>			
IP protection degree	30	30	30
Operating temperature (°C)	5÷40	5÷40	5÷40
Operating relative humidity (%)	25÷75	25÷75	25÷75
Environmental class	I	I	I
Compliance and Certifications	RoHS II - 2011/65/UE (EN 50581:2012), EMC 2014/30/UE (EN 61000-6-1:2007 , EN 61000-6-3:2007+A1:2011)		

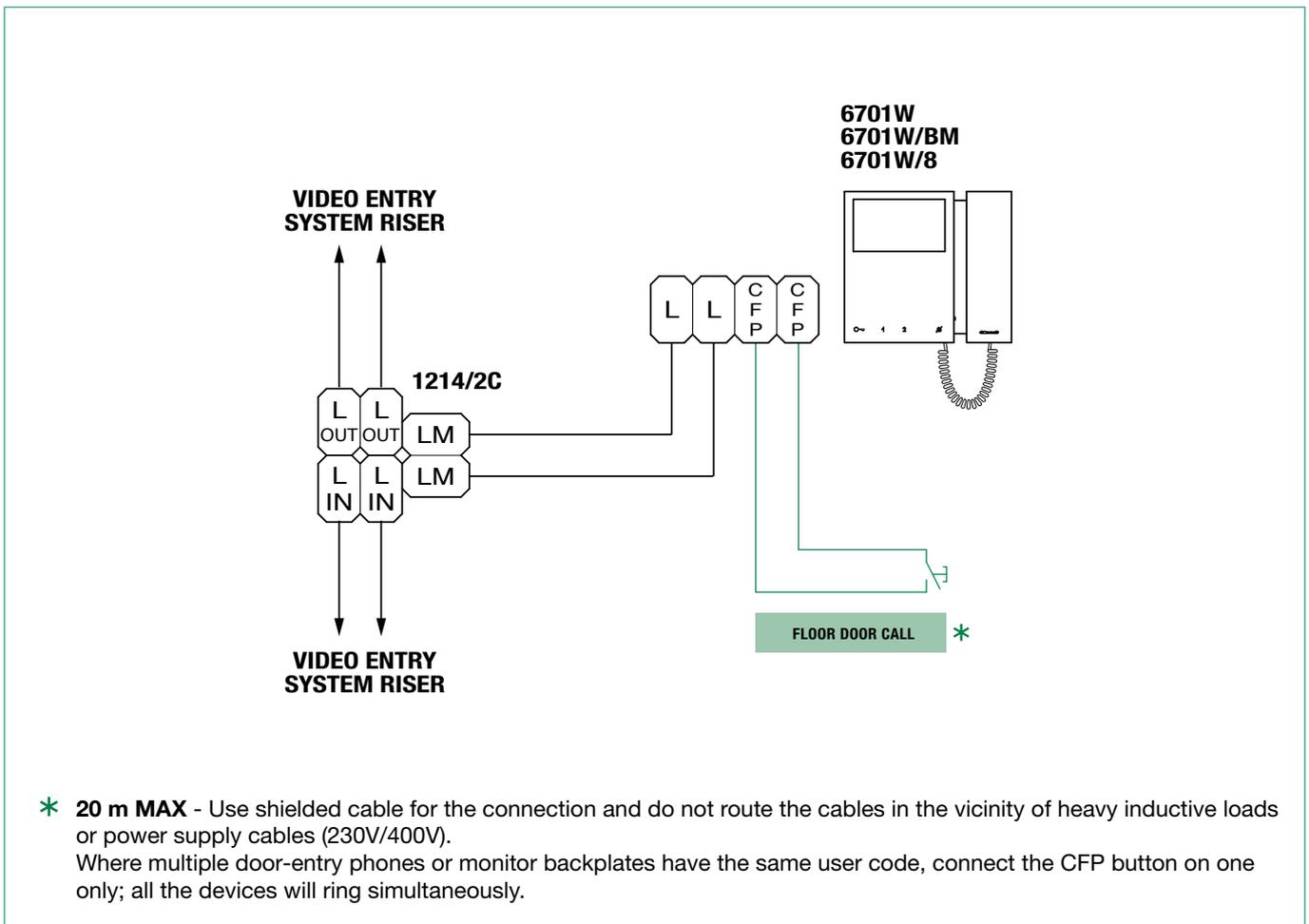
# Installation



## Removing / Fitting the terminal



## Connections



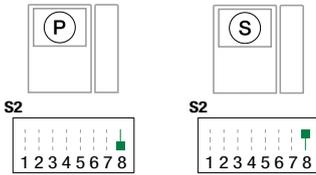
# Monitor configuration

## Main and secondary monitors

In systems with art. 1209 or 1210, you can configure a maximum of 1 main monitor, while in systems with art. 4888C you can configure a maximum of 2 main monitors.

To configure an internal unit as the **main** unit, set S2 **DIP 8 to OFF**

To configure an internal unit as a **secondary** unit, set S2 **DIP 8 to ON**

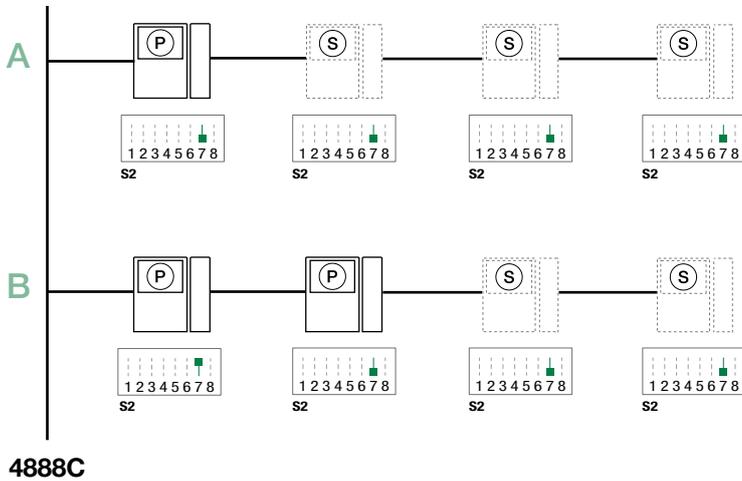


## Power supply management

### 6701W - 6701W/BM

For correct power supply management, **S2 DIP 7** should be set in accordance with the type of system and its configuration.

- in systems with power supply units 1209 and 1210: always set **S2 DIP 7 to ON**
- in systems with power supply unit 4888C: for secondary internal units, always set **S2 DIP 7 to OFF**; for main internal units, follow the indications given in the examples in the figure below:
  - 1 main internal unit
  - 2 main internal units



