bticino

WIRING DIAGRAMS

Example 1 - The villa

ONE-FAMILY VIDEO DOOR-ENTRY SYSTEM WITH INTERCOM BETWEEN VIDEO HANDSETS

Video Station Nighter

Video Station Whice

Video adapter   *Power supply*

Entrance panel

LIVING ROOM
349320
ON
$N = -$
$= 5$
$P = -$
$M = -$

ROOM 1
349321
$N = -$
$= 4$
$P = -$
$M = -$
OFF

ROOM 2
349320
OFF
$N = -$
$= 2$
$P = -$
$M = -$

KITCHEN
349321
$N = -$
$= 3$
$P = -$
$M = -$
OFF

RECEPTION ROOM
349320
OFF
$N = -$
$= 1$
$P = -$
$M = -$

BUS

230 Vac
TR
Additional door lock

346830
346000
BUS TK
BUS PI
PS
IP30
BUS 2 1
230 Vac

$P = 1$
$= -$
$T = -$
$M = -$
$JMP = -$
$JMP = -$
346230

343001
$P = -$
$= -$
$N = -$
$= 1$
$T = -$
$S = 9$

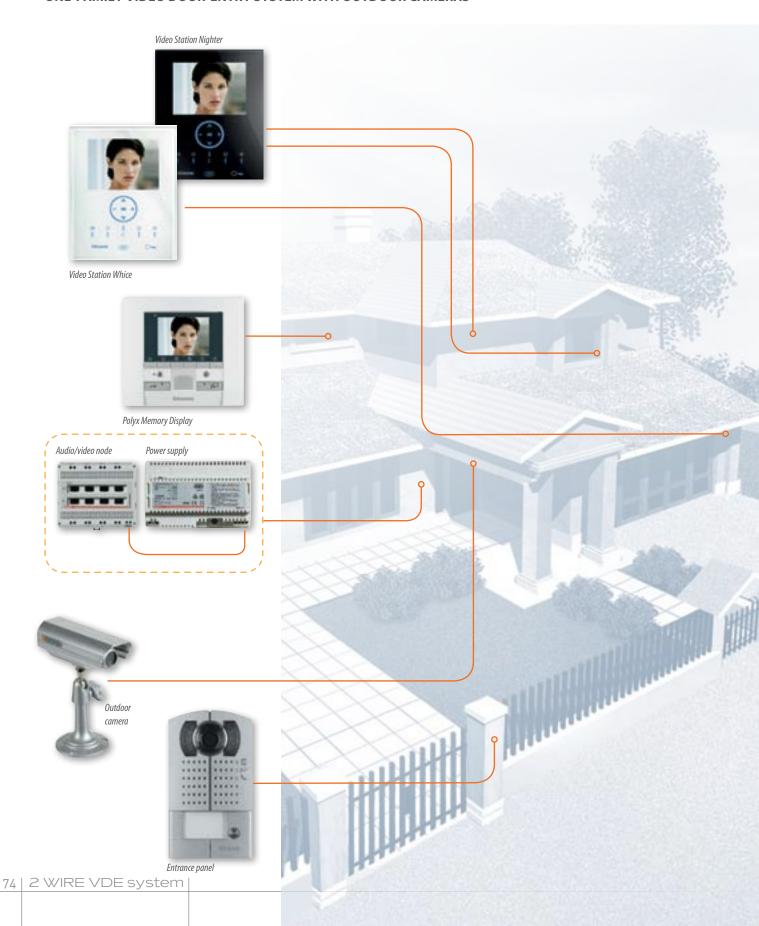BUS PL S+ S-
S1 Door lock
PS

■ Max. 5 handsets
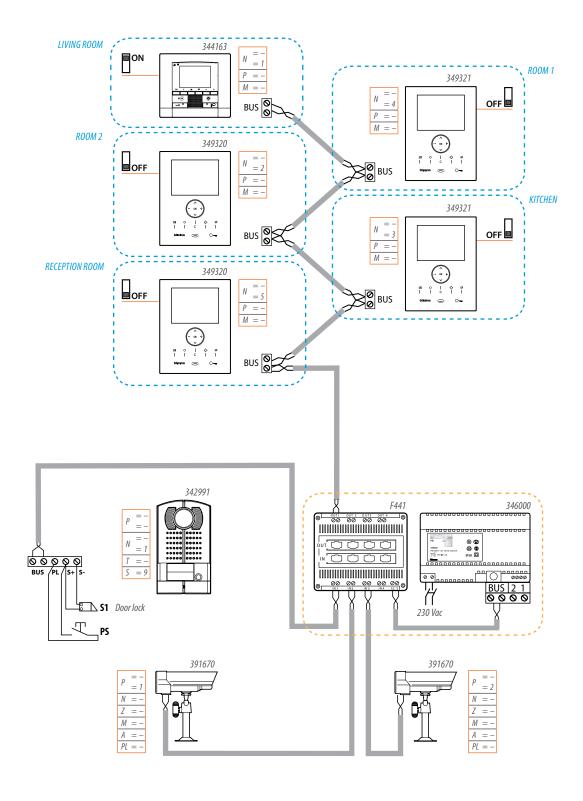■ Max. 200 metres between the entrance panel and the last handset with cable, item 336904

Note 1: We recommend that the video handsets are configured using the software supplied with the product
Note 2: When a call is received, only the video handset configured with N=1 comes on

Example 2 - The villa

ONE-FAMILY VIDEO DOOR-ENTRY SYSTEM WITH OUTDOOR CAMERAS

Video Station Nighter

Video Station Whice

Polyx Memory Display

Audio/video node   *Power supply*

Outdoor camera

Entrance panel

LIVING ROOM

344163

ON

N	= –
	= 1
P	= –
M	= –

BUS

ROOM 1

349321

OFF

N	= –
	= 4
P	= –
M	= –

BUS

ROOM 2

349320

OFF

N	= –
	= 2
P	= –
M	= –

BUS

KITCHEN

349321

OFF

N	= –
	= 3
P	= –
M	= –

BUS

RECEPTION ROOM

349320

OFF

N	= –
	= 5
P	= –
M	= –

BUS

342991

P	= –
	= –
N	= –
	= 1
T	= –
S	= 9

BUS PL S+ S-

S1 *Door lock*

PS

F441

346000

OUT1 OUT2 OUT3 OUT4

OUT

IN

IN1 IN2 IN3 IN4 SC S

230 Vac

BUS 2 1

391670

P	= –
	= 1
N	= –
Z	= –
M	= –
A	= –
PL	= –

391670

P	= –
	= 2
N	= –
Z	= –
M	= –
A	= –
PL	= –

■ *Max. 5 handsets*
■ *Max. 200 metres between the entrance panel and the last handset with cable, item 336904*
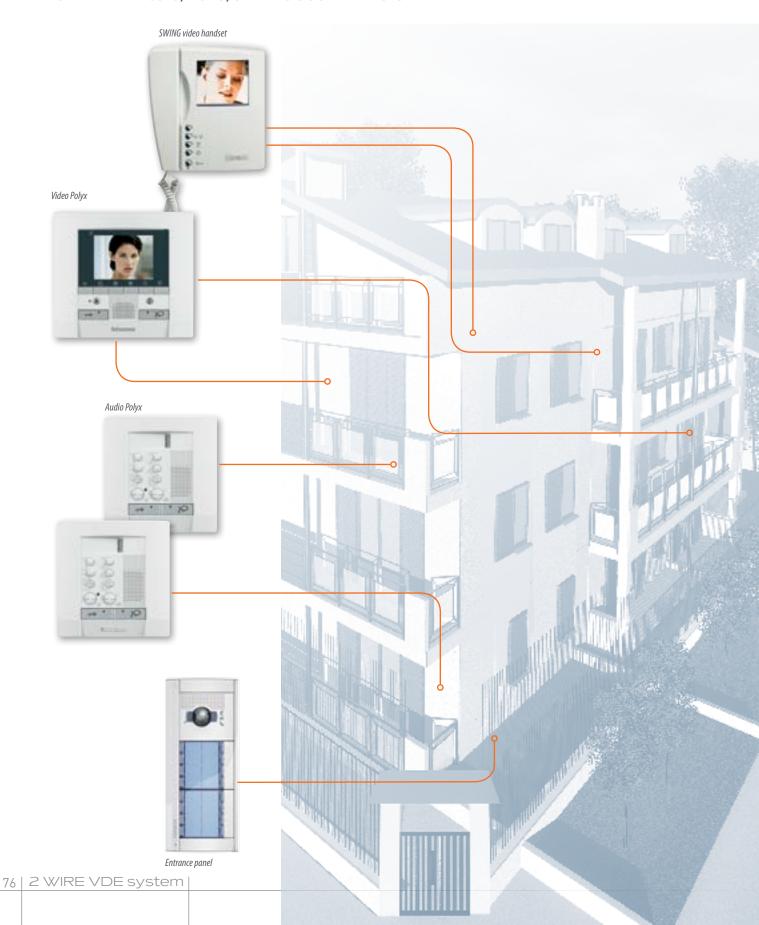
NOTE 1: We recommend that the video handsets are configured using the software supplied with the product
NOTE 2: The answering machine function is available only using the 344163 video handset, and can only be activated on 1 video handset (the one configured with N=1)
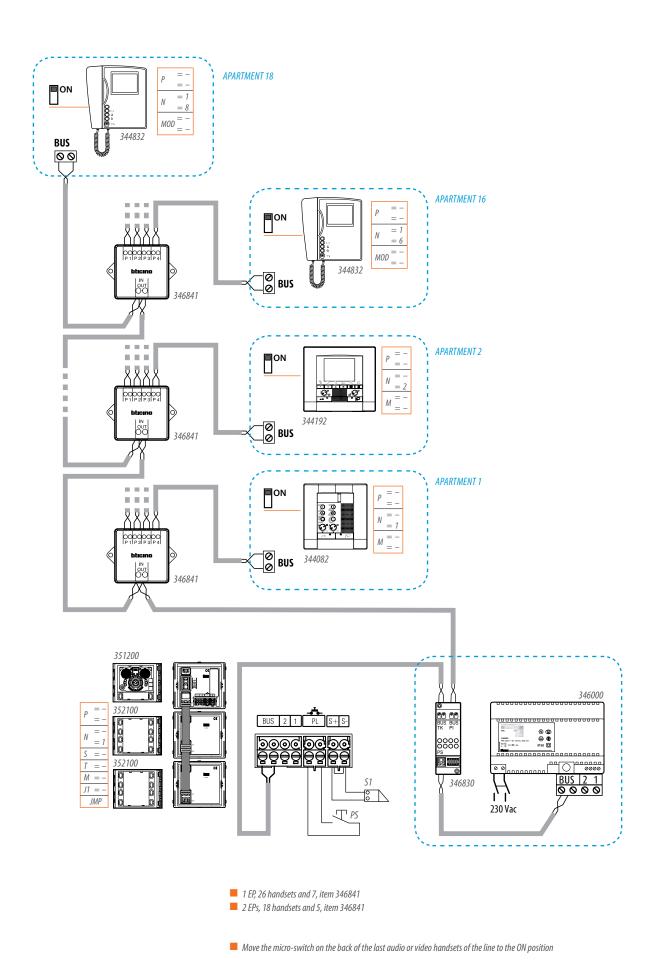*NOTE 3: When a call is received, only the video handset configured with N=1 comes on*

Example 3 - The apartment blocks

MULTI-FAMILY AUDIO, VIDEO, OR MIXED DOOR ENTRY SYSTEM

SWING video handset

Video Polyx

Audio Polyx

Entrance panel

![BTICINO]

APARTMENT 18

ON

P	= –
	= –
N	= 1
	= 8
MOD	= –
	= –

344832

BUS

APARTMENT 16

ON

P	= –
	= –
N	= 1
	= 6
MOD	= –
	= –

344832

BUS

346841

P1 P2 P3 P4

IN
OUT

APARTMENT 2

ON

P	= –
	= –
N	= –
	= 2
M	= –
	= –

344192

BUS

346841

P1 P2 P3 P4

IN
OUT

APARTMENT 1

ON

P	= –
	= –
N	= –
	= 1
M	= –
	= –

344082

BUS

346841

P1 P2 P3 P4

IN
OUT

351200

352100

P	= –
	= –
N	= –
	= 1
S	= –
T	= –
M	= –
J1	= –
JMP	

352100

BUS 2 1   PL   S+ S–

S1

PS

BUS BUS
TK PI

PS

346830

346000

230 Vac

BUS 2 1

- 1 EP, 26 handsets and 7, item 346841
- 2 EPs, 18 handsets and 5, item 346841

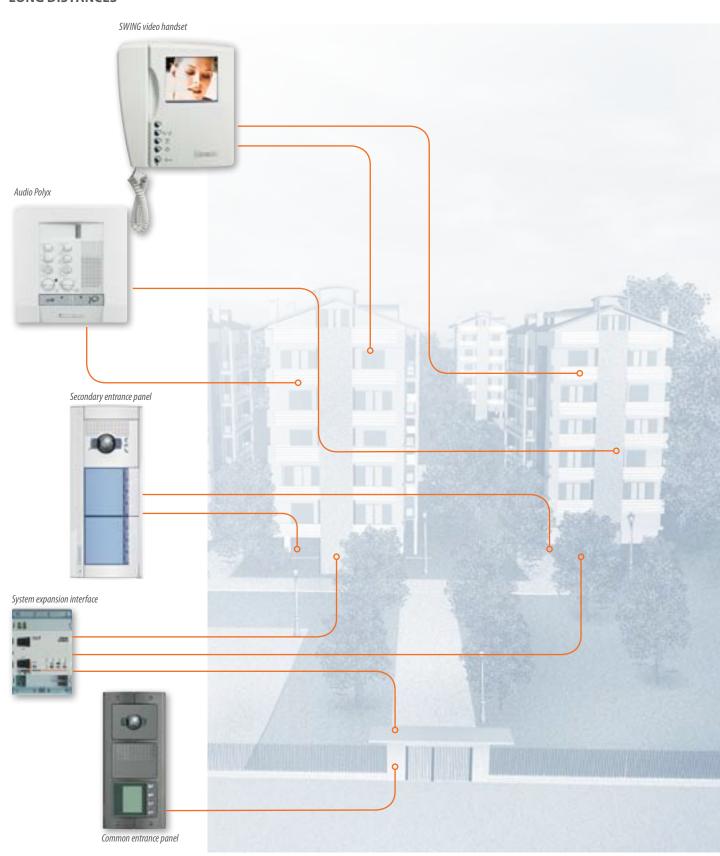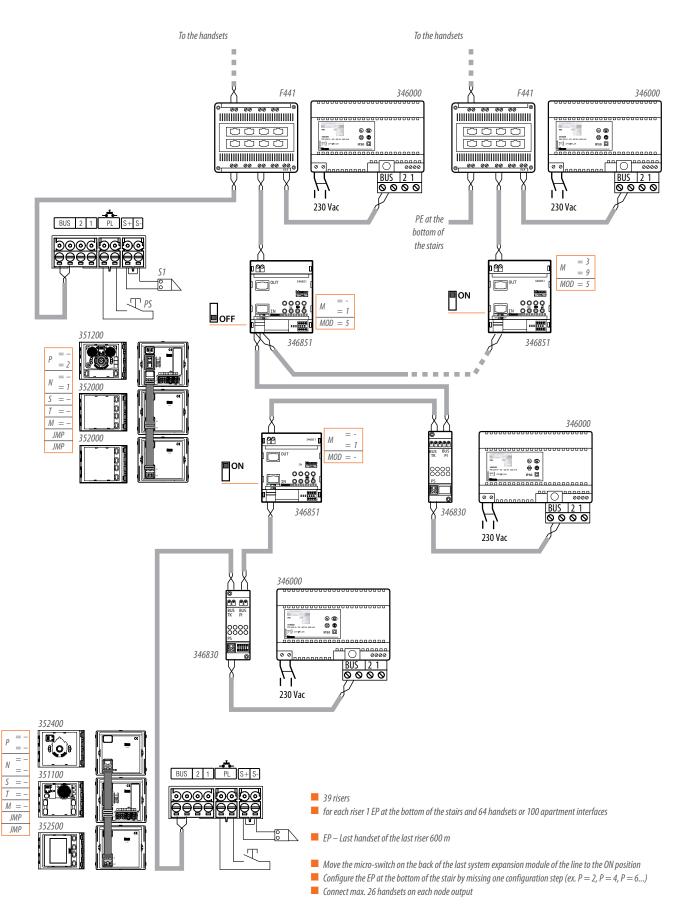- Move the micro-switch on the back of the last audio or video handsets of the line to the ON position

Example 4 - The group of apartment blocks

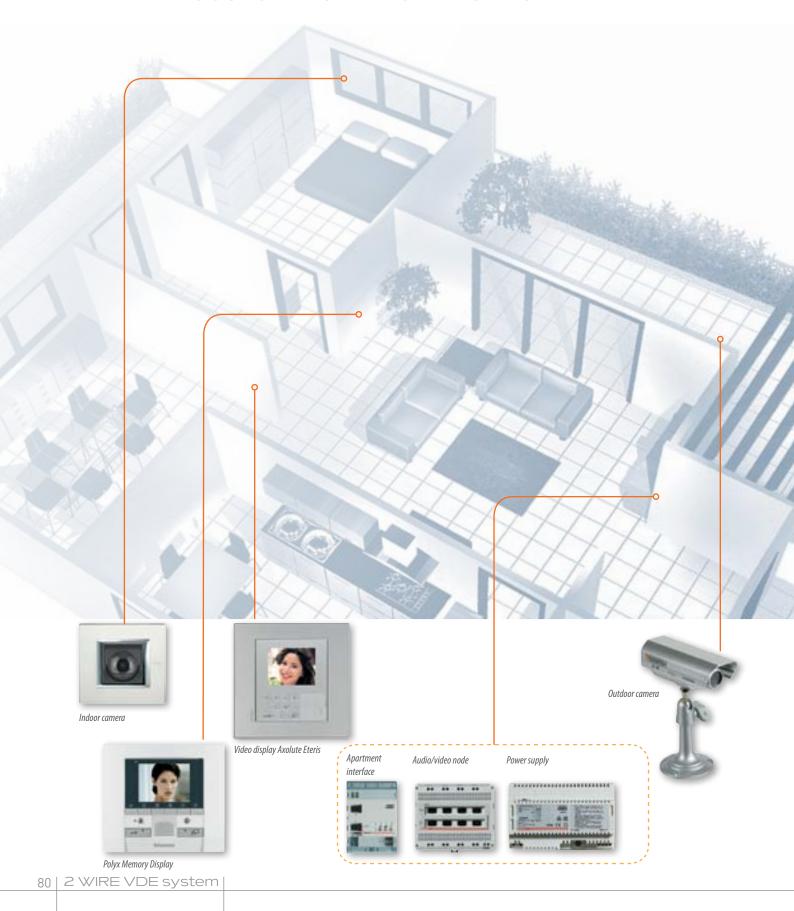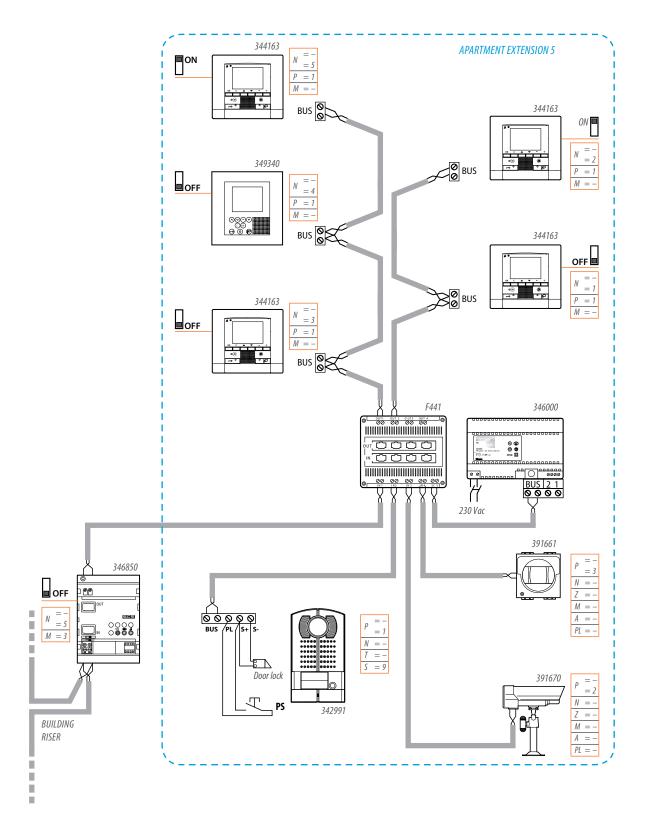**MULTI-FAMILY SYSTEM CONSISTING OF SEVERAL BUILDINGS, ONE CONDOMINIUM ENTRANCE PANEL AND LONG DISTANCES**

SWING video handset

Audio Polyx

Secondary entrance panel

System expansion interface

Common entrance panel

To the handsets

To the handsets

F441

346000

F441

346000

BUS 2 1

230 Vac

BUS 2 1

230 Vac

PE at the
bottom of
the stairs

BUS 2 1 PL S+ S-

S1

PS

M	= -
	= 1
MOD	= 5

OUT 346851

IN

OFF

346851

M	= 3
	= 9
MOD	= 5

ON

OUT 346851

IN

346851

351200

P	= -
	= 2
N	= -
	= 1
S	= -
T	= -
M	= -
JMP	
JMP	

352000

352000

M	= -
	= 1
MOD	= -

OUT 346851

ON

IN

346851

BUS BUS
TK PI

PS

346830

346000

BUS 2 1

230 Vac

346000

BUS BUS
TK PI

PS

346830

346000

BUS 2 1

230 Vac

352400

P	= -
	= -
N	= -
	= -
S	= -
T	= -
M	= -
JMP	
JMP	

351100

352500

BUS 2 1 PL S+ S-

- 39 risers
- for each riser 1 EP at the bottom of the stairs and 64 handsets or 100 apartment interfaces