### 6701W/8

For correct power supply management, **S2 DIP 7** must always be set to **ON**, even in systems with 4888C and 4888CU (as in the factory settings).

# Button configuration

By default the buttons control the functions in row **A** ("Basic configuration" table).

It is possible to change the default configuration of the buttons by changing the positions of the S2 DIP switches 1-2-3-4 on the rear of the monitor to one of the combinations (B-P) proposed in the table. All the buttons will change function.

## Basic configuration

		S2 Dip switches				Mini 6701W/8							
		DIP 1	DIP 2	DIP 3	DIP 4	Mini 6701W - Mini 6701W/BM							
						C	1	2	3	4	5	6	
default ▶	<b>A</b>	OFF	OFF	OFF	OFF	▶	APRIP	ACT	AI	CCS	D	PAN	K
	<b>B</b>	ON	OFF	OFF	OFF		APRIP	CCS	AI	INT	INTb	D	ACT
	<b>C</b>	OFF	ON	OFF	OFF		APRIP	INT	AI	INTb	ACT	CCS	CCP
	<b>D</b>	ON	ON	OFF	OFF		APRIP	ACT	CCS	CCP	PAN	K	D
	<b>E</b>	OFF	OFF	ON	OFF		ACT	ACT	ACT	ACT	ACT	ACT	ACT
	<b>F</b>	ON	OFF	ON	OFF		APRIP	INT	ACT	CCS	CCP	INTb	PAN
	<b>G</b>	OFF	ON	ON	OFF		APRIP	AI	D	K	CCS	CCP	INTb
	<b>H</b>	ON	ON	ON	OFF		APRIP	INTb	INT	AI	INT	PAN	D
	<b>I</b>	OFF	OFF	OFF	ON		APRIP	CCS	PAN	D	AI	INTb	INTb
	<b>J</b>	ON	OFF	OFF	ON		APRIP	K	CCS	PAN	CCP	AI	INT
	<b>K</b>	OFF	ON	OFF	ON		APRIP	CCP	K	PAN	ACT	INT	AI
	<b>L</b>	ON	ON	OFF	ON		APRIP	PAN	CCP	CCS	K	ACT	D
	<b>M</b>	OFF	OFF	ON	ON		APRIP	INTb	AI	INT	ACT	D	CCS
	<b>N</b>	ON	OFF	ON	ON		APRIP	INT	INT	INT	INT	INT	INT
<b>P</b>	OFF	ON	ON	ON		NULL	NULL	NULL	NULL	NULL	NULL	NULL	
		ON	ON	ON	ON		PROG						