- EP – Last handset of the last riser 600 m

- Move the micro-switch on the back of the last system expansion module of the line to the ON position
- Configure the EP at the bottom of the stair by missing one configuration step (ex. P = 2, P = 4, P = 6...)
- Connect max. 26 handsets on each node output

Example 5 - The apartment

APARTMENT WITH DEDICATED ENTRANCE PANEL AND PRIVATE CAMERAS

Indoor camera

Video display Axolute Eteris

Polyx Memory Display

Apartment interface

Audio/video node

Power supply

Outdoor camera

APARTMENT EXTENSION 5

344163

ON

N	= –
	= 5
P	= 1
M	= –

344163

ON

N	= –
	= 2
P	= 1
M	= –

BUS

349340

OFF

N	= –
	= 4
P	= 1
M	= –

BUS

BUS

344163

OFF

N	= –
	= 1
P	= 1
M	= –

BUS

344163

OFF

N	= –
	= 3
P	= 1
M	= –

BUS

BUS

F441

OUT1 OUT 2 O UT3 OUT 4

OUT

IN

IN 1 I N2 IN 3 IN 4 SC S-

346000

IP30

BUS 2 1

230 Vac

346850

OFF

N	= –
	= 5
M	= 3

OUT

IN

391661

P	= –
	= 3
N	= –
Z	= –
M	= –
A	= –
PL	= –

BUS PL S+ S-

Door lock

PS

342991

P	= –
	= 1
N	= –
T	= –
S	= 9

391670

P	= –
	= 2
N	= –
Z	= –
M	= –
A	= –
PL	= –

BUILDING
RISER

■ Max. 5 video handsets, 1 apartment EP and 2 apartment cameras

Note 1: We recommend that the video handsets are configured using the software supplied with the product; in order to use the software, the device cannot be configured physically

Note 2: Configure the entrance panels and the apartment cameras starting from (P=1)
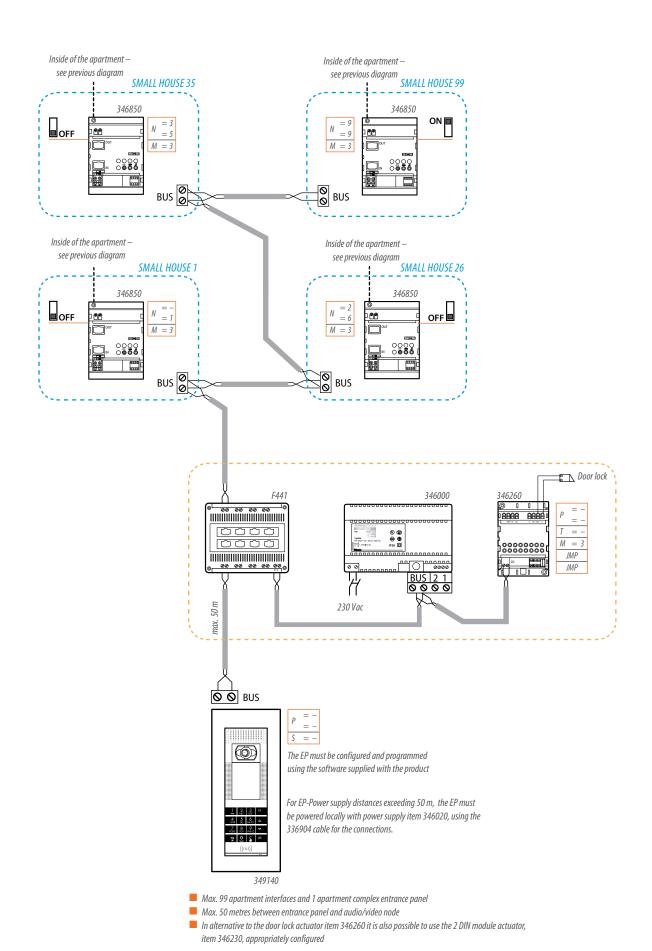
Note 3: The audio/video answering machine can only be activated on one 344163 video handset (the one configured with N=1)

Example 6 - Complexes of small houses

MULTI-FAMILY SYSTEM WITH SINGLE INDEPENDENT DWELLINGS AND AT LEAST ONE COMMON ACCESS POINT

Apartment interface

Common entrance panel

Audio/video node

Power supply

Inside of the apartment –
see previous diagram

SMALL HOUSE 35

346850

OFF

$N = 3$
$= 5$
$M = 3$

BUS

Inside of the apartment –
see previous diagram

SMALL HOUSE 99

346850

ON

$N = 9$
$= 9$
$M = 3$

BUS

Inside of the apartment –
see previous diagram

SMALL HOUSE 1

346850

OFF

$N = -$
$= 1$
$M = 3$

BUS

Inside of the apartment –
see previous diagram

SMALL HOUSE 26

346850

OFF

$N = 2$
$= 6$
$M = 3$

BUS

F441

346000

346260

Door lock

$P = -$
$= -$
$T = -$
$M = 3$
JMP
JMP

BUS 2 1

max. 50 m

230 Vac

BUS

$P = -$
$= -$
$S = -$

*The EP must be configured and programmed
using the software supplied with the product*

*For EP-Power supply distances exceeding 50 m, the EP must
be powered locally with power supply item 346020, using the
336904 cable for the connections.*

349140

■ *Max. 99 apartment interfaces and 1 apartment complex entrance panel*
■ *Max. 50 metres between entrance panel and audio/video node*
■ *In alternative to the door lock actuator item 346260 it is also possible to use the 2 DIN module actuator,
   item 346230, appropriately configured*

1 or more main audio Entrance Panels and secondary EP

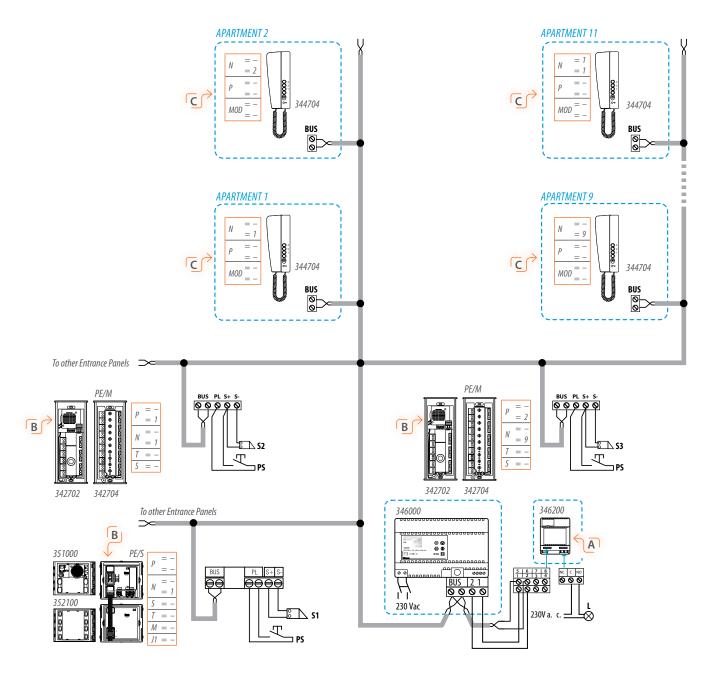| ITEM	DESCRIPTION
351000	SFERA basic speaker module
352000	SFERA pushbutton module
344704	SWING audio handset
344242	ECO audio handset
346040	Audio power supply
346200	Actuator
336842	Transformer 12 V ~
L	Staircase light
PE	SFERA entrance panel (main)
PE/S	SFERA entrance panel (secondary)
PS	Door lock release pushbutton
S1-S2-S3	Electrical door lock, max. 4A

⚠ WARNING

■ Configure and insert the Jumpers with the system SWITCHED OFF. Also every time the configuration is modified the power supply to the system must be switched off and on again, waiting about 1 minute.

A Use of the actuator is necessary for the staircase light service or generic actuations.

B For the Entrance Panel, all the pushbutton panels of SFERA/SFERA CLASSIC or MINISFERA can be used.

C To install alternative Handsets to those indicated in the diagrams refer to "HANDSET VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

1 or more audio Entrance Panels
max. 100 Handsets

ITEM	DESCRIPTION
342702	MINISFERA speaker module
342704	Pushbutton module
S1	Electric door lock 18 V 4 A impulsive
	250mA holding current (max. 30 Ohm)
344704	SWING audio handset
344082	POLYX AUDIO handset
344242	ECO audio handset
346000	Power supply
346200	Actuator
PS	Door lock release pushbutton
TR	Transformer
L	Staircase light

⚠ WARNING

■ Configure and insert the Jumpers with the system SWITCHED OFF. Also every time the configuration is modified the power supply to the system must be switched off and on again, waiting about 1 minute.

Entrance panel configuration

	P	N	T	S
PE0	–	–	1	–	–
PE1	–	1	–	1	–	–
PE2	–	2	–	1	–	–
---	–	–	–	1	–	–
PE8	–	8	–	1	–	–
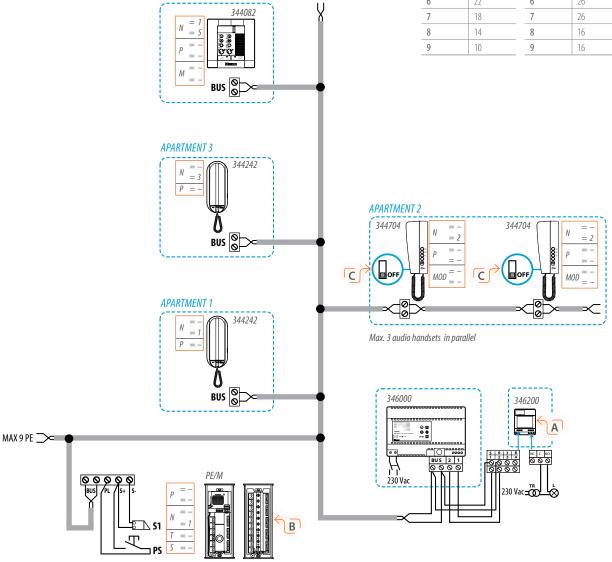
N = first apartment that can be called by the EP
For the configuration of T and S see the technical sheets of the individual devices

A Use of the actuator is optional for the staircase light service or generic actuations.

B For the realization of the Entrance Panel can be used without distinction the SFERA or MINISFERA pushbutton panels or the universal speaker unit or the digital call modules.

C In audio systems the micro-switch on the handset is always OFF.

Audio 2 WIRE general limits

No. SFERA EP	MAX. No. HANDSETS	No. MINI-SFERA EP	MAX. No. HANDSETS
1	100	1	66
2	64	2	66
3	50	3	56
4	38	4	46
5	30	5	36
6	22	6	26
7	18	7	26
8	14	8	16
9	10	9	16

Max. 3 audio handsets in parallel

1 or more main audio entrance panels and secondary EP max. 100 Handsets

ITEM	DESCRIPTION
351000	SFERA speaker module
352100	SFERA pushbutton module
342702	MINISFERA speaker module
342704	MINISFERA pushbutton module
344704	SWING audio handset
346000	Power supply
346200	Actuator
L	Staircase light
PE/M	MINISFERA entrance panel
PE/S	SFERA entrance panel (main)
PS	Door lock release pushbutton
S1 - S2 - S3	Electric door lock 18 V 4 A impulsive 250mA holding current (max. 30 Ohm)

⚠ WARNING

■ Configure and insert the Jumpers with the system SWITCHED OFF. Also every time the configuration is modified the power supply to the system must be switched off and on again, waiting about 1 minute.

A Use of the actuator is necessary for the staircase light service or generic actuations.

B For the realization of the Entrance Panel can be used without distinction the SFERA or MINISFERA pushbutton panels or the universal speaker unit or the digital call modules.
For more information consult the "ENTRANCE PANEL VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

C To install alternative Handsets to those indicated in the diagrams refer to "HANDSET VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

One-family system with 1 or more audio EP and 5 Handsets in parallel and intercommunicating

bticino
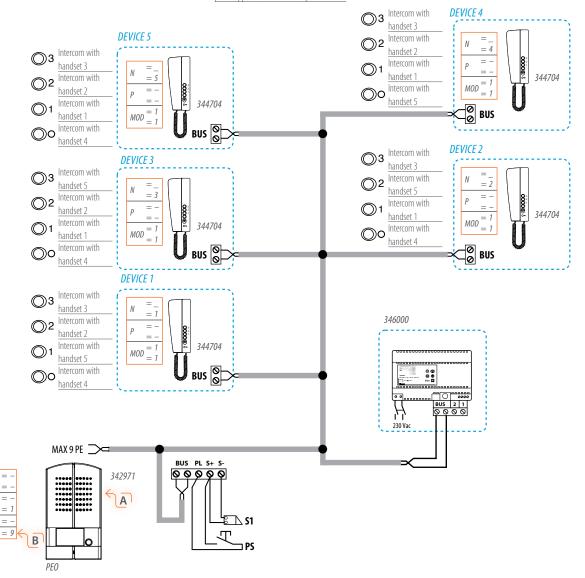
ITEM	DESCRIPTION
342971	Linea 2000 Metal entrance panel
S1	Electric door lock 18 V 4 A impulsive
	250 mA holding current (max. 30 Ohm)
344704	SWING audio handset
346000	Power supply
PS	Door lock release pushbutton

⚠ WARNING

■ Configure and insert the Jumpers with the system SWITCHED OFF. Also every time the configuration is modified the power supply to the system must be switched off and on again, waiting about 1 minute.

■ The intercom function is operating even with a lack of Entrance Panel connection.

A For the Entrance Panel, all the pushbutton panels of SFERA/SFERA CLASSIC or MINISFERA can be used.

B Fit a "9" configurator to be inserted in S on the speaker module.

Entrance panel configuration				
	P	N	T		S
PE0	–	–	–	1	–	9
PE1	–	1	–	1	–	9
PE2	–	2	–	1	–	9
---	–	–	–	1	–	9
PE8	–	8	–	1	–	9

N = primo appartamento che il PE può chiamare
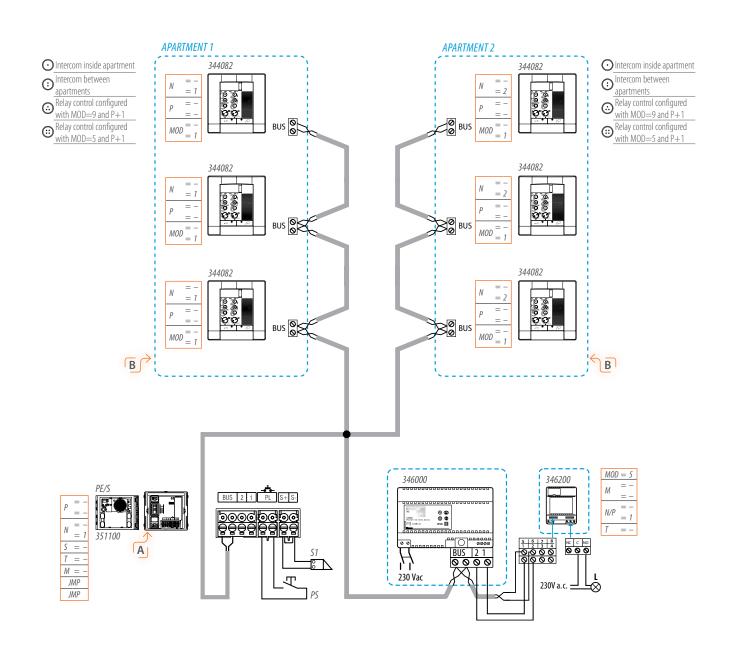
Two-family system, 1 EP and 3 Handsets for apartment with "internal intercom and between the apartments" function

ITEM	DESCRIPTION
351100	Speaker module SFERA
344082	POLYX AUDIO handset
346000	Power supply
PE/S	SFERA entrance panel (main)
PL1	Door lock release pushbutton
S1	Electric door lock 18 V 4 A impulsive
	250 mA holding current (max. 30 Ohm)

To have the intercom function among apartments in two-family systems with SWING handsets configured with MOD = 53 (or 73)

⚠ WARNING

■ Configure and insert the Jumpers with the system SWITCHED OFF. Also every time the configuration is modified the power supply to the system must be switched off and on again, waiting about 1 minute.

■ The intercom function is operating even with a lack of Entrance Panel connection.

■ Intercom function between devices allows to call the devices of the same apartment or of another apartment.

A For the realization of the Entrance Panel can be used without distinction the SFERA/SFERA CLASSIC (not with digital call), MINISFERA or LINEA 2000 pushbutton panels.
For more information consult the "ENTRANCE PANEL VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

B To install alternative Handsets to those indicated in the diagrams refer to "HANDSET VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.
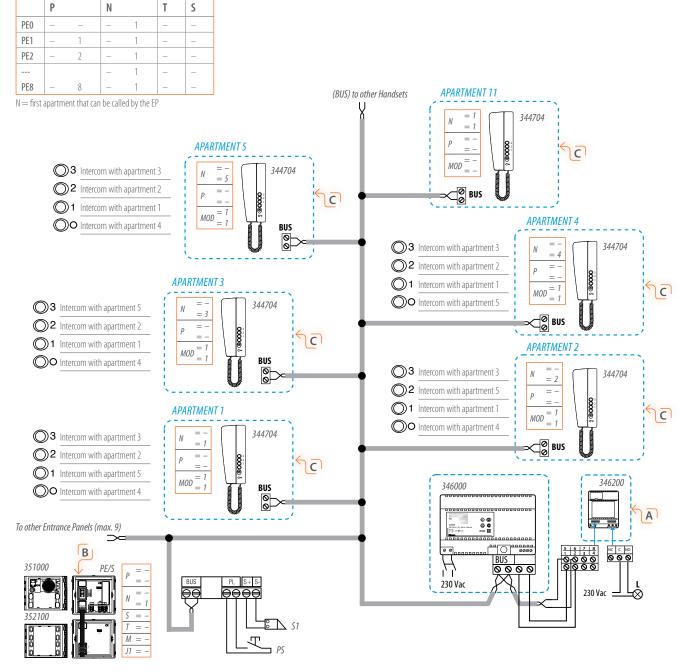
Multi-family system with 1 or more main EP, max. 100 Handsets with 5 intercommunicating

ITEM	DESCRIPTION
351000	Speaker module SFERA
352100	Pushbutton module SFERA
344704	SWING audio handset
346000	Power supply
346200	Actuator
L	Staircase light
PE/S	SFERA entrance panel (main)
PL	Door lock release pushbutton
S1	Electric door lock 18 V 4 A impulsive 250 mA holding current (max. 30 Ohm)

⚠ WARNING

■ Configure and insert the Jumpers with the system SWITCHED OFF. Also every time the configuration is modified the power supply to the system must be switched off and on again, waiting about 1 minute.
■ The intercom function is operating even with a lack of Entrance Panel connection.
■ The Intercom function can be used with PIVOT, POLYX and SWING audio handsets configured from N=1 to N=5.

A Use of the actuator is optional for the staircase light service or generic actuations.

B For the realization of the Entrance Panel can be used without distinction the SFERA/SFERA CLASSIC (not with digital call) or MINISFERA pushbutton panels. For more information consult the "ENTRANCE PANEL VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

C To install alternative Handsets to those indicated in the diagrams refer to "HANDSET VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

Entrance panel configuration

	P	N	T	S
PE0	–	–	–	1	–	–
PE1	–	1	–	1	–	–
PE2	–	2	–	1	–	–
---		–	1	–	–
PE8	–	8	–	1	–	–

N = first apartment that can be called by the EP

1 or more main audio Entrance Panels with universal speaker unit

In systems with more than 8 pushbuttons, it is necessary to provide, in addition to the item 346991 and item 346992 for every 8 pushbuttons; for the connection, a multicable with 2 connectors together with item 346992 must be utilized. The diagram below shows the internal wiring between the speaker module item 346991, one or more expander item 346992 and the pushbuttons in systems with more than 8 handsets.

ITEM	DESCRIPTION
336842	Transformer
344704	SWING audio handset
346000	Power supply
346040	Power supply
346230	Door lock actuator
346991	Universal speaker module
346992	Pushbutton expander
PS	Door lock release pushbutton
S1	Electrical door lock

Entrance panel configuration

	P	N	T	S		
PE0	–	–	–	1	–	–
PE1	–	1	–	1	–	–
PE2	–	2	–	1	–	–
---	–	–	–	1	–	–

N = first apartment that can be called by the EP

⚠ WARNING

■ Configure and insert the Jumpers with the system SWITCHED OFF. Also every time the configuration is modified the power supply to the system must be switched off and on again, waiting about 1 minute.

A The use of the actuator is necessary if the door lock opening function is desired (see actuator technical sheet).

B To install alternative Handsets to those indicated in the diagrams refer to "HANDSET VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

C The common wire of the pushbutton must be connected to item 346991 or 346992 to which the pushbuttons are connected.

Possible systems

	WITH 346000	WITH 346040
maximum No. of call pushbutton	56	56
maximum No. of expanders	6	6

APARTMENT N

POWER SUPPLY 346040

POWER SUPPLY 346000

(BUS) to other Handsets

(BUS) to other Entrance Panels (max. 4 with 346040)

346991

346992

346992

Light power supply of the existing pushbutton panel

FOR SYSTEM WITH 346000 OR 346040

1 main video Entrance Panel with star wiring, using untwisted or pre-existing cables

ITEM	DESCRIPTION
351200	Audio/video speaker module SFERA
352100	Pushbutton module SFERA
344192	POLYX VIDEO handset
346000	Power supply
346200	Actuator
346830	Video adapter
346870	Line amplifier
L	Staircase light
PE/S	SFERA entrance panel (main)
PL	Door lock release pushbutton
S1	Electric door lock 18 V 4 A impulsive 250 mA holding current (max. 30 Ohm)

NOTE: The entrance panels can also be made up of 12 Vdc camera and interface item 347400 or 12 Vdc camera, interface item 347400 and audio entrance panel.
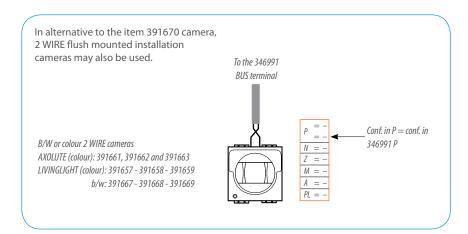
⚠ WARNING

■ Configure and insert the Jumpers with the system SWITCHED OFF. Also every time the configuration is modified the power supply to the system must be switched off and on again, waiting about 1 minute.
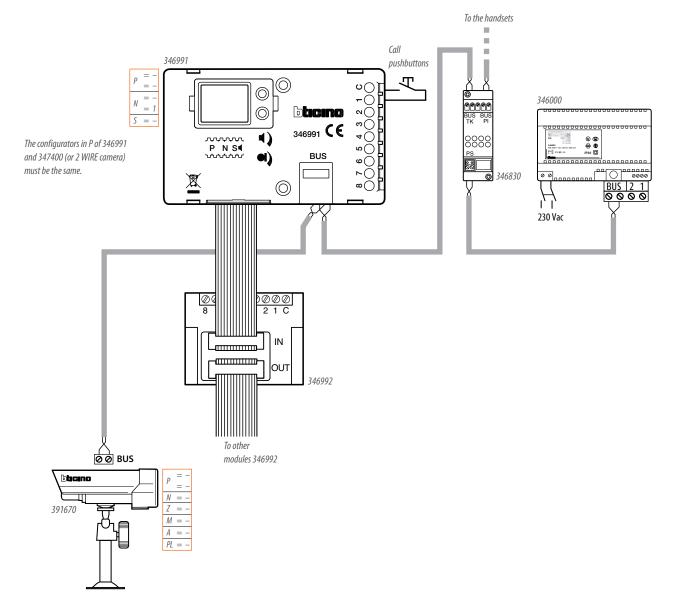
A Use of the actuator is necessary for the staircase light service or generic actuations (see actuator technical sheet).

B For the realization of the Entrance Panel can be used without distinction the AXOLUTE Outdoor, SFERA/SFERA CLASSIC, MINISFERA pushbutton panels or a digital call. For more information consult the "ENTRANCE PANEL VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

C Move to ON the microswitch, on the back of the video handset or audio handset, which ends the line.

D On the riser line after item 346870, it is possible to install up to a max. of 18 handsets (audio handsets or video handsets).

E For wiring the system, use the existing cables or cables with section ≥0.28 mm²

F Item 346870 must be used only if the distance between EP and the last handset is over 50 metres and it must be installed near the 50th metre from the entrance panel.

G To install alternative Handsets to those indicated in the diagrams refer to "HANDSET VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

APARTMENT 18

APARTMENT 9

APARTMENT 2

APARTMENT 1

Total – max. 50 m (without item 346870)
Total – max. 100 m (with item 346870)

max. 50 m

50 m

max. 50 m

346841

346870

351200

352100

352100

PE/S

346000

346830   230 Vac

346200

230 Vac

Video system with universal speaker module, item 346991

ITEM	DESCRIPTION
346000	Power supply
346830	Video adapter
346991	Universal speaker module
346992	Key expansion module
391670	2 WIRE outdoor camera

In alternative to the item 391670 camera, 2 WIRE flush mounted installation cameras may also be used.

B/W or colour 2 WIRE cameras
AXOLUTE (colour): 391661, 391662 and 391663
LIVINGLIGHT (colour): 391657 - 391658 - 391659
b/w: 391667 - 391668 - 391669

To the 346991 BUS terminal

P	= −
	= −
N	= −
Z	= −
M	= −
A	= −
PL	= −

Conf. in P = conf. in 346991 P

To the handsets

346991

P	= −
	= −
N	= −
	= 1
S	= −

The configurators in P of 346991 and 347400 (or 2 WIRE camera) must be the same.

P N S

346991

BUS

Call pushbuttons

BUS TK   BUS PI

PS

346830

346000

230 Vac

BUS 2 1

8   2 1 C

IN

OUT

346992

To other modules 346992

BUS

391670

P	= −
	= −
N	= −
Z	= −
M	= −
A	= −
PL	= −

1 main video Entrance Panel
and 1 riser with floor shunt wiring

bticino

ITEM	DESCRIPTION
351100	SFERA speaker module
352100	SFERA pushbutton module
352400	SFERA WIDE ANGLE N/D camera module
344082	POLYX AUDIO handset
344192	POLYX VIDEO handset
346000	Power supply
346200	Actuator
346830	Video adapter
346841	Floor shunt
L	Staircase light
PE/S	SFERA entrance panel (main)
PS	Door lock release pushbutton
S1	Electric door lock 18 V 4 A impulsive 250 mA holding current (max. 30 Ohm)

CONNECTION LIMITS

1 video EP, max. 2 risers on Handset BUS, item 346830
2 video EPs, max. 1 riser on Handset BUS, item 346830

⚠ **WARNING**

■ Configure and insert the Jumpers with the system SWITCHED OFF. Also every time the configuration is modified the power supply to the system must be switched off and on again, waiting about 1 minute.

A Use of the actuator is necessary for the staircase light service or generic actuations (see actuator technical sheet).

B For the realization of the Entrance Panel can be used without distinction the AXOLUTE Outdoor, SFERA/SFERA CLASSIC, MINISFERA pushbutton panels or a digital call both as main or secondary EP.
For more information consult the "ENTRANCE PANEL VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

C Move to ON the microswitch, on the back of the video handset or audio handset, which ends the line.

D To install alternative Handsets to those indicated in the diagrams refer to "HANDSET VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

1 main video Entrance Panel and 2 risers with floor shunt wiring

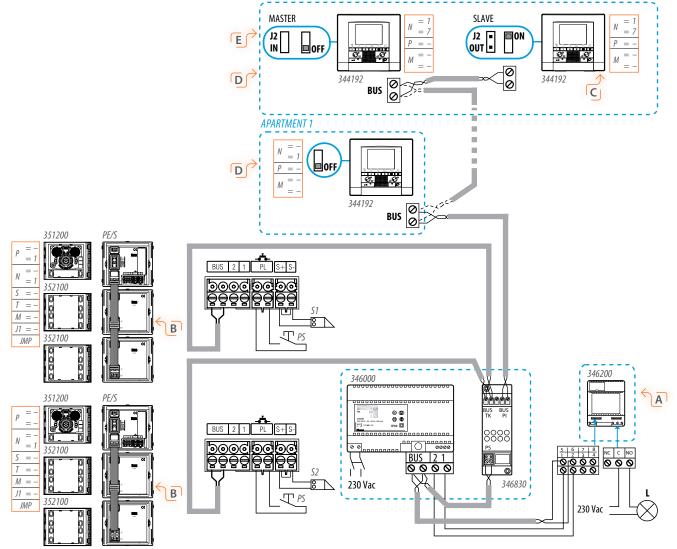| ITEM	DESCRIPTION
351300	SFERA WIDE ANGLE A/V module
352500	SFERA display module
344704	SWING audio handset
344192	POLYX VIDEO handset
346000	Power supply
346200	Actuator
346830	Video adapter
3499	Line terminator
L	Staircase light
PE/S	SFERA entrance panel (main)
PS	Door lock release pushbutton
S1	Electric door lock 18 V 4 A impulsive 250 mA holding current (max. 30 Ohm)

⚠️ WARNING

■ Configure and insert the Jumpers with the system SWITCHED OFF. Also every time the configuration is modified the power supply to the system must be switched off and on again, waiting about 1 minute.
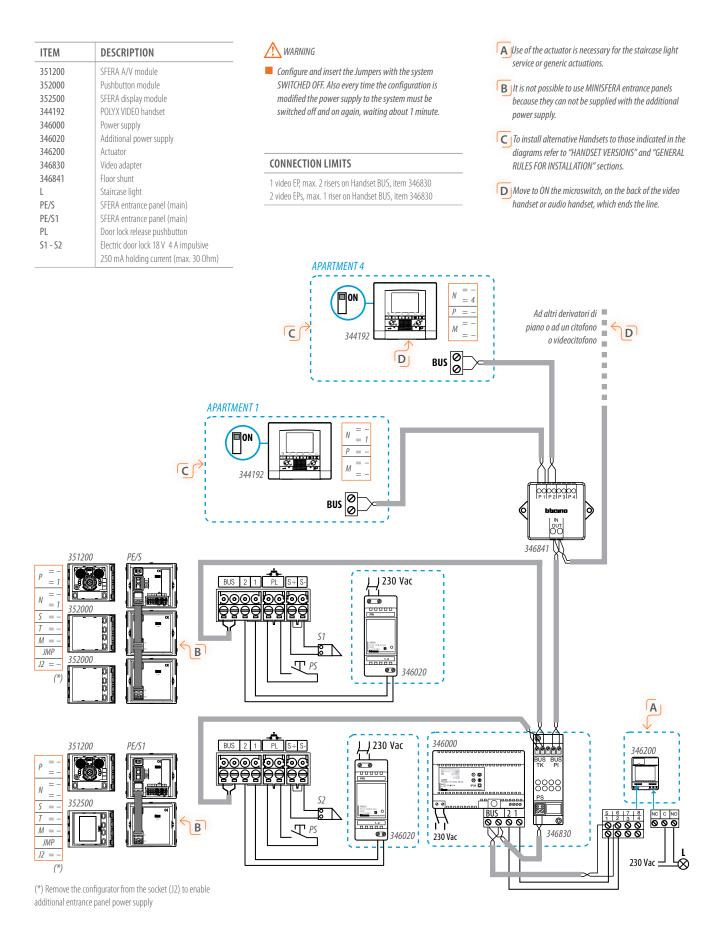
CONNECTION LIMITS

1 video EP, max. 2 risers on Handset BUS, item 346830
2 video EPs, max. 1 riser on Handset BUS, item 346830

NOTE: The entrance panels can also be made up of 12 Vdc camera and interface item 347400 or 12 Vdc camera, interface item 347400 and audio entrance panel.

A Use of the actuator is necessary for the staircase light service or generic actuations (see actuator technical sheet).

B For the realization of the Entrance Panel can be used without distinction the AXOLUTE Outdoor, SFERA/SFERA CLASSIC, MINISFERA pushbutton panels or a digital call. For more information consult the "ENTRANCE PANEL VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

C Move to ON the microswitch, on the back of the video handset or audio handset, which ends the line.

D To install alternative Handsets to those indicated in the diagrams refer to "HANDSET VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

2 main video Entrance Panels and 1 riser with IN-OUT wiring

bticino

ITEM	DESCRIPTION
351200	SFERA A/V module
352100	SFERA pushbutton module
344192	POLYX VIDEO handset
346000	Power supply
346200	Actuator
346830	Video adapter
L	Staircase light
PE/S	SFERA entrance panel (main)
PS	Door lock release pushbutton
S1 - S2	Electric door lock 18 V 4 A impulsive
	250 mA holding current (max. 30 Ohm)

CONNECTION LIMITS

1 video EP, max. 2 risers on Handset BUS, item 346830
2 video EPs, max. 1 riser on Handset BUS, item 346830

⚠ *WARNING*

■ *Configure and insert the Jumpers with the system SWITCHED OFF. Also every time the configuration is modified the power supply to the system must be switched off and on again, waiting about 1 minute.*

A *Use of the actuator is optional for the staircase light service or generic actuations.*

B *For the realization of the Entrance Panel can be used without distinction the AXOLUTE Outdoor, SFERA/SFERA CLASSIC, MINISFERA pushbutton panels or a digital call both as main or secondary EP.*
For more information consult the "ENTRANCE PANEL VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

C *Move to ON the microswitch, on the back of the video handset or audio handset, which ends the line.*

D *To install alternative Handsets to those indicated in the diagrams refer to "HANDSET VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.*

E *The installation inside the apartment of PIVOT, SWING POLYX and AXOLUTE audio/video handsets is completed using the MASTER-SLAVE function. When a call is received, the MASTER unit switches on and rings, while the SLAVE unit only rings. If the call is answered from the SLAVE unit, the master unit switches off again, while the monitor of the SLAVE itself switches on. When SWING and SPRINT handsets are used, only one audio/video handset and up two audio handsets can be installed.*

APARTMENT 17

APARTMENT 1

2 main video EPs with additional power supply

ITEM	DESCRIPTION
351200	SFERA A/V module
352000	Pushbutton module
352500	SFERA display module
344192	POLYX VIDEO handset
346000	Power supply
346020	Additional power supply
346200	Actuator
346830	Video adapter
346841	Floor shunt
L	Staircase light
PE/S	SFERA entrance panel (main)
PE/S1	SFERA entrance panel (main)
PL	Door lock release pushbutton
S1 - S2	Electric door lock 18 V 4 A impulsive
	250 mA holding current (max. 30 Ohm)

⚠ *WARNING*

■ *Configure and insert the Jumpers with the system SWITCHED OFF. Also every time the configuration is modified the power supply to the system must be switched off and on again, waiting about 1 minute.*

CONNECTION LIMITS

1 video EP, max. 2 risers on Handset BUS, item 346830
2 video EPs, max. 1 riser on Handset BUS, item 346830

A *Use of the actuator is necessary for the staircase light service or generic actuations.*

B *It is not possible to use MINISFERA entrance panels because they can not be supplied with the additional power supply.*

C *To install alternative Handsets to those indicated in the diagrams refer to "HANDSET VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.*
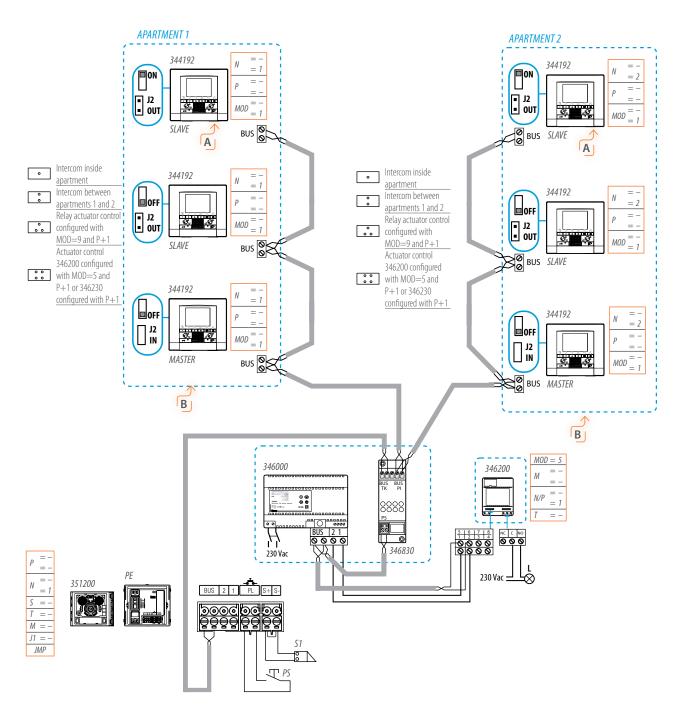
D *Move to ON the microswitch, on the back of the video handset or audio handset, which ends the line.*

Ad altri derivatori di piano o ad un citofono o videocitofono

(*) Remove the configurator from the socket (J2) to enable additional entrance panel power supply

One-family system with 1 video Entrance Panel and 5 Handsets in parallel and intercommunicating

ITEM	DESCRIPTION
351300	WIDE ANGLE A/V module
344192	POLYX VIDEO handset
346000	Power supply
346200	Actuator
346830	Video adapter
L	Staircase light
PE/S	SFERA entrance panel (main)
PS	Door lock release pushbutton
S1	Electric door lock 18 V 4 A impulsive 250 mA holding current (max. 30 Ohm)

⚠ WARNING

- Configure the handsets starting from N = 1
- Configure and insert the Jumpers with the system SWITCHED OFF. Also every time the configuration is modified the power supply to the system must be switched off and on again, waiting about 1 minute.
- The intercom function is operating even with a lack of Entrance Panel connection.

A Use of the actuator is necessary for the staircase light service or generic actuations.

B For the Entrance Panel, all the pushbutton panels of SFERA/SFERA CLASSIC or MINISFERA can be used. For more information consult the "ENTRANCE PANEL VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

C Move to ON the microswitch, on the back of the video handset or audio handset, which ends the line.

D Fit a "9" configurator to be inserted in S on the speaker module to make the general call.

E To install alternative Handsets to those indicated in the diagrams refer to "HANDSET VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

Two-family system, 1 EP and 3 Handsets for apartment with "internal intercom and between the apartments" function

ITEM	DESCRIPTION
351200	A/V SFERA
344192	POLYX VIDEO handset
346000	Power supply
346830	Video adapter
346200	Staircase light actuator
PE	SFERA entrance panel (main)
PS	Door lock release pushbutton
S1	Electric door lock 18 V 4 A impulsive 250 mA holding current (max. 30 Ohm)

⚠ WARNING

■ Configure and insert the Jumpers with the system SWITCHED OFF. Also every time the configuration is modified the power supply to the system must be switched off and on again, waiting about 1 minute.

■ It is possible to install a maximum of 3 POLYX and AXOLUTE video handsets for apartment with MASTER-SLAVE function. At the arrival of the call the MASTER rings and switches ON while the SLAVE rings. Answering from a SLAVE, the MASTER switches OFF and the monitor of the SLAVE in use switches ON.

A Move to ON the microswitch, on the back of the video handset or audio handset, which ends the line.

B To install alternative Handsets to those indicated in the diagrams refer to "HANDSET VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.
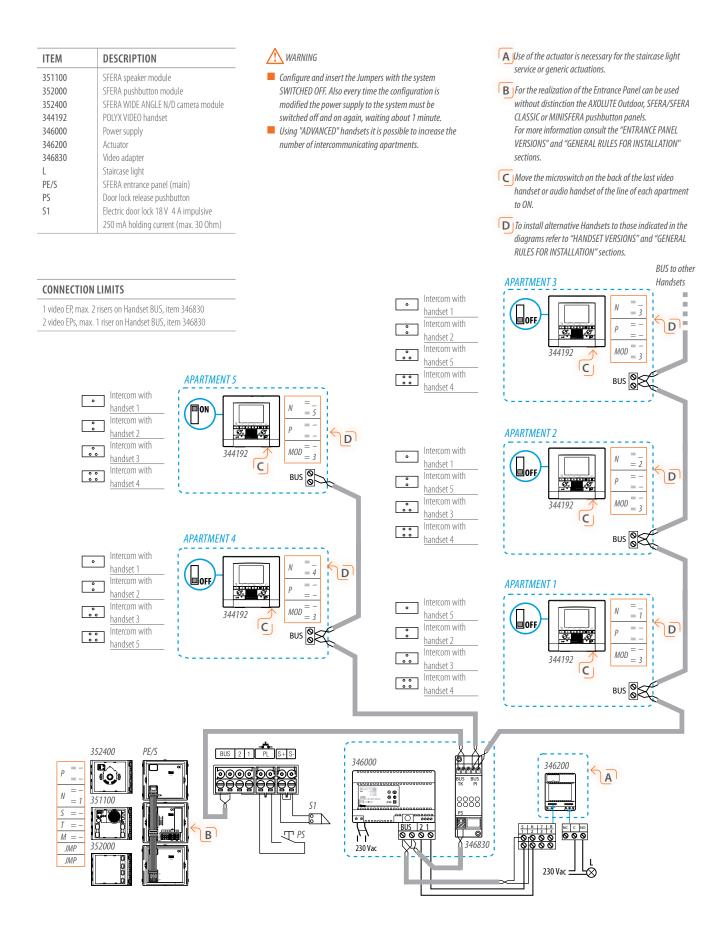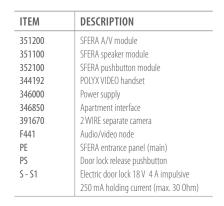
Intercom in apartment without item 346850

bticino

ITEM	DESCRIPTION
351200	SFERA A/V module
352000	SFERA pushbutton module
344704	SWING audio handset
344824	SWING video handset
346000	Power supply
346200	Actuator
346830	Video adapter
L	Staircase light
PE/S	SFERA entrance panel (main)
PS	Door lock release pushbutton
S1	Electric door lock 18 V 4 A impulsive
	250 mA holding current (max. 30 Ohm)

Configure the system starting from N = 3.

The apartment intercom connection will be interrupted when a call is received from an EP.
The system only manages one intercom call at the time.

APARTMENT 5

APARTMENT 3

APARTMENT 4

This must be configured with N ≥ 3

Multi-family system with 1 main video EP, 2 risers and intercom among apartments

ITEM	DESCRIPTION
351100	SFERA speaker module
352000	SFERA pushbutton module
352400	SFERA WIDE ANGLE N/D camera module
344192	POLYX VIDEO handset
346000	Power supply
346200	Actuator
346830	Video adapter
L	Staircase light
PE/S	SFERA entrance panel (main)
PS	Door lock release pushbutton
S1	Electric door lock 18 V 4 A impulsive
	250 mA holding current (max. 30 Ohm)

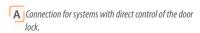⚠ WARNING

■ Configure and insert the Jumpers with the system SWITCHED OFF. Also every time the configuration is modified the power supply to the system must be switched off and on again, waiting about 1 minute.