### Legend

<b>APRIP</b>	Lock-release	
<b>ACT</b>	Actuator	
<b>AI **</b>	Self Activation	
<b>CCP *</b>	Call to main switchboard	
<b>CCS *</b>	Call to secondary switchboard	
<b>K</b>	Caretaker door-entry phone call	<i>Press and release key</i>
<b>PAN *</b>	Priority call to switchboard	
<b>INT</b>	General or selective programmable intercom call. <i>Standard single-family call for KIT and Simplebus Top</i>	
<b>INTb</b>	Two-family intercom call - <i>For Kit only</i>	
<b>NULL</b>	No function	
<b>D **</b>	Door Opening Upon Call (Doctor)	<i>Press and hold key</i>
<b>PROG</b>	With these settings of the S2 DIP switches, the buttons control the programmed functions as in the "Advanced configuration".	

\* Cannot be used in kit systems

\*\*A long press enables/disables the function.

# Advanced configuration

If the standard configuration settings do not reflect requirements, the buttons can be programmed differently by carrying out the steps below.

**After programming, set S2 DIP switches 1-2-3-4 (PROG) to ON. With these DIP switch settings, the buttons manage the programmed functions.**

**i** The buttons that are NOT programmed control the functions in row A (*“Basic configuration”* table).

## Intercom calls

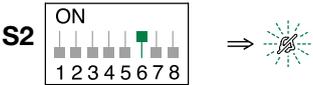
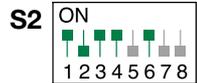
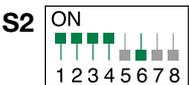
### Introduction

From an internal unit you can send an intercom call to:

- all devices of the same apartment (internal general intercom call)
- all devices of another apartment (external general intercom call)
- a single internal unit of an apartment identified by a dedicated intercom address different to the address that identifies the apartment (intercom call to selective address).
- a group of internal units of the same apartment or another apartment identified by a dedicated intercom address different to the address that identifies the apartment (selective group intercom call).

**i** General and selective intercoms CANNOT be used together on the same riser.

### Internal general intercom call and external general intercom call: button programming

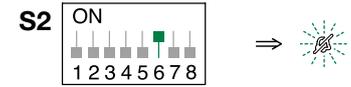
<p>1. Take note of the S1 DIP switch settings.</p>	
<p>2. To enter programming mode, set S2 <b>DIP switch 6</b> to ON. » the LED  switches on</p>	
<p>3. Refer to the table <i>“Basic configuration”</i> and select a combination in which the intercom function is listed for the buttons you wish to program.</p>	<p>Example:</p> 
<p>4. Set the S1 DIP switches according to the call address of the desired apartment. See <i>“Addressing table”</i></p>	
<p>5. Press and release the button to be associated with the function. » <i>Correct procedure indication</i>: the Lock release LED flashes for a few seconds and a confirmation tone sounds. » <i>Procedure error indication</i>: the Audio LED flashes for few seconds and an error tone sounds.</p>	
<p>6. Exit programming mode by setting S2 <b>DIP switch 6</b> to OFF. » LED  switches off</p>	
<p>7. Set S2 <b>DIP switches 1-2-3-4</b> to ON.</p>	
<p>8. Return S1 DIP switches to the original combination.</p>	

Intercom call to selective address: button programming

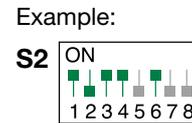
✓ It is necessary to carry out the 3 operations described in the paragraph "Assigning a selective address to the monitor".

1. Take note of the S1 DIP switch settings.

2. To enter programming mode, set S2 **DIP switch 6** to ON.  
 » the LED  switches on



3. Refer to the table **"Basic configuration"** and set on S2 a combination in which the intercom function associated with the buttons you wish to program appears.

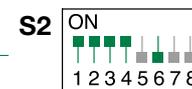


4. Set the S1 DIP switches according to the **selective** address of the internal unit you wish to call. Table B.

5. Press and release the button to be associated with the function.

- » *Correct procedure indication:* the *Lock release* LED flashes for a few seconds and a confirmation tone sounds.
- » *Procedure error indication:* the *Audio* LED flashes for few seconds and an error tone sounds.

6. Exit programming mode by setting S2 **DIP switch 6** to OFF.  
 » LED  switches off



7. Set S2 **DIP switches 1-2-3-4** to ON.

8. Return S1 DIP switches to the original combination.

Selective intercom address

You must set the intercom address on all the internal units of the riser.  
 You can assign the same intercom address to a maximum of 3 internal units.  
 For group calls, select the desired intercom codes simultaneously (max. 3).

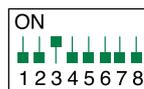
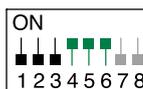
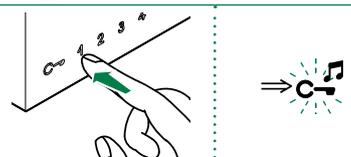
TABLE B

Code	S1 DIP switch ON	Code	S1 DIP switch ON
1	1 	5	5 
2	2 	6	6 
3	3 	7	7 
4	4 	8	8 

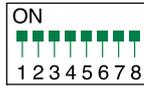
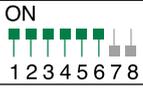
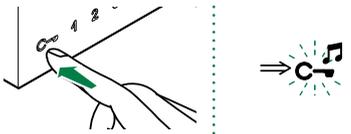
Assigning a selective address to the monitor

Assign to the monitor one of the 8 available intercom codes in TABLE B.

 Take note of the S2, S1 settings and restore on completion of programming

<p>1.</p> <p>Example address 3. Follow the steps as illustrated.</p> <p>S1  S2  ⇒ </p>	<p>2.</p> 
---	---

Deleting the selective address of the monitor.

<p>1.</p> <p>Carry out the operations as shown in the figure.</p> <p>S1  S2  ⇒ </p>	<p>2.</p> 
--	---

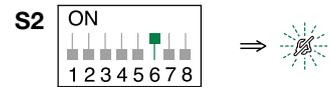
## Generic actuator, coded actuator

### Generic **actuator**: button programming

1. Take note of the S1 DIP switch settings.

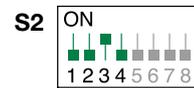
2. To enter programming mode, set S2 **DIP switch 6** to ON.

» the LED  switches on

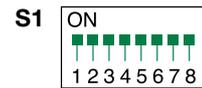


3. Refer to the table **“Basic configuration”** and set on S2 a combination in which the actuator function (ACT) associated with the buttons you wish to program appears.

Example:



4. Set all the S1 DIP switches to the ON position.



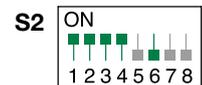
5. Press and release the button to be associated with the function.

» *Correct procedure indication*: the *Lock release* LED flashes for a few seconds and a confirmation tone sounds

» *Procedure error indication*: the *Audio* LED flashes for few seconds and an error tone sounds

6. Exit programming mode by setting S2 **DIP 6** to OFF.

» LED  switches off



7. Set S2 **DIP switches 1-2-3-4** to ON.

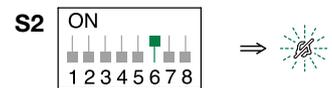
8. Return S1 DIP switches to the original combination.