■ Using "ADVANCED" handsets it is possible to increase the number of intercommunicating apartments.

A Use of the actuator is necessary for the staircase light service or generic actuations.

B For the realization of the Entrance Panel can be used without distinction the AXOLUTE Outdoor, SFERA/SFERA CLASSIC or MINISFERA pushbutton panels.
For more information consult the "ENTRANCE PANEL VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

C Move the microswitch on the back of the last video handset or audio handset of the line of each apartment to ON.

D To install alternative Handsets to those indicated in the diagrams refer to "HANDSET VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

CONNECTION LIMITS

1 video EP, max. 2 risers on Handset BUS, item 346830
2 video EPs, max. 1 riser on Handset BUS, item 346830

Multi-family system with 2+2 Entrance Panels and apartment interfaces
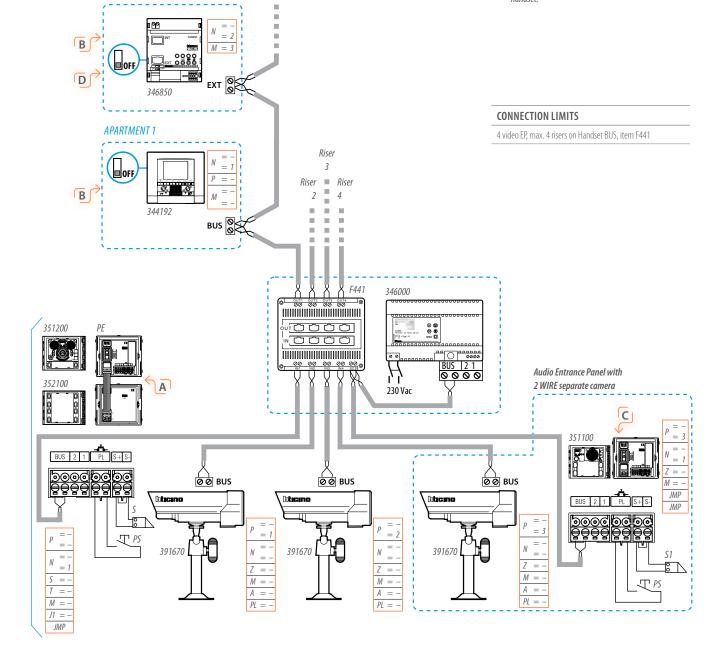
ITEM	DESCRIPTION
351200	SFERA A/V module
351100	SFERA speaker module
352100	SFERA pushbutton module
344192	POLYX VIDEO handset
346000	Power supply
346850	Apartment interface
391670	2 WIRE separate camera
F441	Audio/video node
PE	SFERA entrance panel (main)
PS	Door lock release pushbutton
S - S1	Electric door lock 18 V 4 A impulsive 250 mA holding current (max. 30 Ohm)

⚠ WARNING

■ Configure and insert the Jumpers with the system SWITCHED OFF. Also every time the configuration is modified the power supply to the system must be switched off and on again, waiting about 1 minute.

A For the Entrance Panel, all the pushbutton panels of SFERA/SFERA CLASSIC or MINISFERA can be used. For more information consult the "ENTRANCE PANEL VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

B To install alternative Handsets to those indicated in the diagrams refer to "HANDSET VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

C The audio Entrance Panels associated to the cameras must belong to the SFERA/SFERA CLASSIC, LINEA 2000, LINEA 2000 METAL series and 346991 and be connected directly to the SCS terminal of the audio-video node item F441.

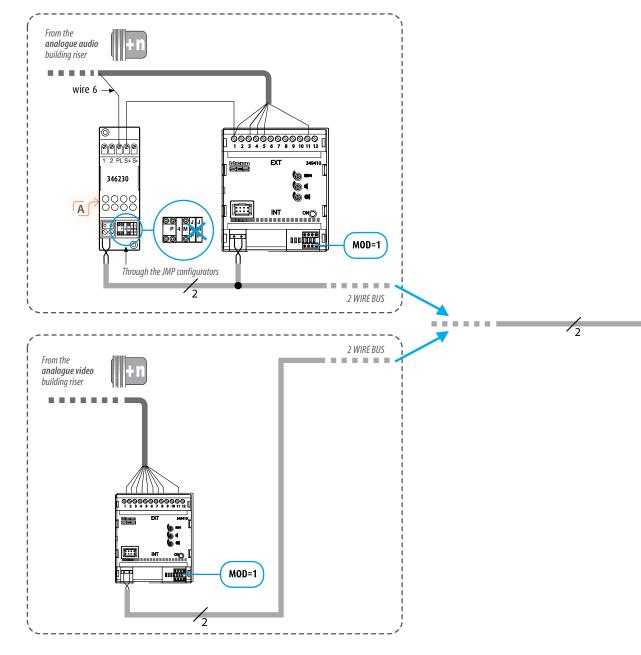**D** The apartment interface is wired as a normal video handset.

CONNECTION LIMITS

4 video EP, max. 4 risers on Handset BUS, item F441

APARTMENT 2

APARTMENT 1

To other Handsets / apartment interfaces

Riser 3
Riser 2
Riser 4

Audio Entrance Panel with 2 WIRE separate camera

System in apartment with 2 WIRE analogue interface, item 349410

ITEM	DESCRIPTION
349410	2 WIRE/analogue interface
351200	SFERA A/V module
344163	POLYX MEMORY DISPLAY video handset
349311	VIDEO DISPLAY video handset
F441	Audio/video node
346000	Power supply
391670	2 WIRE outdoor camera
PS	Door lock release pushbutton

A Connection for systems with direct control of the door lock.

CLAMPS 349410	VIDEO	AUDIO
1	1	1 and S+ (of the actuator)
2	2	–
3	3	3
4	4	4
5	5	5
6	6	A
7	7	–
8	8	–
9	–	–
10	–	–
11	14	14 (optional)
12	–	–

From the **analogue audio building riser**

wire 6

346230

1 2 PL S+ S-

A

P 4 M J J

Through the JMP configurators

EXT 349410

INT ON

MOD=1

2

2 WIRE BUS

2 WIRE BUS

From the **analogue video building riser**

EXT 349410

INT ON

MOD=1

2

2

![BTicino logo]
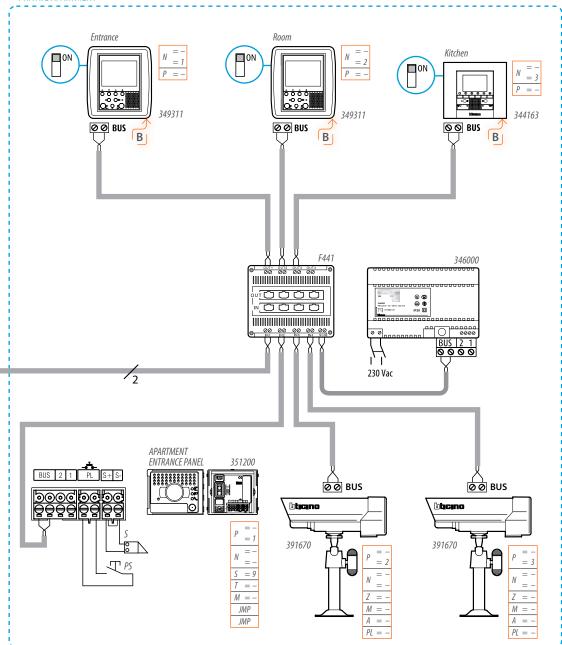
⚠ WARNING

■ Activations on the analogue side are not possible.
■ As far as wiring and system limits, the item 349410 interface must be considered the same as a 2 WIRE EP.
■ Configure and insert the Jumpers with the system SWITCHED OFF. Also every time the configuration is modified the power supply to the system must be switched off and on again, waiting about 1 minute.

[B] Move the microswitch on the back of the last video handset or audio handset of the line or riser of each apartment to ON.

PRIVATE APARTMENT

Entrance

N	= –
	= 1
P	= –

349311

BUS [B]

Room

N	= –
	= 2
P	= –

349311

BUS [B]

Kitchen

N	= –
	= 3
P	= –

344163

BUS [B]

F441

346000

230 Vac

BUS 2 1

2

APARTMENT ENTRANCE PANEL   *351200*

BUS 2 1 PL S+ S-

S

PS

P	= –
	= 1
N	= –
	= –
S	= 9
T	= –
M	= –
JMP	
JMP	

BUS

391670

P	= –
	= 2
N	= –
	= –
Z	= –
M	= –
A	= –
PL	= –

BUS

391670

P	= –
	= 3
N	= –
	= –
Z	= –
M	= –
A	= –
PL	= –
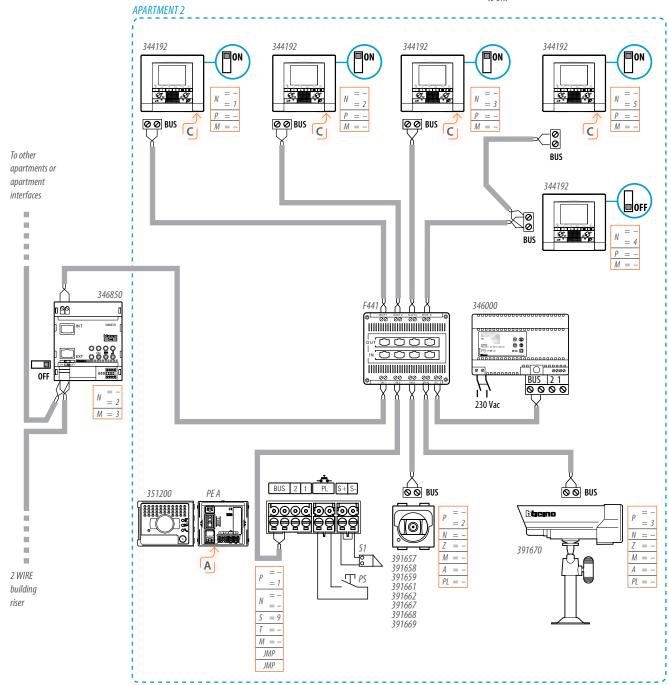
System in apartment with apartment interface

| ITEM	DESCRIPTION
351200	SFERA A/V module
344192	POLYX VIDEO handset
346000	Power supply
346850	Apartment interface
F441	Audio/video node
PEA	Apartment Entrance Panel
PS	Door lock release pushbutton
S1	Electric door lock 18 V 4 A impulsive
	250 mA holding current (max. 30 Ohm)

⚠ WARNING

■ Configure the apartment Entrance Panels starting from $P = 1$.
■ Configure the apartment Handsets starting from N=1
■ As for one-family systems, all Handsets must be configured as MASTER. The Handset configured with $N = 1$ will ring and switch on, while all the others will only ring. If the call is answered from a Handset with the monitor switched off, the monitor of the handset configured with $N = 1$ will switch off, while the monitor of the Handset the call is answered from will switch on.

A For the realization of the Entrance Panel can be used without distinction the AXOLUTE Outdoor, SFERA/SFERA CLASSIC, MINISFERA, LINEA 2000 or LINEA 2000 METAL pushbutton panels.
For more information consult the "ENTRANCE PANEL VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

B To install alternative Handsets to those indicated in the diagrams refer to "HANDSET VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

C Move the microswitch of the device which ends the line to ON.

System expansion line

ITEM	DESCRIPTION
351200	SFERA A/V module
346000	Power supply
346830	Video adapter
346851	System expansion module
PE	Entrance panel
PS	Door lock release pushbutton
S1	Electric door lock 18 V 4 A impulsive
	250 mA holding current (max. 30 Ohm)
F441	Audio/video node

⚠ WARNING
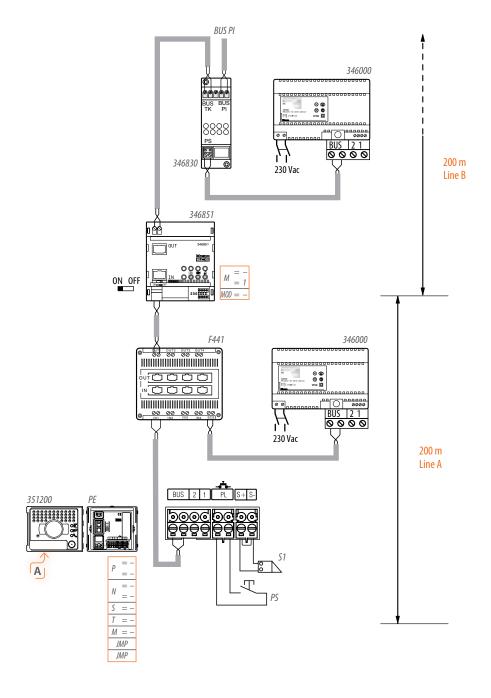
■ After the system expansion module item 346851, 200 m of line B are available (from the interface item 346851 to the furthest Handset).
A maximum of 3 interfaces item 346850 and item 346851 can be used in cascade. Only 2 of them will reproduce the signal.
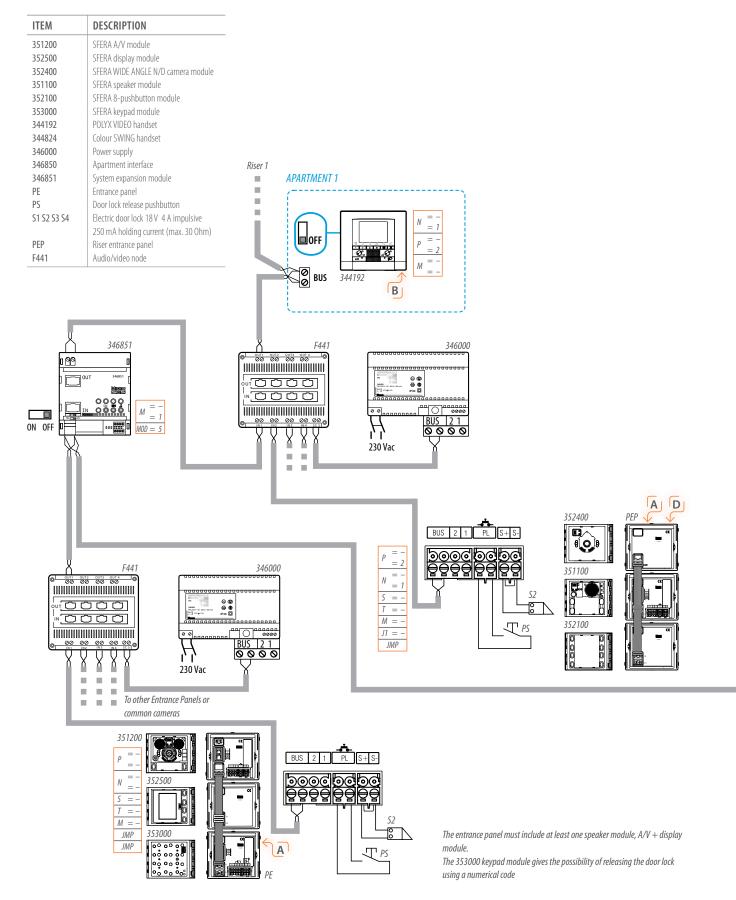
A For the realization of the Entrance Panel can be used without distinction the SFERA/SFERA CLASSIC or MINISFERA pushbutton panels.
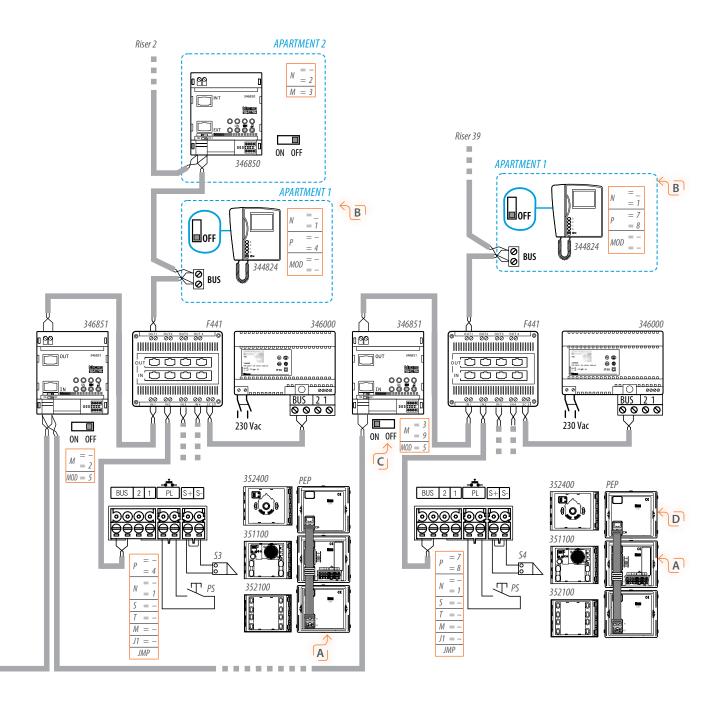For more information consult the "ENTRANCE PANEL VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

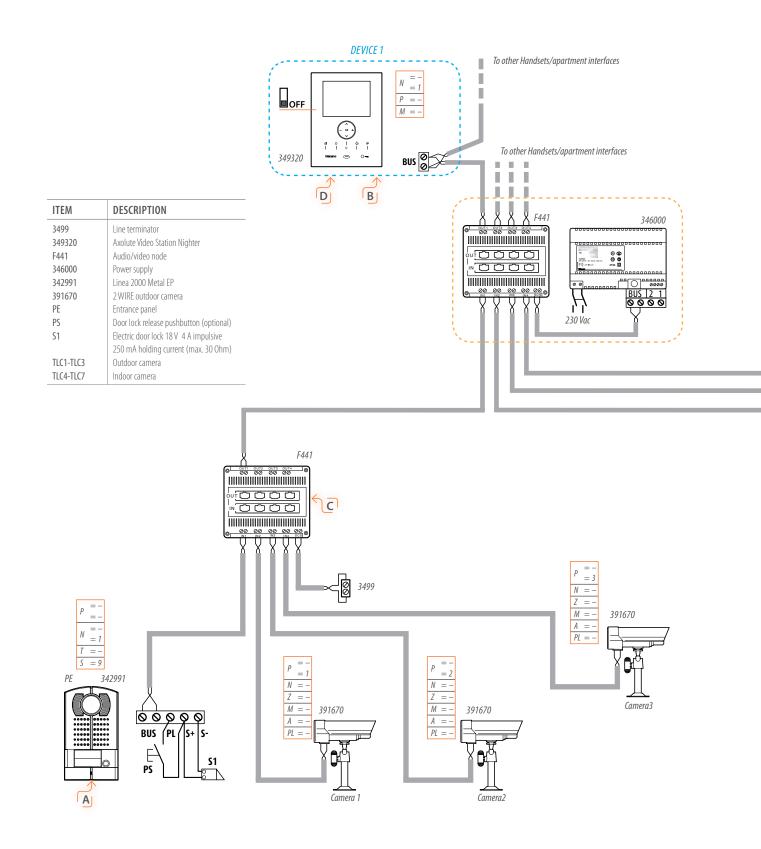# Multi-family system with 39 independent audio risers

ITEM	DESCRIPTION
351200	SFERA A/V module
352500	SFERA display module
352400	SFERA WIDE ANGLE N/D camera module
351100	SFERA speaker module
352100	SFERA 8-pushbutton module
353000	SFERA keypad module
344192	POLYX VIDEO handset
344824	Colour SWING handset
346000	Power supply
346850	Apartment interface
346851	System expansion module
PE	Entrance panel
PS	Door lock release pushbutton
S1 S2 S3 S4	Electric door lock 18 V 4 A impulsive
	250 mA holding current (max. 30 Ohm)
PEP	Riser entrance panel
F441	Audio/video node

Riser 1

APARTMENT 1

OFF

BUS

344192

$N \begin{array}{l} = - \\ = 1 \end{array}$

$P \begin{array}{l} = - \\ = 2 \end{array}$

$M \begin{array}{l} = - \\ = - \end{array}$

B

346851

OUT
346851
IN

ON OFF

$M \begin{array}{l} = - \\ = 1 \end{array}$
$MOD = 5$

F441

OUT1 OUT2 OUT3 OUT 4

OUT
IN

IN1 IN2 IN3 IN4 SC 5

346000

IP30

BUS 2 1

230 Vac

A D

352400

PEP

351100

352100

BUS 2 1 PL S+ S-

$P \begin{array}{l} = - \\ = 2 \end{array}$
$N \begin{array}{l} = - \\ = 1 \end{array}$
$S = -$
$T = -$
$M = -$
$J1 = -$
JMP

S2

PS

F441

OUT1 OUT2 OUT3 OUT 4

OUT
IN

IN1 IN2 IN3 IN4 SC 5

346000

IP30

BUS 2 1

230 Vac

To other Entrance Panels or
common cameras

351200

$P \begin{array}{l} = - \\ = - \end{array}$
$N \begin{array}{l} = - \\ = - \end{array}$
$S = -$
$T = -$
$M = -$
JMP
JMP

352500

353000

A

PE

BUS 2 1 PL S+ S-

S2

PS

The entrance panel must include at least one speaker module, A/V + display module.
The 353000 keypad module gives the possibility of releasing the door lock using a numerical code

Riser 2   APARTMENT 2

INT   346850

$N \begin{array}{l} = - \\ = 2 \end{array}$
$M = 3$

EXT

ON   OFF

346850

APARTMENT 1

OFF

344824

$N \begin{array}{l} = - \\ = 1 \end{array}$
$P \begin{array}{l} = - \\ = 4 \end{array}$
$MOD \begin{array}{l} = - \\ = - \end{array}$

BUS

B

Riser 39

APARTMENT 1

OFF

344824

B

$N \begin{array}{l} = - \\ = 1 \end{array}$
$P \begin{array}{l} = 7 \\ = 8 \end{array}$
$MOD \begin{array}{l} = - \\ = - \end{array}$

BUS

346851   F441   346000

OUT   346851

OUT1 OUT2 OUT3 OUT4

OUT

IN

IN

IP30

ON OFF

IN1 IN2 IN3 IN4 SC S

BUS 2 1

230 Vac

ON OFF

$M \begin{array}{l} = - \\ = 2 \end{array}$
$MOD = 5$

346851   F441   346000

OUT   346851

OUT1 OUT2 OUT3 OUT4

OUT

IN

IN

IP30

ON OFF

IN1 IN2 IN3 IN4 SC S

BUS 2 1

230 Vac

ON OFF

$M \begin{array}{l} = 3 \\ = 9 \end{array}$
$MOD = 5$

C

352400   PEP

BUS 2 1   PL   S+ S-

351100

S3

352100

PS

$P \begin{array}{l} = - \\ = 4 \end{array}$
$N \begin{array}{l} = - \\ = 1 \end{array}$
$S = -$
$T = -$
$M = -$
$J1 = -$
JMP

A

352400   PEP

BUS 2 1   PL   S+ S-

351100

S4

352100

PS

$P \begin{array}{l} = 7 \\ = 8 \end{array}$
$N \begin{array}{l} = - \\ = 1 \end{array}$
$S = -$
$T = -$
$M = -$
$J1 = -$
JMP

D

A

⚠ WARNING

■ As far as buildings entrance panels are concerned, the address of the riser's handsets will be equal to (riser number x 100) + handset No.
Ex.: For handset 15 of riser 9 equals the building EP address will be: 9 x 100 + 15 = 915.
■ Configure the Handsets starting from N = 1
■ A maximum of 3 interfaces item 346850 and item 346851 can be used in cascade. Only 2 of them will reproduce the signal.