### Coded **actuator**: button programming

1. Take note of the S1 DIP switch settings.

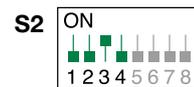
2. To enter programming mode, set S2 **DIP switch 6** to ON.

» the LED  switches on



3. Refer to the table **“Basic configuration”** and set on S2 a combination in which the actuator function (ACT) associated with the buttons you wish to program appears.

Example:



4. The S1 DIP switches with the desired code, according to **“Addressing table”**

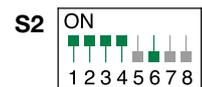
5. Press and release the button to be associated with the function.

» *Correct procedure indication*: the *Lock release* LED flashes for a few seconds and a confirmation tone sounds

» *Procedure error indication*: the *Audio* LED flashes for few seconds and an error tone sounds

6. Exit programming mode by setting S2 **DIP 6** to OFF.

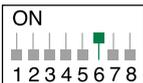
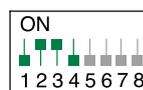
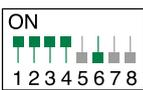
» LED  switches off



7. Set S2 **DIP switches 1-2-3-4** to ON.

8. Return S1 DIP switches to the original combination.

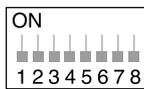
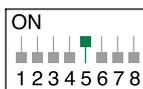
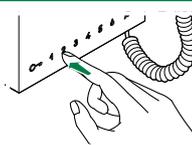
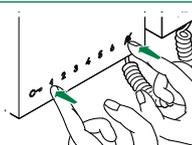
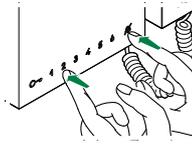
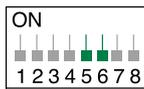
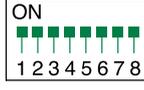
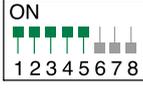
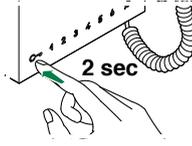
## Other functions: button programming

<p>1. To enter programming mode, set <b>S2 DIP switch 6</b> to ON.          » the LED  switches on</p>	<p>S2  ⇒ </p>
<p>2. Refer to the table <b>“Basic configuration”</b> and set on <b>S2</b> a combination in which the function associated with the buttons you wish to program appears.</p>	<p>Example:          S2 </p>
<p>3. Press and release the button to be associated with the function.          » <i>Correct procedure indication:</i> the Lock release LED flashes for a few seconds and a confirmation tone sounds          » <i>Procedure error indication:</i> the Audio LED flashes for few seconds and an error tone sounds</p>	
<p>4. Exit programming mode by setting <b>S2 DIP 6</b> to OFF.          » LED  switches off</p>	<p>S2 </p>
<p>5. Set <b>S2 DIP switches 1-2-3-4</b> to ON.</p>	

## Programming range



Take note of the S2, S1 settings and restore on completion of programming

	1.	2.	3.	4.
<p>Range minimum address</p>	<p>S1                       setting a code</p>	<p>S2   </p>		
<p>Range maximum address</p>	<p>“Addressing table”</p>			
<p>Enable range</p>				
<p>Disable range</p>				<p>S2   </p>
<p>Deleting the range</p>	<p>S1 </p>	<p>S2   </p>	 <p>2 sec</p>	

## Changing monitor ringtones

1. Press and hold C→ for 6 sec.

- » a confirmation tone will sound
- » the LED  will flash to indicate "programming" mode.

✓ the procedure can only take place while the system is in standby; otherwise the LED  will flash 4 times to inform the user that the system is busy.

2. Press and release C→

**Once** (1 confirmation tone is emitted) to change the ringtone for calls from the external unit.

**Twice** (2 confirmation tones emitted) to change the switchboard ringtone.

**3 times** (3 confirmation tones are emitted) to change the ringtone for intercom calls made from the internal unit.

**4 times** (4 confirmation tones are emitted) to change the floor door call ringtone.

Any further pressing of the C→ button repeats the sequence described above.