A   For the realization of the riser Entrance Panel can be used without distinction the AXOLUTE Outdoor, SFERA or MINISFERA pushbutton panels.
For more information consult the "ENTRANCE PANEL VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

B   To install alternative Handsets to those indicated in the diagrams refer to "HANDSET VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

C   Move the microswitch of the interface item 346851 which ends the line to ON.

D   Configure the Handsets of consecutive risers leaving one free address.
Riser 1 : P = 3   P = 4
Riser 2 : P = 6   ....

One-family system with max. 16 cameras or Entrance Panels

DEVICE 1

OFF

349320

N	= − = 1
P	= −
M	= −

BUS

D   B

To other Handsets/apartment interfaces

To other Handsets/apartment interfaces

F441

OUT1 OUT2 OUT3 OUT4
OUT
IN
IN1 IN2 IN3 IN4 SCS

346000

BUS 2 1

230 Vac

ITEM	DESCRIPTION
3499	Line terminator
349320	Axolute Video Station Nighter
F441	Audio/video node
346000	Power supply
342991	Linea 2000 Metal EP
391670	2 WIRE outdoor camera
PE	Entrance panel
PS	Door lock release pushbutton (optional)
S1	Electric door lock 18 V 4 A impulsive
	250 mA holding current (max. 30 Ohm)
TLC1-TLC3	Outdoor camera
TLC4-TLC7	Indoor camera

F441

OUT1 OUT2 OUT3 OUT4
OUT
IN
IN1 IN2 IN3 IN4 SCS

C

3499

P	= − = 3
N	= −
Z	= −
M	= −
A	= −
PL	= −

391670

Camera3

P	= − = −
N	= − = 1
T	= −
S	= 9

PE   342991

BUS PL S+ S-

PS   S1

A

P	= − = 1
N	= −
Z	= −
M	= −
A	= −
PL	= −

391670

Camera 1

P	= − = 2
N	= −
Z	= −
M	= −
A	= −
PL	= −

391670

Camera2

⚠ WARNING

When the nodes are used in cascade, the distances of the various lines are halved (max. 100 m with cable item 336904).

A For the Entrance Panel, all the pushbutton panels of the 2 WIRE range can be used.

B All the advanced video handsets of the 2 WIRE range may be installed.

C Only use one output for each node and allow for a terminator item 3499 to be connected to the SCS clamp.

D Configure advanced handsets using a PC and Software supplied.

E By entering OFF in the first seats of the P configurators, the microphone of the 2 wire cameras is excluded (this function is only possible for cameras 0 to 9. The microphone cannot be excluded on the other cameras).

F441 F441 F441

C C C

3499 3499 3499

To other Entrance Panels or other common cameras (configured with P= 8 – P= 11)

To other Entrance Panels or other common cameras (configured with P= 12 – P= 15)

Camera 4   Camera 5   Camera 6   Camera 7

P	= –
	= 4
N	= –
Z	= –
M	= –
A	= –
PL	= –

E

P	= –
	= 5
N	= –
Z	= –
M	= –
A	= –
PL	= –

E

P	= –
	= 6
N	= –
Z	= –
M	= –
A	= –
PL	= –

E

P	= OFF
	= 7
N	= –
Z	= –
M	= –
A	= –
PL	= –

E

COLOUR INDOOR CAMERAS AVAILABLE IN THE FOLLOWING FINISHES:

391658	LIVINGLIGHT – WHITE
391659	LIVINGLIGHT TECH
391657	LIVINGLIGHT – ANTHRACITE
391663	AXOLUTE – WHITE
391661	AXOLUTE TECH
391662	AXOLUTE – ANTHRACITE

System with 346851 to double the Entrance Panel line max. 39 indipendent risers and apartment interfaces

ITEM	DESCRIPTION
351200	SFERA A/V module
352500	SFERA display module
352400	SFERA WIDE ANGLE N/D camera module
352100	SFERA pushbutton module
351100	SFERA speaker module
344192	POLYX VIDEO handset
346000	Power supply
346830	Video adapter
346850	Apartment interface
346851	System expansion module
PE	Entrance panel
PS	Door lock release pushbutton
S1-S2-S3	Electric door lock 18 V 4 A impulsive
	250 mA holding current (max. 30 Ohm)
PEP	Riser entrance panel
F441	Audio/video node

The Entrance Panel must be made with speaker module/A/V + display module.

⚠ WARNING

■ As far as buildings entrance panels are concerned, the address of the riser's handsets will be equal to (riser number x 100) + handset No.
Ex.: For handset 15 of riser 9 equals the building EP address will be: 9 x 100 + 15 = 915.

■ Configure the riser Handsets starting from N = 1

■ A maximum of 3 interfaces item 346850 and item 346851 can be used in cascade. Only 2 of them will reproduce the signal.

A For the realization of the riser Entrance Panel can be used without distinction the AXOLUTE Outdoor, SFERA/ SFERA CLASSIC or MINISFERA pushbutton panels. For more information consult the "ENTRANCE PANEL VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

B To install alternative Handsets to those indicated in the diagrams refer to "HANDSET VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

C Configure the handsets of consecutive risers leaving one free address.
Riser 1 : P = 2   P = 3   P = 4
Riser 2 : P = 6   ....

APARTMENT 1

Riser 2

344192

OFF

N	= –
	= 1
P	= 4
M	= –
	= –

BUS

B

APARTMENT 2

346850

INT   346850

EXT

ON OFF

N	= –
	= 2
M	= 3

EXT

F441   346000

OUT1 OUT2 OUT3 OUT4

OUT

IN

IN1 IN2 IN3 IN4 SCS

230 Vac

BUS 2 1

346851

M	= –
	= 2
MOD	= 5

OUT   346851

IN

ON OFF

BUS 2 1   PL   S+ S-

S3

PS

To other risers

352400

351100

352100

A **C**

P	= –
	= 4
N	= –
	= –
S	= –
T	= –
M	= –
J1	= –
JMP	

System with max. 39 independent risers with riser extension (100 video Handsets)

ITEM	DESCRIPTION
351200	SFERA A/V module
352500	SFERA display module
352400	SFERA WIDE ANGLE N/D camera module
351100	SFERA speaker module
352100	SFERA pushbutton module
344192	POLYX VIDEO handset
346000	Power supply
346830	Video adapter
346851	System expansion module
PE	Entrance panel
PEP	Riser entrance panel
F441	Audio/video node
S1 - S2 - S3	Electric door lock 18 V 4 A impulsive
	250 mA holding current (max. 30 Ohm)

Riser 1

APARTMENT 51

$N = 5$
$= 1$
$P = 2$
$M = -$
$= -$

344192

B

BUS

Max. 50 Handsets on the 4 node outputs

$M = -$
$= 1$
$MOD = -$

OUT   346851

IN

ON

346851

F441   *346000*

OUT

IN

BUS 2 1

230 Vac

D

× × ×

APARTMENT 1

$N = 1$
$= 1$
$P = 2$
$M = -$
$= -$

OFF

344192

B

BUS

Max. 50 Handsets on the 4 node outputs

F441   *346000*

OUT

IN

BUS 2 1

230 Vac

$M = -$
$= 1$
$MOD = 5$

OUT   346851

IN

OFF

346851

BUS 2 1   PL   S+ S-

S2

PS

352400 *PEP*

351100

352100

$P = -$
$= 2$
$N = -$
$= 1$
$S = -$
$T = -$
$M = -$
$J1 = -$
JMP

C

A

$P = -$
$= -$
$N = -$
$= -$
$S = -$
$T = -$
$M = -$
JMP
JMP

A

351200

PE

352500

BUS 2 1   PL   S+ S-

BUS   BUS
TK   PI

PS

S1

PS

346830

346000

230 Vac

BUS 2 1

The Entrance Panel must be made with digital call modules.

Max. 50 Handsets on the 4 node outputs

Max. 50 Handsets on the 4 node outputs

APARTMENT 51

OFF

344192

N	= 5
	= 1
P	= 4
M	= –
	= –

B

BUS

346851

M	= –
	= 2
MOD	= –

OUT 346851

IN

ON

F441

OUT1 OUT2 OUT3 OUT4

OUT

IN

IN1 IN2 IN3 IN4 SCS

D

346000

PRI
PRI 230 V – 50 –60 Hz 240 mA
BUS 27V 0.6A IP30

BUS 2 1

230 Vac

APARTMENT 1

OFF

344192

N	= –
	= 1
P	= 4
M	= –
	= –

B

BUS

F441

OUT1 OUT2 OUT3 OUT4

OUT

IN

IN1 IN2 IN3 IN4 SCS

346000

PRI
PRI 230 V – 50 –60 Hz 240 mA
BUS 27V 0.6A IP30

BUS 2 1

230 Vac

M	= –
	= 2
MOD	= 5

OUT 346851

IN

OFF

346851

BUS 2 1 PL S+ S-

S3

PS

To other risers

352400

351100

352100

PEP

A

C

JMP

P	= –
	= 4
N	= –
	= 1
S	= –
T	= –
M	= –
J1	= –

⚠ WARNING

■ As far as buildings entrance panels are concerned, the address of the riser's handsets will be equal to (riser number x 100) + handset No.
Ex.: For handset 15 of riser 9 equals the building EP address will be: 9 x 100 + 15 = 915.

■ Configure the riser Handsets starting from N = 1

■ A maximum of 3 interfaces item 346850 and item 346851 can be used in cascade. Only 2 of them will reproduce the signal.

A For the realization of the Entrance Panel can be used without distinction the AXOLUTE Outdoor, SFERA/SFERA CLASSIC or MINISFERA pushbutton panels. For more information consult the "ENTRANCE PANEL VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

B To install alternative Handsets to those indicated in the diagrams refer to "HANDSET VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

C Configure the Entrance Panels of consecutive risers leaving one free address
Riser 1 : P = 2   P = 3   P = 4
Riser 2 : P = 6
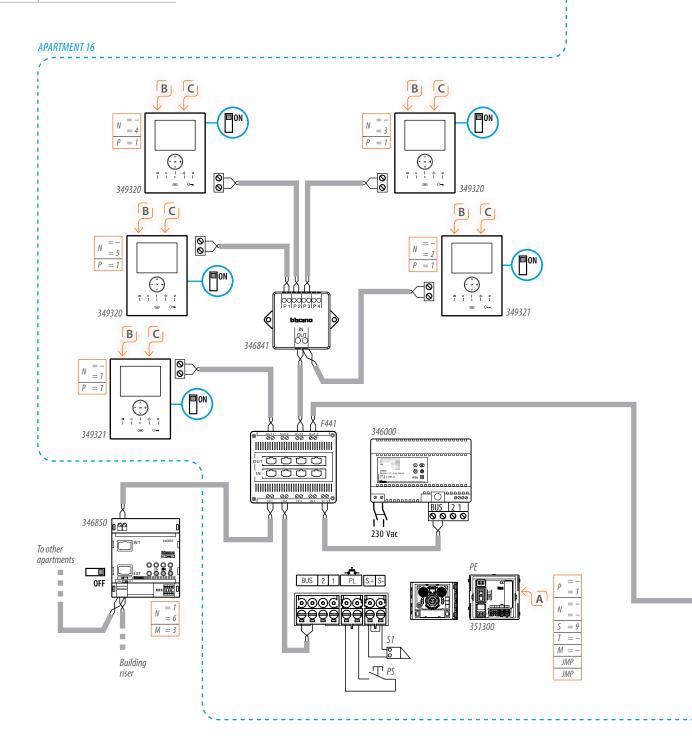
D If the EP is used in "Line Expansion" mode (346851 with MOD-0), only one input of the A/V node may be used.

Handset extension in apartment - max. 10 Handsets
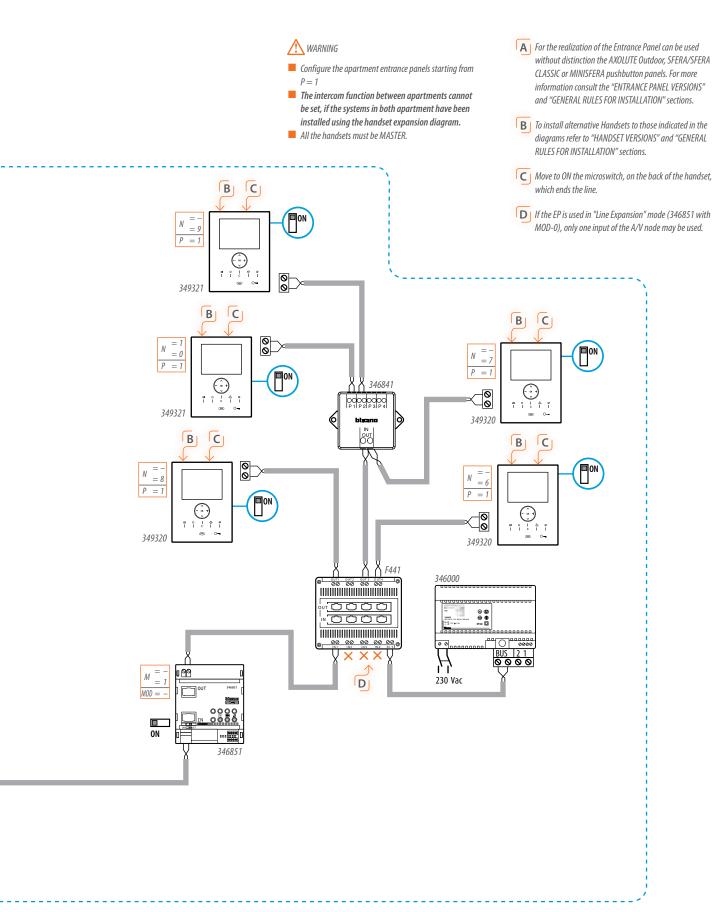
ITEM	DESCRIPTION
351300	SFERA WIDE ANGLE A/V module
346000	Power supply
346841	Floor shunt
346850	Apartment interface
349320	AXOLUTE VIDEO STATION NIGHTER
349321	AXOLUTE VIDEO STATION WHICE
F441	Audio/video node
S1	Electric door lock 18 V 4 A impulsive
	250 mA holding current (max. 30 Ohm)

When the handsets are configured as shown, the intercom function for all devices is enabled. Upon receipt of a call from the EP, all handsets will ring, but only the handset configured with N = 1 will switch on.
To enable the video handsets to switch on simultaneously, it will be necessary to power each handset locally using the additional power supply item 346020.

APARTMENT 16

⚠ WARNING

■ Configure the apartment entrance panels starting from P = 1
■ **The intercom function between apartments cannot be set, if the systems in both apartment have been installed using the handset expansion diagram.**
■ All the handsets must be MASTER.

A For the realization of the Entrance Panel can be used without distinction the AXOLUTE Outdoor, SFERA/SFERA CLASSIC or MINISFERA pushbutton panels. For more information consult the "ENTRANCE PANEL VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

B To install alternative Handsets to those indicated in the diagrams refer to "HANDSET VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

C Move to ON the microswitch, on the back of the handset, which ends the line.

D If the EP is used in "Line Expansion" mode (346851 with MOD-0), only one input of the A/V node may be used.

$N = -$
$= 9$
$P = 1$
349321

$N = 1$
$= 0$
$P = 1$
349321

$N = -$
$= 8$
$P = 1$
349320

$N = -$
$= 7$
$P = 1$
349320

$N = -$
$= 6$
$P = 1$
349320

346841
P1 P2 P3 P4
IN
OUT

F441
OUT1 OUT2 OUT3 OUT4
OUT
IN
IN1 IN2 IN3 IN4 SC S1

346000
IP30
BUS 2 1
230 Vac

$M = -$
$= 1$
MOD = -
OUT 346851
IN
ON
346851

One-family system with 20 Handsets

ITEM	DESCRIPTION
351300	A/V module with SFERA WIDE ANGLE camera
346000	Power supply
346830	Video adapters
346841	Floor shunt
346851	System expansion module
349320	AXOLUTE VIDEO STATION NIGHTER
349321	AXOLUTE VIDEO STATION WHICE
F441	Audio/video node
347400	Coaxial - 2 WIRE interface
S1	Electric door lock 18V 4 A impulsive
	250 mA holding current (max. 30 Ohm)

![BTicino logo]

Upon arrival of the call, all Handsets ring and all those configured with N = 1 switch on. The INTERCOM call causes all handsets with the same configuration to ring.

To activate the intercom on all the handsets see the previous diagram.

To enable the video handsets to switch on simultaneously, it will be necessary to power each handset locally using the additional power supply item 346020.

⚠ WARNING

A For the Entrance Panel, all the pushbutton panels of SFERA/SFERA CLASSIC or MINISFERA can be used. For more information consult the "ENTRANCE PANEL VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

B To install alternative Handsets to those indicated in the diagrams refer to "HANDSET VERSIONS" and "GENERAL RULES FOR INSTALLATION" sections.

C Move to ON the microswitch, on the back of the handset, which ends the line.
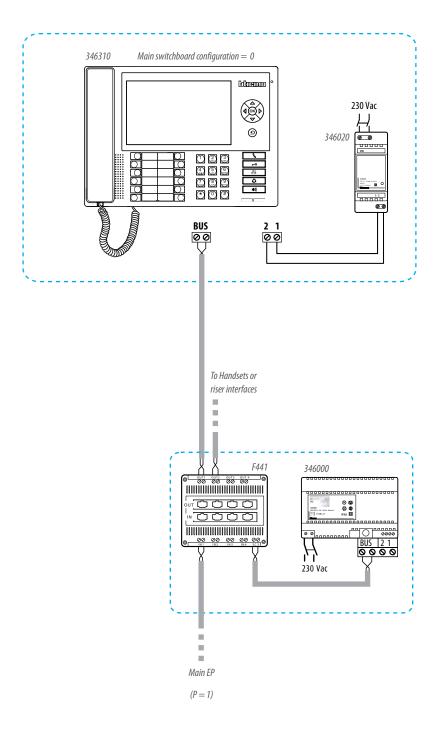
2 WIRE system with single riser and one switchboard

ITEM	DESCRIPTION
346310	Switchboard
346020	Additional power supply
F441	Audio/video node
346000	Power supply

⚠ *WARNING*

– *Additional power supply item 346020 recommended*

– *For the functional check and the calculation of current absorptions use the YouDiagram software - which can be downloaded free of charge from the website www.international.bticino.com*

– *For the configuration of the switchboard refer to the documentation supplied with the product or the configuration software*
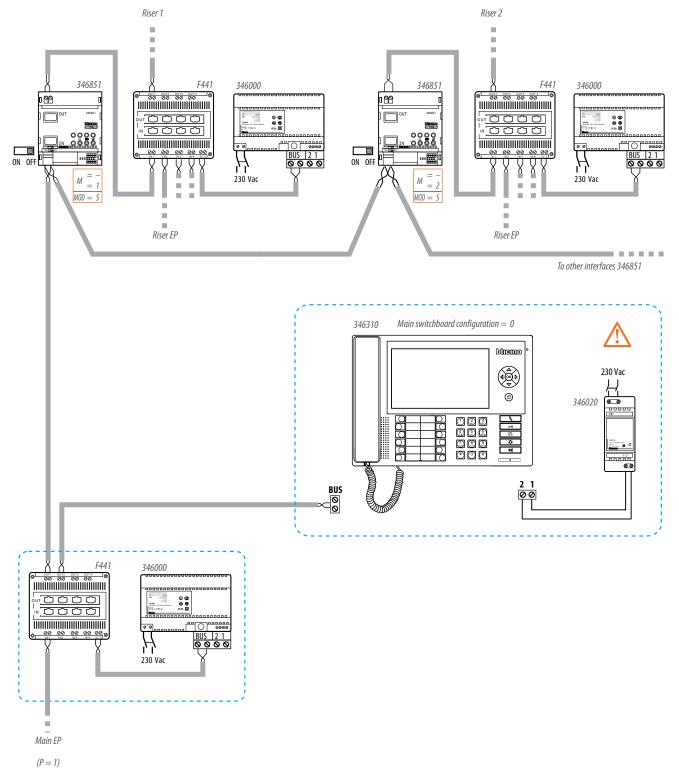
System with one switchboard and independent risers

ITEM	DESCRIPTION
346310	Switchboard
346020	Additional power supply
F441	Audio/video node
346000	Power supply
346851	System expansion module

⚠ WARNING

– Additional power supply item 346020 recommended

– For the functional check and the calculation of current absorptions use the YouDiagram software - which can be downloaded free of charge from the website www.www.international.bticino.com

– For the configuration of the switchboard refer to the documentation supplied with the product or the configuration software

– The switchboard does not manage riser EPs and apartment EPs

Riser 1

Riser 2

346851 — F441 — 346000

$M = -$
$= 1$
$MOD = 5$

ON OFF

230 Vac

Riser EP

346851 — F441 — 346000

$M = -$
$= 2$
$MOD = 5$

ON OFF

230 Vac

Riser EP

To other interfaces 346851

346310   Main switchboard configuration = 0

⚠

230 Vac

346020

BUS

2 1

F441   346000

230 Vac

BUS 2 1

Main EP

(P = 1)
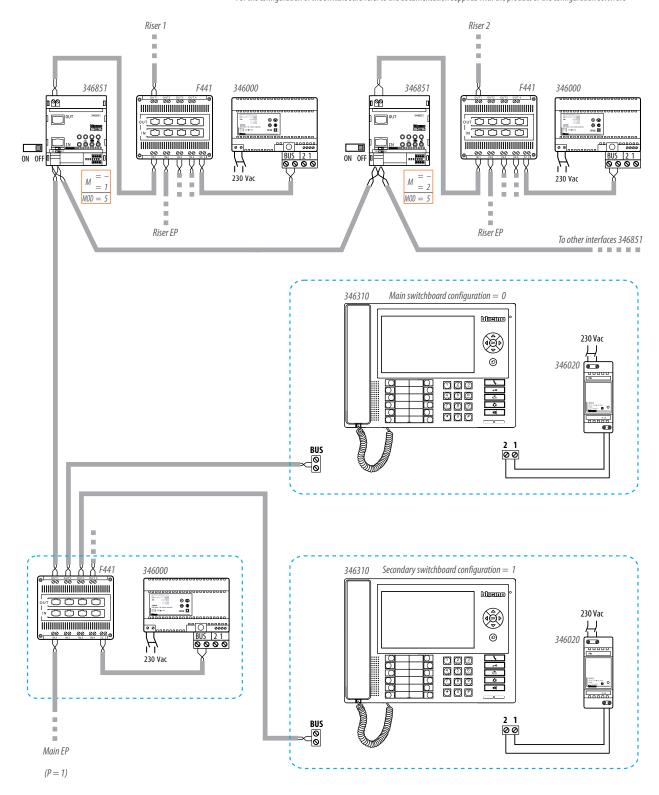
System with more switchboards and independent risers

ITEM	DESCRIPTION
346310	Switchboard
346020	Additional power supply
F441	Audio/video node
346000	Power supply

⚠ *WARNING*
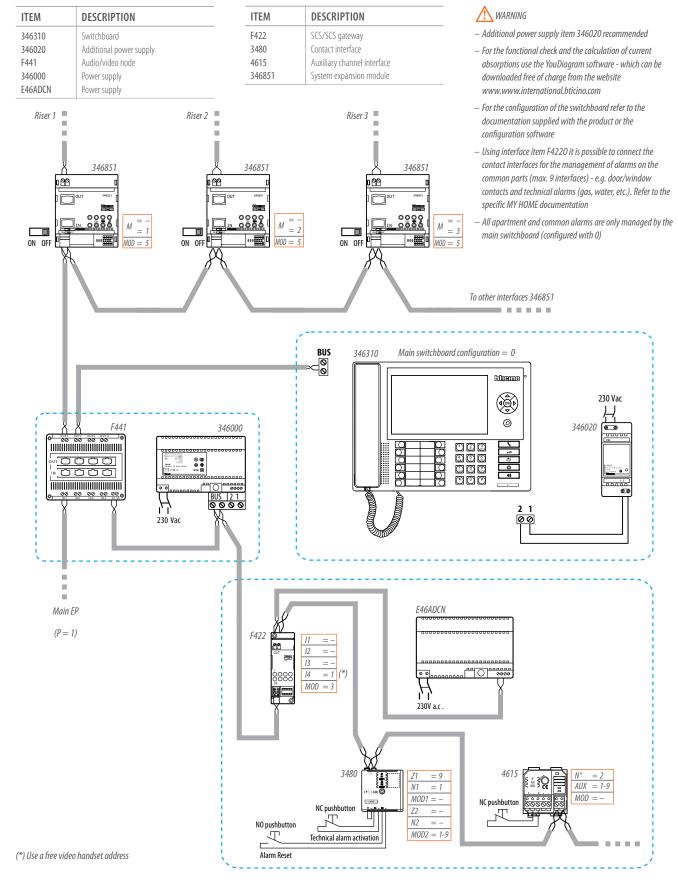
– *Additional power supply item 346020 recommended*

– *Max. 3 switchboards that can be connected with star type connection to a video/audio node   With the IN/OUT connection it is possible to connect up to 16 switchboards and 80 EPs*

– *For the configuration of the switchboard refer to the documentation supplied with the product or the configuration software*

System with display of alarms from common parts on backbone

ITEM	DESCRIPTION
346310	Switchboard
346020	Additional power supply
F441	Audio/video node
346000	Power supply
E46ADCN	Power supply

ITEM	DESCRIPTION
F422	SCS/SCS gateway
3480	Contact interface
4615	Auxiliary channel interface
346851	System expansion module

⚠ WARNING

– Additional power supply item 346020 recommended

– For the functional check and the calculation of current absorptions use the YouDiagram software - which can be downloaded free of charge from the website www.www.international.bticino.com

– For the configuration of the switchboard refer to the documentation supplied with the product or the configuration software

– Using interface item F4220 it is possible to connect the contact interfaces for the management of alarms on the common parts (max. 9 interfaces) - e.g. door/window contacts and technical alarms (gas, water, etc.). Refer to the specific MY HOME documentation

– All apartment and common alarms are only managed by the main switchboard (configured with 0)

Riser 1

346851

OUT 346851
IN

ON OFF

$M = -$
$= 1$
$MOD = 5$

Riser 2

346851

OUT 346851
IN

ON OFF

$M = -$
$= 2$
$MOD = 5$

Riser 3

346851

OUT 346851
IN

ON OFF

$M = -$
$= 3$
$MOD = 5$

To other interfaces 346851

BUS

346310   Main switchboard configuration $= 0$

bticino

230 Vac

346020

2 1

F441   346000

OUT
IN

IN1 IN2 IN3 IN4 SCS

230 Vac

BUS 2 1

Main EP

(P = 1)

F422

OUT

IN

$I1 = -$
$I2 = -$
$I3 = -$
$I4 = 1$ (*)
$MOD = 3$

E46ADCN

230V a.c.

3480

NC pushbutton

NO pushbutton

Technical alarm activation

Alarm Reset

$Z1 = 9$
$N1 = 1$
$MOD1 = -$
$Z2 = -$
$N2 = -$
$MOD2 = 1-9$

4615

NC pushbutton

$N° = 2$
$AUX = 1-9$
$MOD = -$

(*) Use a free video handset address

2 WIRE backbone connection
of 16 switchboards

ITEM	DESCRIPTION
346310	Switchboard
346020	Additional power supply
F441	Audio/video node
346000	Power supply
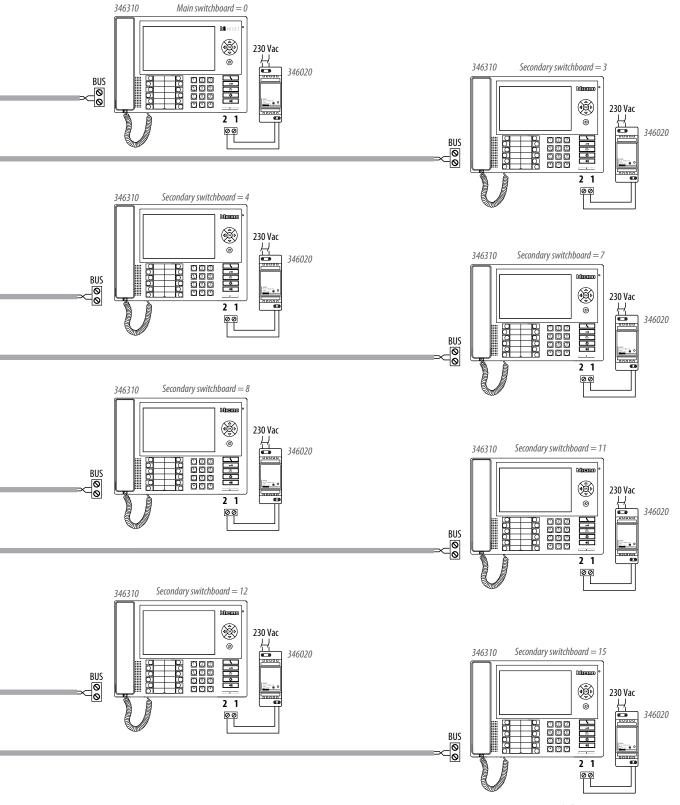
ITEM	DESCRIPTION
346830	Video adapter
346841	Floor shunt
346851	Riser interface
3499	Line terminator

⚠ WARNING
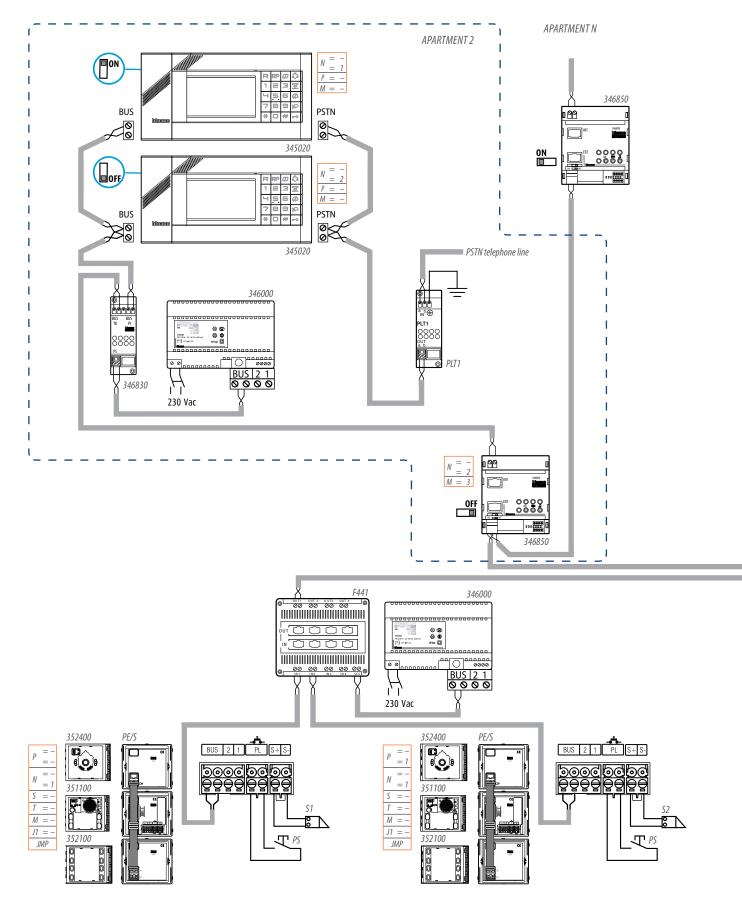
– In systems with several switchboards, secondary switchboards must be powered locally with an additional power supply item 346020

– For the configuration of the switchboard refer to the documentation supplied with the product or the configuration software

To the riser 1 handsets

346851   346830   346000

230 Vac

BUS 2 1

F441   346000

230 Vac

BUS 2 1

Main EP (P=1)

3499
346841
IN OUT
P1 P2 P3 P4
Switchboard 1
Switchboard 2

346841
IN OUT
P1 P2 P3 P4
Switchboard 5
Switchboard 6

3499
346841
IN OUT
P1 P2 P3 P4
Switchboard 9
Switchboard 10

3499
346841
IN OUT
P1 P2 P3 P4
Switchboard 13
Switchboard 14

346310   *Main switchboard = 0*

230 Vac

346020

BUS

2 1

346310   *Secondary switchboard = 3*

230 Vac

346020

BUS

2 1

346310   *Secondary switchboard = 4*

230 Vac

346020

BUS

2 1

346310   *Secondary switchboard = 7*

230 Vac

346020

BUS

2 1

346310   *Secondary switchboard = 8*

230 Vac

346020

BUS

2 1

346310   *Secondary switchboard = 11*

230 Vac

346020

BUS

2 1

346310   *Secondary switchboard = 12*

230 Vac

346020

BUS

2 1

346310   *Secondary switchboard = 15*

230 Vac

346020

BUS

2 1

Multi-family system with IRYDE Handsets (without PABX telephone switchboard)

APARTMENT 2

APARTMENT N

N	=	–
	=	1
P	=	–
M	=	–

BUS

PSTN

345020

N	=	–
	=	2
P	=	–
M	=	–

BUS

PSTN

345020

346850

ON

346000

BUS TK

BUS PI

PS

346830

230 Vac

PSTN telephone line

PLT1

PLT1

N	=	–
	=	2
M	=	3

OFF

346850

F441

346000

OUT

IN

BUS 2 1

230 Vac

P	=	–
	=	1
N	=	–
	=	1
S	=	–
T	=	–
M	=	–
J1	=	–
JMP		

352400

PE/S

351100

352100

BUS	2	1	PL	S+	S-

S1

PS

P	=	–
	=	1
N	=	–
	=	1
S	=	–
T	=	–
M	=	–
J1	=	–
JMP		

352400

PE/S

351100

352100

BUS	2	1	PL	S+	S-

S2

PS

N = –
= 1
P = –
M = –

PSTN

ON

BUS

345020

BUS

ON

N = –
= 3
P = –
M = –

PSTN

345020

N = –
= 2
P = –
M = –

PSTN

OFF

BUS

345020

BUS

OFF

N = –
= 4
P = –
M = –

PSTN

345020

PSTN telephone line

F441

346000

OUT 1 OUT 2 O UT 3 OUT 4

OUT

IN

IN 1 I N2 I N 3 IN 4 SCS

230 Vac

BUS 2 1

IN

PLT1

OUT
a b

PLT1

INT

346850

EXT

OFF

N = –
= 1
M = 3

346850

BUS

3916..

P = –
= 1
N = –
Z = –
A = –
PL = –

APARTMENT 1

ITEM	DESCRIPTION	QUANTITY
PLT1	PSTN telephone line protection	2
345020	Iryde Touch Phone	6
352400	SFERA camera module	2
351100	SFERA speaker module	2
352100	SFERA pushbutton module	2
F441	Audio-video node	2
346000	AV power supply 230 V	3
346850	Apartment interface	3

ITEM	DESCRIPTION	QUANTITY
346830	Video adapter	1
PE/S	SFERA entrance panel (main)	2
391657		
391658		
391659	2 wire indoor camera	1
391661		
391662		
391663		
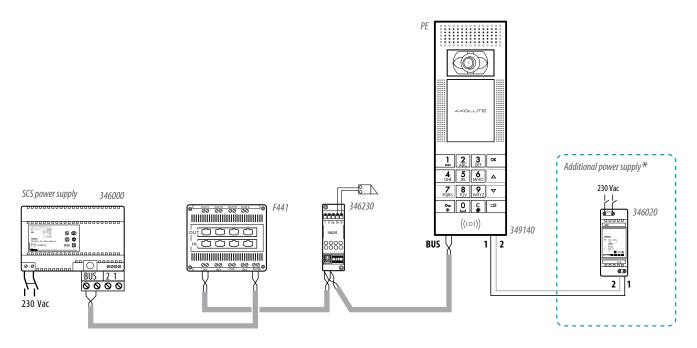
Wiring versions for Entrance Panels/Cameras

Examples of connection of the Entrance Panels (all types) for audio or video systems.
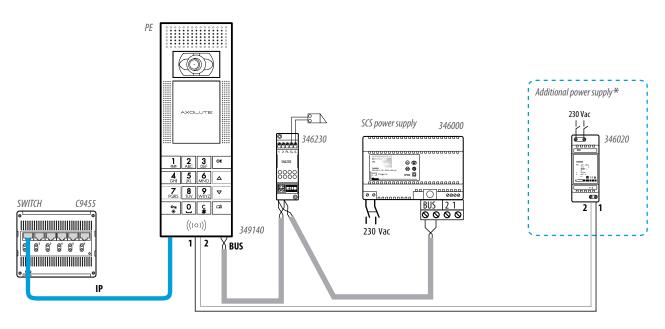
AXOLUTE OUTDOOR ENTRANCE PANEL

2 WIRE BUS SCS CONNECTION

NOTE (✱): Additional power supply needed for distances (EP-SCS power supply) exceeding 50 m (with cable item 336904).

ETHERNET IP CONNECTION
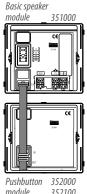
NOTE (✱): Additional power supply needed for distances (EP-SCS power supply) exceeding 50 m (with cable item 336904).
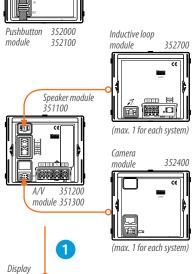
SFERA New – SFERA Robur entrance panels

Thanks to their flexibility and composition characteristics, SFERA NEW and SFERA ROBUR entrance panels offer infinite installation combinations. As it is not possible to show all solutions, below are some simple **rules that must be complied with for the creation of electronic modules.**

When composing the entrance panel, always start from the speaker module – Audio/Video module:

Basic speaker module 351000

To the BASIC 351000 speaker module it is possible to connect **ONLY pushbutton modules 352000/352100**, with all the pushbuttons on single column, or all on double column- **mixed solutions are NOT possible.**

Pushbutton module 352000 352100

Inductive loop module 352700

Speaker module 351100
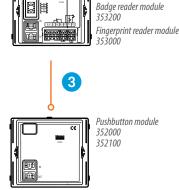
To speaker module 351100 and Audio/Video modules items 351200/351300 it is possible to directly connect (through dedicated connection) the inductive loop module and voice synthesis of controls 352700, and the N&D and wide angle 352400 camera module.

(max. 1 for each system)

Camera module 352400

A/V module 351200 351300

(max. 1 for each system)

1

Display module 352500

(max. 1 for each system)

All the other electronic modules must be connected complying with the following connection order:

1. Display module 352500 (ONLY 1 per installation)

2. Door lock release modules (keypad 353000, badge reader 353200, and fingerprint reader 353300)

3. Pushbutton modules 352000/352100

2

Keypad module 353000

Badge reader module 353200

Fingerprint reader module 353000

NOTES:

- The use of display module 352500 prevents the installation of pushbutton modules 352000/352100, and vice versa.

- The nameplate module 352200 may be installed without limitations (with the exception of the system absorption limits), in conjunction with display module 352500 and/or door lock release modules.

- The door lock release modules (keypad 353000, badge reader 353200, and fingerprint reader 353300) can be used individually and/or at the same time, also in STAND ALONE installations.

3

Pushbutton module 352000 352100
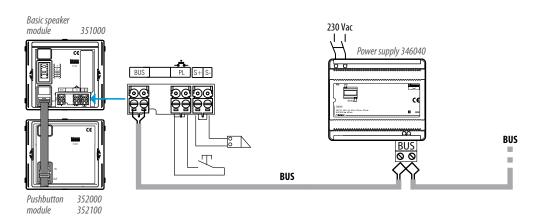
Wiring versions for Entrance Panels/Cameras
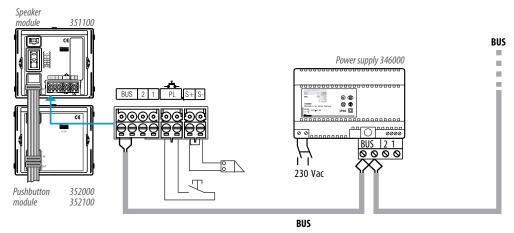
SFERA NEW - SFERA ROBUR ENTRANCE PANELS IN AUDIO SYSTEMS

Installation in audio systems with 346040 power supply
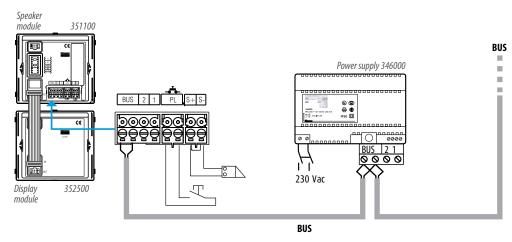
NOTE: other pushbutton modules 352000/352100 may be installed, complying with the installation requirements for SFERA NEW-SFERA ROBUR entrance panels.