3. Press and release 1 to scroll through the various available ringtones in sequence.

4. Press 2 to confirm selection of the last ringtone heard and to exit (at any time) change monitor ringtone mode.

- » one confirmation tone is emitted
- » LED  switches off

5. Repeat steps 1 to 4 to change the other ringtones.

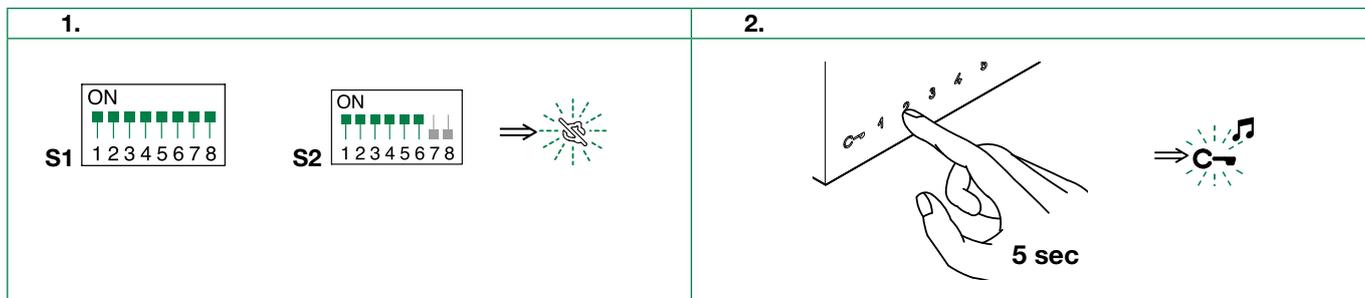
## Programming reset

### Factory settings:

- Button functions for the S2 DIP switches 1-2-3-4 combination
- Intercom address absent
- Range function and min./max. addresses absent
- Ringtone reset