Installation in audio systems with 346000 power supply
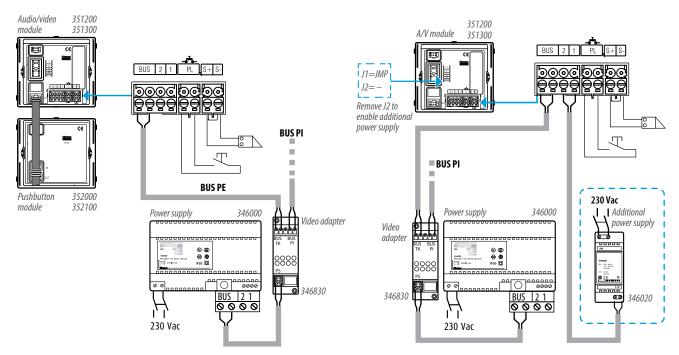
NOTE: other pushbutton modules 3520000/352100 may be installed, complying with the installation requirements for SFERA NEW-SFERA ROBUR entrance panels.
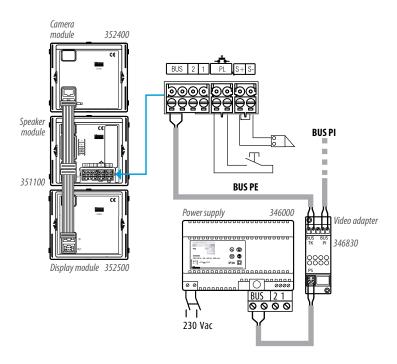
NOTE: The residents address book of display module 352500 must be created using a PC and the TiSferaDesign software, and then downloaded to the module using a USB interface.
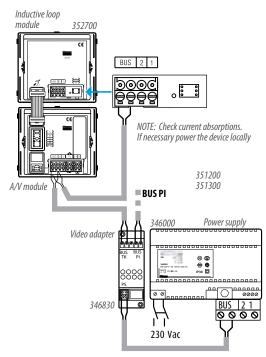
SFERA NEW - SFERA ROBUR ENTRANCE PANELS IN VIDEO SYSTEMS

Audio/video module 351200 351300

Pushbutton module 352000 352100

BUS 2 1 PL S+ S-

BUS PI

BUS PE

Power supply 346000

Video adapter

346830

230 Vac

BUS 2 1

A/V module 351200 351300

J1=JMP
J2= −

Remove J2 to enable additional power supply

BUS 2 1 PL S+ S-

BUS PI

230 Vac
Additional power supply

Video adapter

Power supply 346000

346830

230 Vac

BUS 2 1

346020

NOTE: In installations with over 26 handsets an additional power supply is required, connected to the entrance panel speaker module. To connect the additional power supply, configurator J2 must be removed from the speaker module.

Camera module 352400

Speaker module

351100

Display module 352500

BUS 2 1 PL S+ S-

BUS PI

BUS PE

Power supply 346000

Video adapter

BUS TK BUS PI 346830

230 Vac

BUS 2 1

NOTE: The residents address book of display module 352500 must be created using a PC and the TiSferaDesign software, and then downloaded to the module using a USB interface.

Inductive loop module 352700

BUS 2 1

NOTE: Check current absorptions. If necessary power the device locally

351200 351300

A/V module

BUS PI

Video adapter

346000 Power supply

BUS TK BUS PI

346830

230 Vac

BUS 2 1
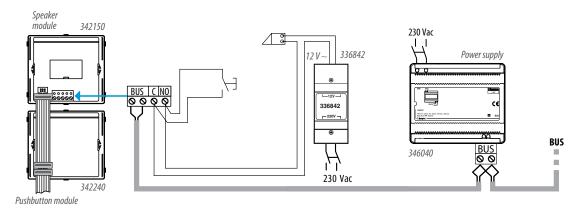
NOTE: The inductive loop module 352700 may be connected directly to speaker module 351100 and to A/V modules 351200/351300.

Wiring versions for Entrance Panels/Cameras
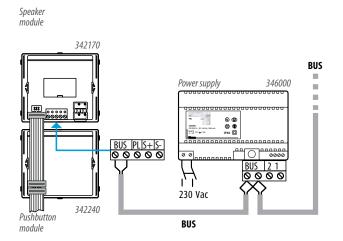
SFERA CLASSIC ENTRANCE PANELS IN AUDIO SYSTEMS

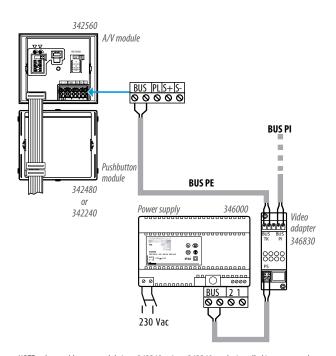SFERA Entrance Panel to be installed on audio systems with power supply, item 346040
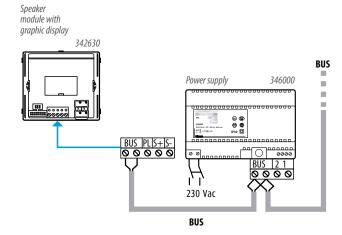
NOTE: other pushbutton module Item 342240 can be installed in respect to the installed standards of the SFERA CLASSICentrance panels. Allow for a transformer 336842 for the powering of the door lock.

SFERA CLASSIC Entrance Panels to be installed on audio systems with power supply, item 346000
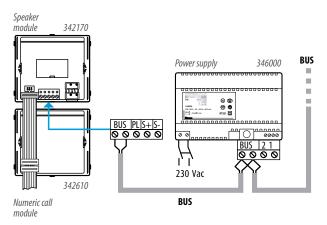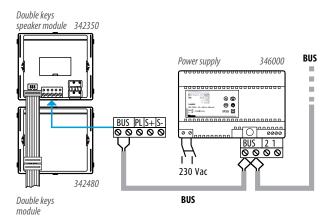
NOTE: other pushbutton module item 342240 can be installed in respect to the installed standards
        of the SFERA CLASSIC entrance panels.
        Connect the orange card (CT15/11) supplied with the speaker module to the last SFERA
        CLASSIC pushbutton module.

NOTE: It is not necessary to install other modules. Item 342630 must be programmed downloading by the appropriate RS232 interface item 335919 or USB (item 3559) the directory created with a PC and the TICALL software (provided with it). The programming can be made also without a PC through an infrared remote control item 392123.
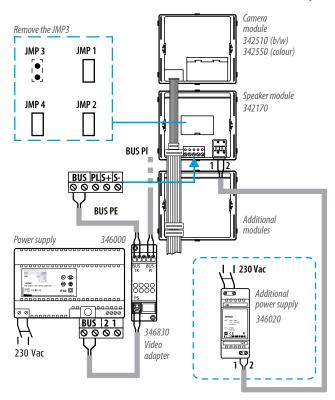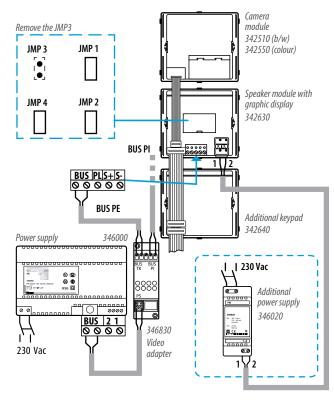
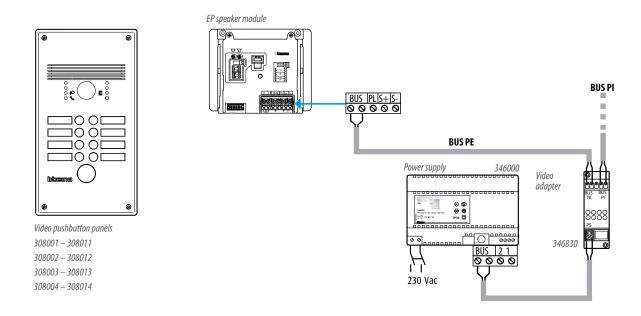NOTE: other nameplate modules item 342200 can be installed in respect to the installed standards of the SFERA CLASSIC entrance panels.

SFERA CLASSIC Entrance Panel to be installed on video systems.

Remove the JMP3

JMP 3   JMP 1

JMP 4   JMP 2

BUS PI

BUS PL S+ S-

BUS PE

Power supply   346000

BUS TK   BUS PI

PS

BUS 2 1

230 Vac

346830
Video
adapter

Camera
module
342510 (b/w)
342550 (colour)

Speaker module
342170

1 2

Additional
modules

230 Vac

Additional
power supply
346020

1 2
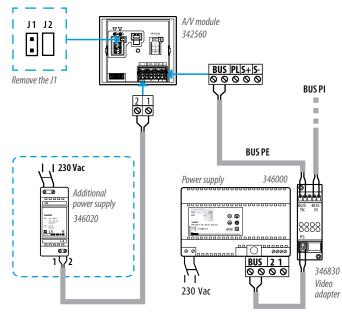
NOTE: in systems with more than 26 handsets install an additional power supply to be connected
to speaker module of entrance panel. For connecting the additional power supply remove from the
speaker module the JMP3 jumper. Other pushbutton module Item 342240 can be installed in
respect to the installed standards of the SFERA CLASSIC entrance panels.

Remove the JMP3

JMP 3   JMP 1

JMP 4   JMP 2

BUS PI

BUS PL S+ S-

BUS PE

Power supply   346000

BUS TK   BUS PI

PS

BUS 2 1

230 Vac

346830
Video
adapter

Camera
module
342510 (b/w)
342550 (colour)

Speaker module with
graphic display
342630

1 2

Additional keypad
342640

230 Vac

Additional
power supply
346020

1 2

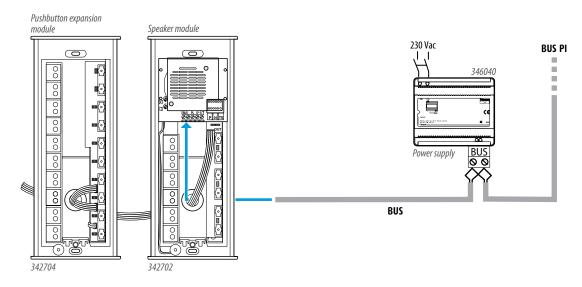NOTE: in systems with more than 26 handsets install an additional power supply to be connected
to speaker module of entrance panel. For connecting the additional power supply remove from the
speaker module the JMP3 jumper. Using the display call module is not necessary to install other
modules. Item 342630 must be programmed downloading by the appropriate RS232 interface
item 335919 or USB (item 3559) the directory created with a PC and the TICALL software. The
programming can be made also without a PC through an infrared remote control item 392123.

J 1 J 2

Remove the J1

A/V module
342560

2 1

BUS PL S+ S-

BUS PI

BUS PE

230 Vac

Additional
power supply
346020

1 2

Power supply   346000

IP30

BUS TK   BUS PI

PS

BUS 2 1

230 Vac

346830
Video
adapter
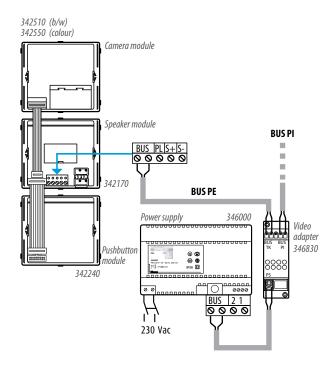
NOTE: in systems with more than 26 handsets install an additional power supply to be connected
to speaker module of entrance panel. For connecting the additional power supply remove from the
speaker module the JMP3 jumper.
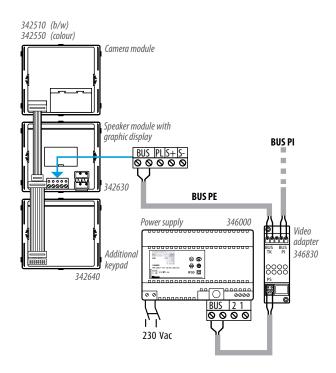
# Wiring versions for Entrance Panels/Cameras

SFERA ENTRANCE PANELS ON VIDEO SYSTEMS
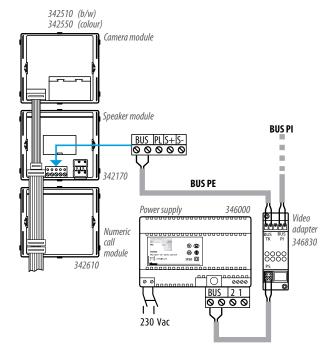
SFERA Entrance Panel to be installed on video systems.

342510 (b/w)
342550 (colour)
Camera module

Speaker module

BUS PI

BUS PL S+ S-

342170

BUS PE

Pushbutton module

342240

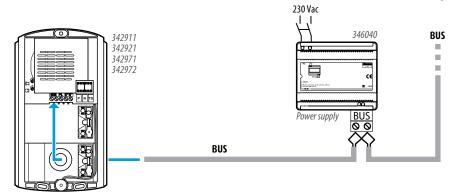*Power supply   346000*

Video adapter 346830

BUS 2 1

230 Vac

NOTE: other pushbutton module Item 342240 can be installed in respect to the installed standards of the SFERA entrance panels.

342510 (b/w)
342550 (colour)
Camera module

Speaker module with graphic display

BUS PI

BUS PL S+ S-

342630

BUS PE

Additional keypad

342640

Power supply   346000

Video adapter 346830

BUS 2 1

230 Vac

NOTE: It is not necessary to install other modules. Item 342630 must be programmed downloading by the appropriate RS232 interface item 335919 or USB (item 3559) the directory created with a PC and the TICALL software. The programming can be made also without a PC through an infrared remote control item 392123.

342510 (b/w)
342550 (colour)
Camera module

Speaker module

BUS PI

BUS PL S+ S-

342170

BUS PE

Numeric call module

342610

Power supply   346000

Video adapter 346830

BUS 2 1

230 Vac

NOTE: other nameplate modules item 342200 can be installed in respect to the installed standards of the SFERA entrance panels.

342560
A/V module

BUS PL S+ S-

BUS PI

Pushbutton module

342480 or 342240

BUS PE

Power supply   346000

Video adapter 346830

BUS 2 1

230 Vac

NOTE: other pushbutton module item 342240 or item 342240 can be installed in respect to the installed standards of the SFERA entrance panels.

![BTicino logo]
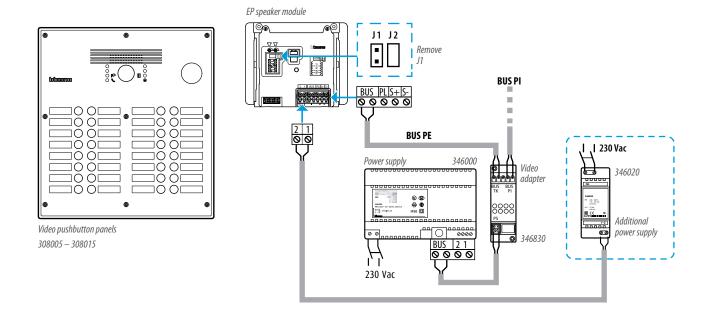
MONOBLOC VANDAL-RESISTANT ENTRANCE PANELS ON VIDEO SYSTEMS

Systems with vandal-resistant pushbutton panel and 26 handsets maximum

EP speaker module

BUS PI

BUS PE

Power supply   *346000*

Video adapter

346830

BUS PL S+ S-

BUS TK   BUS PI

PS

BUS 2 1

230 Vac

Video pushbutton panels
308001 – 308011
308002 – 308012
308003 – 308013
308004 – 308014

Systems with vandal-resistant pushbutton panel and more than 26 handsets

EP speaker module

J 1   J 2   *Remove J1*

BUS PI

BUS PE

BUS PL S+ S-

2 1

Power supply   *346000*

Video adapter

BUS TK   BUS PI

PS

230 Vac

346020

Additional power supply

BUS 2 1

230 Vac

346830

Video pushbutton panels
308005 – 308015

NOTE: in systems with more than 26 handsets install an additional power supply to be connected to speaker module of entrance panel. Before connecting the additional power supply remove from the speaker module the J1 jumper.

Wiring versions for Entrance Panels/Cameras
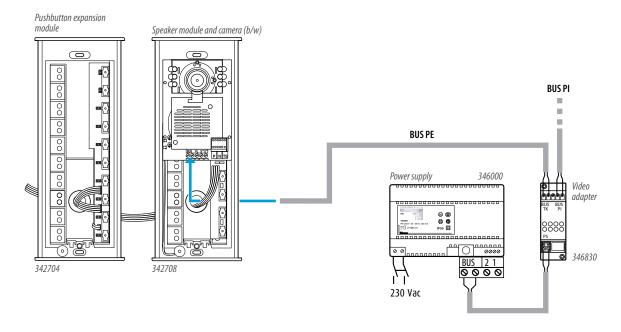
MINISFERA ENTRANCE PANELS

MINISFERA Entrance Panel to be installed on audio systems with power supply, item 346040.

Pushbutton expansion module

Speaker module

230 Vac

BUS PI

346040

Power supply BUS

BUS

342704   *342702*

NOTE: other pushbutton expansion module item 342704 can be installed in respect to the installed standards of the MINISFERA entrance panels. **MINISFERA Entrance Panels cannot be powered locally.**

MINISFERA Entrance Panel to be installed on video systems

Pushbutton expansion module

Speaker module and camera (b/w)

BUS PI

BUS PE

Power supply   *346000*

Video adapter

BUS
TK

BUS
PI

PS

BUS | 2 1

346830

230 Vac

342704   *342708*

NOTE: other pushbutton expansion module item 342704 can be installed in respect to the installed standards of the MINISFERA entrance panels. MINISFERA Entrance Panels cannot be powered locally.
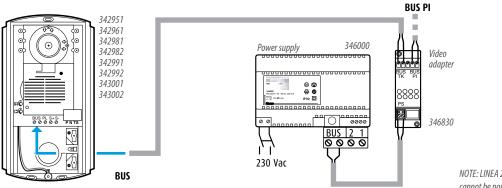
LINEA 2000 AND LINEA 2000 METAL ENTRANCE PANELS

LINEA 2000/LINEA 2000 METAL Entrance Panels to be installed on audio one-family and two-family


```
342911
342921
342971
342972
```

230 Vac

346040   **BUS**

Power supply   BUS

BUS

LINEA 2000/LINEA 2000 METAL Entrance Panels to be installed on video mono and two-family

BUS PI

```
342951
342961
342981
342982
342991
342992
343001
343002
```

Power supply   *346000*

Video adapter

BUS TK   BUS PI

PS

346830

BUS 2 1

230 Vac

BUS
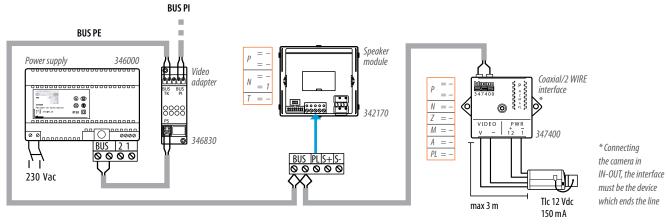
NOTE: LINEA 2000 and LINEA 2000 METAL Entrance Panels cannot be powered locally.

COAXIAL/2 WIRE INTERFACE MODULE 347400

In the diagrams alternative to SFERA video Entrance Panels, we can use the coaxal/2 WIRE interface for cameras at 12 Vdc with relating camera. The camera can be inserted in the system associated to a SFERA audio speaker module (separate camera) or as independent camera. In the system, the coaxal/2 WIRE interface (item 347400) is considered as a video Entrance Panel.

Example – separate camera connected in IN-OUT on the speaker module, item 342170
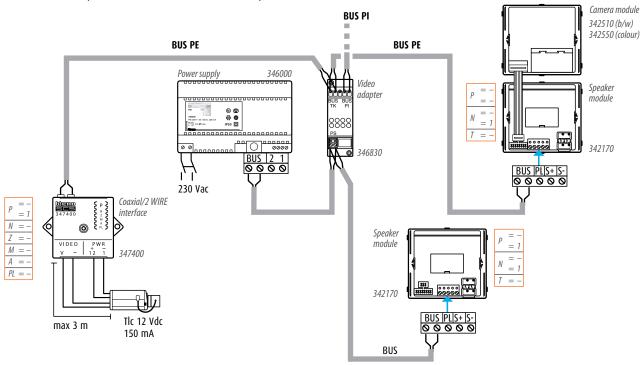
The interface item 347400 (used for the connection of the separate camera) and the relating speaker module must be configured with the same value in P.