Take note of the S2, S1 settings and restore on completion of programming



# Addressing table

Cod.	DIP switch ON														
1	1	31	1,2,3,4,5	61	1,3,4,5,6	91	1,2,4,5,7	121	1,4,5,6,7	151	1,2,3,5,8	181	1,3,5,6,8	211	1,2,5,7,8
2	2	32	6	62	2,3,4,5,6	92	3,4,5,7	122	2,4,5,6,7	152	4,5,8	182	2,3,5,6,8	212	3,5,7,8
3	1,2	33	1,6	63	1,2,3,4,5,6	93	1,3,4,5,7	123	1,2,4,5,6,7	153	1,4,5,8	183	1,2,3,5,6,8	213	1,3,5,7,8
4	3	34	2,6	64	7	94	2,3,4,5,7	124	3,4,5,6,7	154	2,4,5,8	184	4,5,6,8	214	2,3,5,7,8
5	1,3	35	1,2,6	65	1,7	95	1,2,3,4,5,7	125	1,3,4,5,6,7	155	1,2,4,5,8	185	1,4,5,6,8	215	1,2,3,5,7,8
6	2,3	36	3,6	66	2,7	96	6,7	126	2,3,4,5,6,7	156	3,4,5,8	186	2,4,5,6,8	216	4,5,7,8
7	1,2,3	37	1,3,6	67	1,2,7	97	1,6,7	127	1,2,3,4,5,6,7	157	1,3,4,5,8	187	1,2,4,5,6,8	217	1,4,5,7,8
8	4	38	2,3,6	68	3,7	98	2,6,7	128	8	158	2,3,4,5,8	188	3,4,5,6,8	218	2,4,5,7,8
9	1,4	39	1,2,3,6	69	1,3,7	99	1,2,6,7	129	1,8	159	1,2,3,4,5,8	189	1,3,4,5,6,8	219	1,2,4,5,7,8
10	2,4	40	4,6	70	2,3,7	100	3,6,7	130	2,8	160	6,8	190	2,3,4,5,6,8	220	3,4,5,7,8
11	1,2,4	41	1,4,6	71	1,2,3,7	101	1,3,6,7	131	1,2,8	161	1,6,8	191	1,2,3,4,5,6,8	221	1,3,4,5,7,8
12	3,4	42	2,4,6	72	4,7	102	2,3,6,7	132	3,8	162	2,6,8	192	7,8	222	2,3,4,5,7,8
13	1,3,4	43	1,2,4,6	73	1,4,7	103	1,2,3,6,7	133	1,3,8	163	1,2,6,8	193	1,7,8	223	1,2,3,4,5,7,8
14	2,3,4	44	3,4,6	74	2,4,7	104	4,6,7	134	2,3,8	164	3,6,8	194	2,7,8	224	6,7,8
15	1,2,3,4	45	1,3,4,6	75	1,2,4,7	105	1,4,6,7	135	1,2,3,8	165	1,3,6,8	195	1,2,7,8	225	1,6,7,8
16	5	46	2,3,4,6	76	3,4,7	106	2,4,6,7	136	4,8	166	2,3,6,8	196	3,7,8	226	2,6,7,8
17	1,5	47	1,2,3,4,6	77	1,3,4,7	107	1,2,4,6,7	137	1,4,8	167	1,2,3,6,8	197	1,3,7,8	227	1,2,6,7,8
18	2,5	48	5,6	78	2,3,4,7	108	3,4,6,7	138	2,4,8	168	4,6,8	198	2,3,7,8	228	3,6,7,8
19	1,2,5	49	1,5,6	79	1,2,3,4,7	109	1,3,4,6,7	139	1,2,4,8	169	1,4,6,8	199	1,2,3,7,8	229	1,3,6,7,8
20	3,5	50	2,5,6	80	5,7	110	2,3,4,6,7	140	3,4,8	170	2,4,6,8	200	4,7,8	230	2,3,6,7,8
21	1,3,5	51	1,2,5,6	81	1,5,7	111	1,2,3,4,6,7	141	1,3,4,8	171	1,2,4,6,8	201	1,4,7,8	231	1,2,3,6,7,8
22	2,3,5	52	3,5,6	82	2,5,7	112	5,6,7	142	2,3,4,8	172	3,4,6,8	202	2,4,7,8	232	4,6,7,8
23	1,2,3,5	53	1,3,5,6	83	1,2,5,7	113	1,5,6,7	143	1,2,3,4,8	173	1,3,4,6,8	203	1,2,4,7,8	233	1,4,6,7,8
24	4,5	54	2,3,5,6	84	3,5,7	114	2,5,6,7	144	5,8	174	2,3,4,6,8	204	3,4,7,8	234	2,4,6,7,8
25	1,4,5	55	1,2,3,5,6	85	1,3,5,7	115	1,2,5,6,7	145	1,5,8	175	1,2,3,4,6,8	205	1,3,4,7,8	235	1,2,4,6,7,8
26	2,4,5	56	4,5,6	86	2,3,5,7	116	3,5,6,7	146	2,5,8	176	5,6,8	206	2,3,4,7,8	236	3,4,6,7,8
27	1,2,4,5	57	1,4,5,6	87	1,2,3,5,7	117	1,3,5,6,7	147	1,2,5,8	177	1,5,6,8	207	1,2,3,4,7,8	237	1,3,4,6,7,8
28	3,4,5	58	2,4,5,6	88	4,5,7	118	2,3,5,6,7	148	3,5,8	178	2,5,6,8	208	5,7,8	238	2,3,4,6,7,8
29	1,3,4,5	59	1,2,4,5,6	89	1,4,5,7	119	1,2,3,5,6,7	149	1,3,5,8	179	1,2,5,6,8	209	1,5,7,8	239	1,2,3,4,6,7,8
30	2,3,4,5	60	3,4,5,6	90	2,4,5,7	120	4,5,6,7	150	2,3,5,8	180	3,5,6,8	210	2,5,7,8	* 240	5,6,7,8

\* NOTE: code 240 is reserved for the porter switchboard

## System performance and layouts

For further information of system performance and to view installation layouts, click on the type of system that best meets your needs:

- [Audio/video kit](#) for the creation of audio-video systems for *individual residences*.
- [Building Kit audio/video system](#) for the creation of audio-video systems for *small apartment blocks*.
- [SBTOP audio/video system](#) for the creation of audio-video systems for *residential complexes*.

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