BUS PI

BUS PE

Power supply   *346000*

Video adapter

BUS TK   BUS PI

PS

346830

BUS 2 1

230 Vac

```
P  =  -
   =  -
N     = 1
T  =  -
```

Speaker module

342170

BUS PL S+ S-

```
P  = -
   = -
N  = -
Z  = -
M  = -
A  = -
PL = -
```

Coaxial/2 WIRE interface *

VIDEO | PWR
V – | + –
      | 1 2

347400

max 3 m

Tlc 12 Vdc
150 mA

* Connecting the camera in IN-OUT, the interface must be the device which ends the line

NOTE: the Entrance Panel so created (speaker module item 342170 and separate camera) must be considered as a video Entrance Panel both for the number of risers connectable and for the Handsets number.
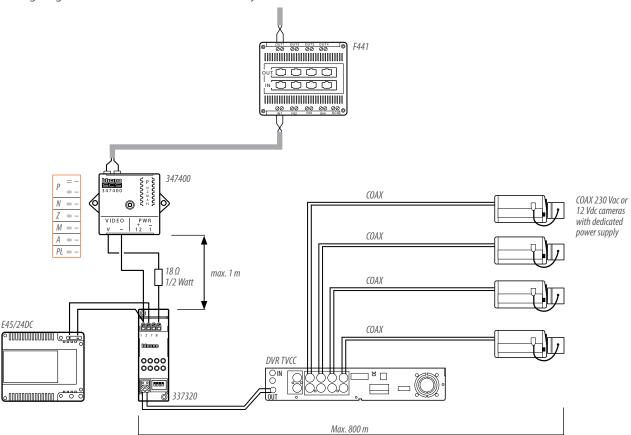
Wiring versions for Entrance Panels/Cameras

Video entrance panel and audio handset with separate coaxial camera

BUS PI

BUS PE

BUS PE

Power supply   346000

Camera module
342510 (b/w)
342550 (colour)

Video adapter

BUS TK   BUS PI

PS

346830

Speaker module

$P = -$
$= -$
$N = -$
$= 1$
$T = -$

342170

BUS 2 1

230 Vac

| BUS | PL | S+ | S- |

$P = -$
$= 1$
$N = -$
$Z = -$
$M = -$
$A = -$
$PL = -$

Coaxial/2 WIRE interface

347400

VIDEO | PWR
V – | 12 1

347400

max 3 m   Tlc 12 Vdc 150 mA

Speaker module

342170

$P = -$
$= 1$
$N = -$
$= 1$
$T = -$

| BUS | PL | S+ | S- |

BUS
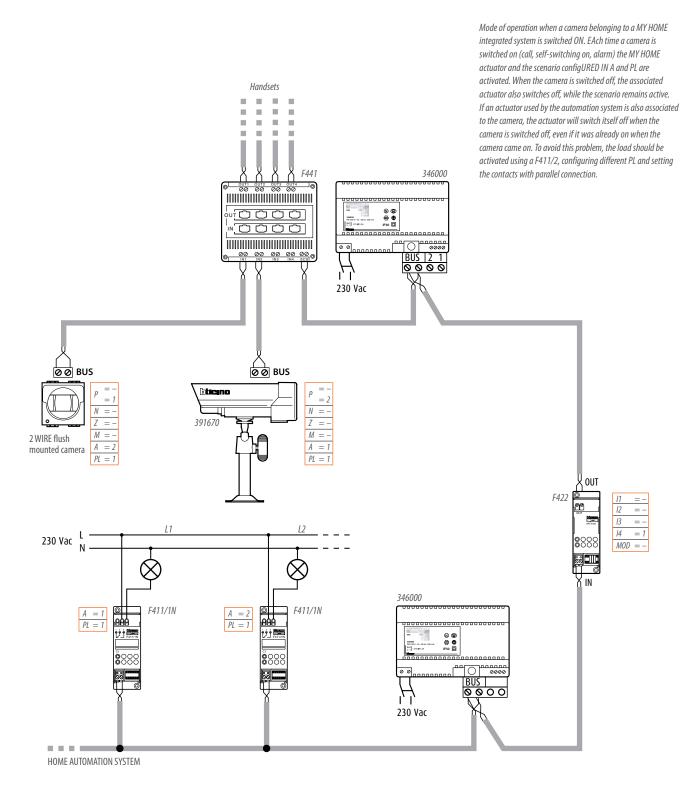
NOTE: the camera must be considered as a video Entrance Panel both for the number of connectable risers and for the number of Handsets

Wiring diagram for CCTV cameras with 2 WIRE system

OUT1 OUT2 OUT3 OUT4

F441

OUT
IN

IN1 IN2 IN3 IN4 SCS

347400

347400

VIDEO | PWR
V – | 12 1

$P = -$
$= -$
$N = -$
$Z = -$
$M = -$
$A = -$
$PL = -$

18 Ω
1/2 Watt   max. 1 m

COAX

COAX 230 Vac or 12 Vdc cameras with dedicated power supply

COAX

COAX

E45/24DC

COAX

1 2 7 8

DVR TVCC

IN

337320

OUT

DC

Max. 800 m

ACTIVATION OF A LOAD WHEN SWITCHING ON A CAMERA

Mode of operation when a camera belonging to a MY HOME integrated system is switched ON. EAch time a camera is switched on (call, self-switching on, alarm) the MY HOME actuator and the scenario configURED IN A and PL are activated. When the camera is switched off, the associated actuator also switches off, while the scenario remains active. If an actuator used by the automation system is also associated to the camera, the actuator will switch itself off when the camera is switched off, even if it was already on when the camera came on. To avoid this problem, the load should be activated using a F411/2, configuring different PL and setting the contacts with parallel connection.

Handsets

F441

346000

230 Vac

BUS 2 1

BUS

P	= –
	= 1
N	= –
Z	= –
M	= –
A	= 2
PL	= 1

2 WIRE flush mounted camera

BUS

391670

P	= –
	= 2
N	= –
Z	= –
M	= –
A	= 1
PL	= 1

OUT

F422

I1	= –
I2	= –
I3	= –
I4	= 1
MOD	= –

IN

230 Vac

L   L1   L2

N

A	= 1
PL	= 1

F411/1N

A	= 2
PL	= 1

F411/1N

346000

230 Vac

BUS

HOME AUTOMATION SYSTEM

Handset versions - One-family or multi-family systems with apartment interface, item 346850

EXAMPLE - 4 VIDEO HANDSETS IN SIMULTANEOUS SWITCHING ON AND ONE MELODIC BELL

⚠ *WARNING*

To install several video handsets so that they switch on at the same time, one output from the floor shunt must be used for each one of these handsets.

N1 = –
N2 = 4
S = –
M = –

346982 - 346983
346984 - 349412
349413

3499

BUS

230 Vac — ON — J 1 OUT

344192

346020

2 — 1 — BUS

N	= –
	= 4
P	= –
	= –
M	= –

230 Vac — ON — J 1 OUT

344192

346020

2 — 1 — BUS

N	= –
	= 3
P	= –
	= –
M	= –

230 Vac — ON — J 1 OUT

344192

346020

2 — 1 — BUS

N	= –
	= 2
P	= –
	= –
M	= –

NOTES:

– If the melodic bell is installed in video systems as last riser or line device, it is necessary to install a line terminator, item 3499.

– It is possible to have the intercom function among the 4 devices.

P 1 P 2 P 3 P 4
bticino
IN OUT
346841

344192
ON

N	= –
	= 1
P	= –
	= –
M	= –

BUS

Handset BUS
(to 346830 or F441)

EXAMPLE - TABLE-TOP VIDEO HANDSET INSTALLATION

⚠ *WARNING*

A | *To install a table-top video handset, either the audio/video node (F441), or the floor shunt, item 346841, must be used, using one output for the installation itself.*

344192
ON

A

N	= –
	= 1
P	= –
	= –
M	= –

BUS

ON

A

N	= –
	= 2
P	= –

336982

336803
5 - brown
6 - brown - white

8 7 6 5
1 2 3 4

OUT2

F441

OUT1 OUT2 OUT3 OUT4

OUT

IN

IN1 IN2 IN3 IN4 SC S

346000

IP30

BUS 2 1

230 Vac

Video sources

Handset versions - Multi-family systems without apartment interface, item 346850

BTicino

⚠ WARNING

In the same apartment on the same call can be installed max. 3 devices (video handsets, audio handsets or bells).
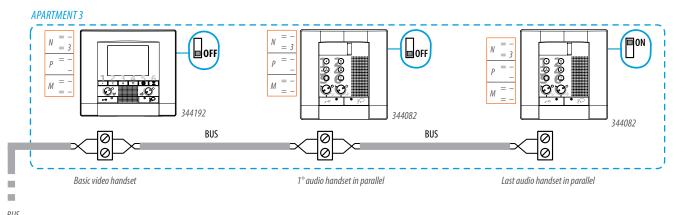
EXAMPLE - TWO ADDITIONAL AUDIO HANDSETS TO BASIC AUDIO HANDSET

APARTMENT 2

BUS audio

BUS audio

N	= 2	OFF
P	= –	
M	= –	

344082 344082 344082

BUS BUS BUS

Basic audio handset | Audio handset in parallel | Last audio handset in parallel

EXAMPLE - ONE ADDITIONAL AUDIO HANDSET AND BELL TO BASIC VIDEO HANDSET

APARTMENT 11

N	= 1	OFF
P	= –	
M	= –	

344192 344082 OFF/ON

1 5 — 1 5

336992 336910
336993
336994

BUS

Basic video handset | Audio handset in parallel | Extra bell (analogue)

BUS
from floor shunt (346841) or audio/video node (F441)
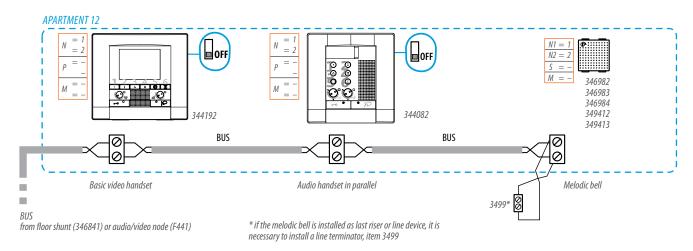
EXAMPLE - TWO ADDITIONAL AUDIO HANDSETS TO BASIC VIDEO HANDSET

APARTMENT 3

344192 344082 344082

BUS BUS

Basic video handset | 1° audio handset in parallel | Last audio handset in parallel

BUS
from floor shunt (346841) or audio/video node (F441)

2 WIRE VDE system | 141
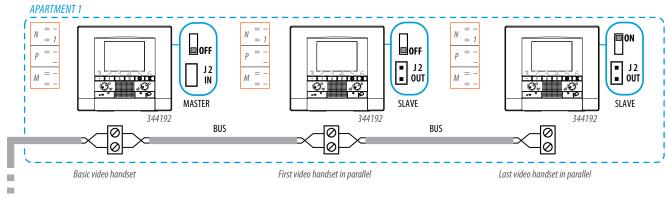
Handset versions - Multi-family systems without apartment interface, item 346850

EXAMPLE - AN AUDIO HANDSET AND A MELODIC BELL, IN ADDITION TO THE BASIC VIDEO HANDSET

APARTMENT 12

Basic video handset   Audio handset in parallel   Melodic bell

BUS
from floor shunt (346841) or audio/video node (F441)

* if the melodic bell is installed as last riser or line device, it is necessary to install a line terminator, item 3499
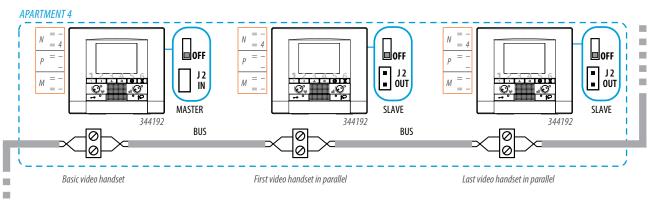
EXAMPLE - TWO VIDEO HANDSETS IN ADDITION TO THE BASIC VIDEO HANDSET

*This variation is **NOT** possible for handsets without MASTER/SLAVE function*

APARTMENT 1

Basic video handset   First video handset in parallel   Last video handset in parallel

Handset BUS
from floor shunt (346841) or audio/video node (F441)

APARTMENT 4

Basic video handset   First video handset in parallel   Last video handset in parallel
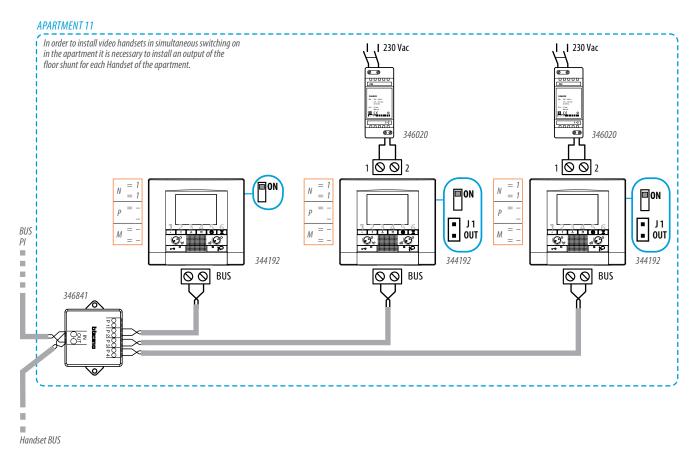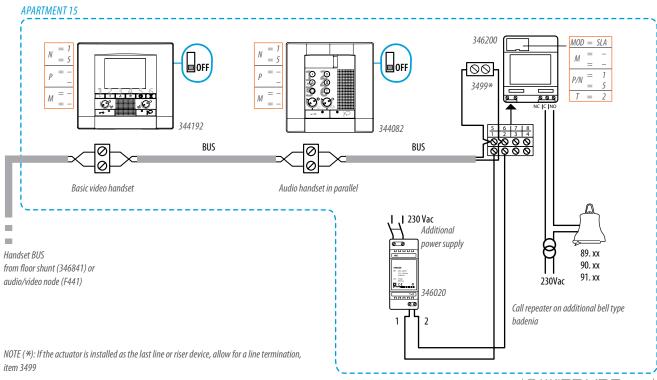
Handset BUS

EXAMPLE - THREE VIDEO HANDSETS IN SIMULTANEOUS SWITCHING ON

APARTMENT 11

In order to install video handsets in simultaneous switching on in the apartment it is necessary to install an output of the floor shunt for each Handset of the apartment.

230 Vac

346020

1 2

230 Vac

346020

1 2

N = 1
= 1
P = –
–
M = –
–

ON

344192

N = 1
= 1
P = –
–
M = –
–

ON

J 1
OUT

344192

N = 1
= 1
P = –
–
M = –
–

ON

J 1
OUT

344192

BUS

BUS

BUS

BUS
PI

346841

IN
OUT
P1 P2 P3 P4

Handset BUS

EXAMPLE - ONE HANDSET AND AN ADDITIONAL BELL TYPE BADENIA ADDED TO THE BASIC VIDEO HANDSET

APARTMENT 15

N = 1
= 5
P = –
–
M = –
–

OFF

344192

N = 1
= 5
P = –
–
M = –
–

OFF

344082

BUS

BUS

Basic video handset

Audio handset in parallel

346200

3499*

MOD = SLA
M = –
P/N = 1
= 5
T = 2

NC C NO

5 6 7 8
1 2 3 4

Handset BUS
from floor shunt (346841) or
audio/video node (F441)

230 Vac
Additional power supply

346020

1 2

89. xx
90. xx
91. xx

230Vac

Call repeater on additional bell type badenia

NOTE (*): If the actuator is installed as the last line or riser device, allow for a line termination, item 3499
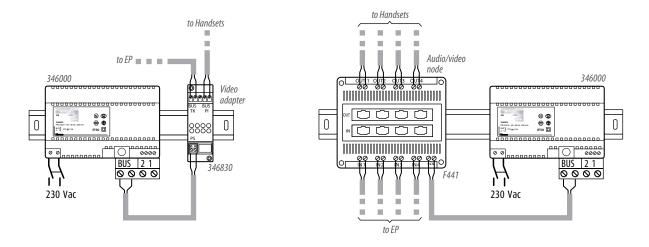
Connection versions for devices on DIN rail
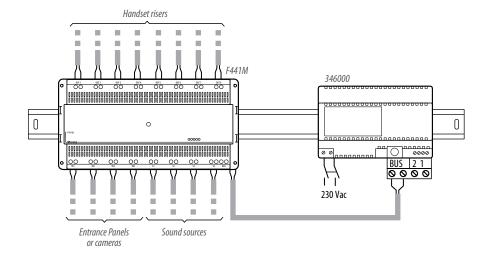
AUDIO/VIDEO NODE F441

In alternative to the video adapter, the audio/video node, item F441, can also be installed. When using the audio/video node it is also possible to connect up to 4 video entrance panels/cameras (or 4 audio/video nodes in cascade), and up to 4 x 2 WIRE video risers. The general system limits remain the same: up to 26 handsets and 6 shunts may be installed on each riser.

MULTICHANNEL MATRIX F441M

In alternative to the audio/video node, item F441, the multichannel matrix, item F441M, may also be used. The matrix gives the possibility of connecting (on the input) up to 4 entrance panels. Up to 8 risers can be powered on the output.
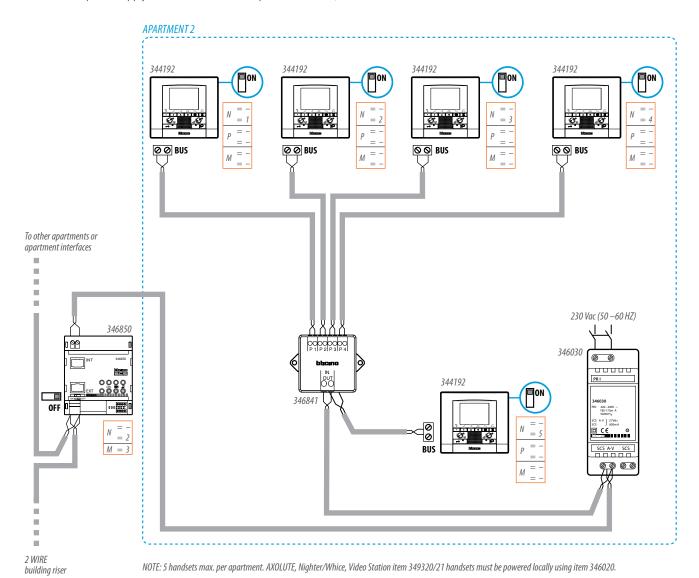
Connection versions for devices on DIN rail

APARTMENT INTERCOM WITH COMPACT 2 DIN POWER SUPPLY 346030

In order to install the **Apartment Intercom** function whilst saving on DIN modules, it is possible to use the compact power supply item 346030 in alternative to power supply item 346000 + video adapter item 346830, wired as shown below:

APARTMENT 2

To other apartments or apartment interfaces

2 WIRE building riser

NOTE: 5 handsets max. per apartment. AXOLUTE, Nighter/Whice, Video Station item 349320/21 handsets must be powered locally using item 346020.
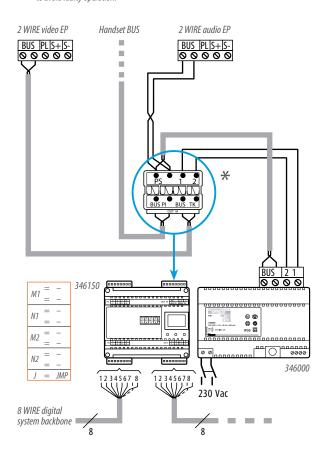
Connection versions for devices on DIN rail

8/2 WIRE INTERFACE 346150
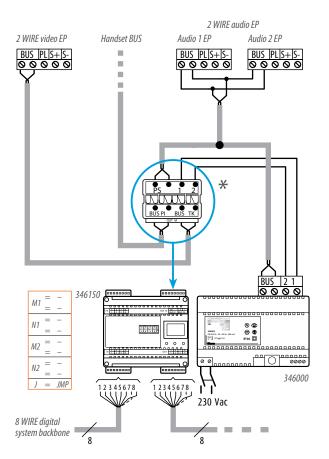
The screens only show one 2 WIRE riser entrance panel: with these variations it is possible to install one video EP and up to 2 audio EP.

⚠ WARNING

* In connecting wires 1 and 2, the numerical
correspondence must be strictly complied with, in order
to avoid faulty operation.

Interfaces 346150 must always be correctly configured
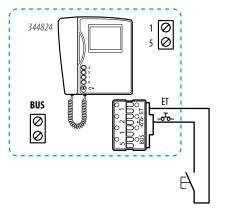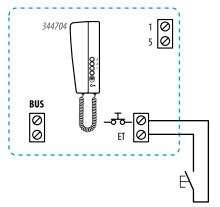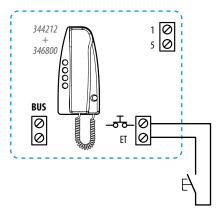
Auxiliary services – Call to the floor

CALL TO THE FLOOR

With BASIC POLYX VIDEO, POLYX AUDIO handsets, PIVOT and SWING video handsets, and the SPRINT handset item 344212, version that can be fitted with accessories, it is possible to activate the "call to the floor" function. In other words, by connecting a pushbutton between the clamps (ET/) it is possible to use the internal bell of the devices to enable the call from the entrance door of the apartment. In installations with handsets connected in parallel, only the handsets to which the call pushbutton is connected will ring.

EXAMPLE - Connection of PIVOT video handset

EXAMPLE - Connection of SWING audio handset

EXAMPLE - Connection of SPRINT audio handset which can be fitted
- The SPRINT handset, item 344202 does not have
connections for the call to the floor.

With ADVANCED handsets it is necessary to use the call to the floor on the BUS (see below).
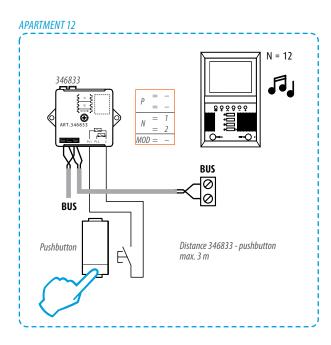
CALL TO THE FLOOR ON THE BUS WITH ITEM 346833 INTERFACE
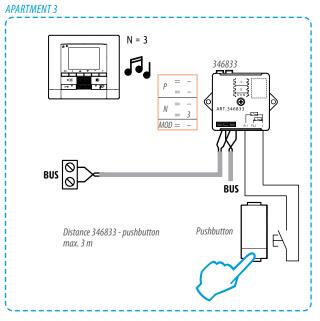
To be used with all advanced handsets, with SPRINT (version that cannot be fitted with accessories, item 344202) audio handset and in all those cases where more handsets must ring when a single button is pressed.
When using the call to the floor interface, the simple pressure of a pushbutton will enable to:
- the addressed floor call MOD = 0
- the general floor call MOD = 1
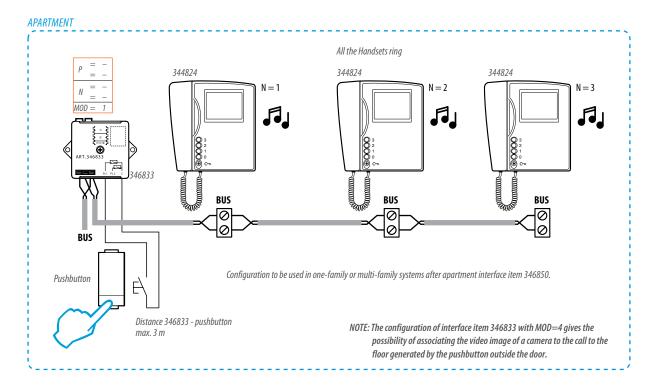
ADDRESSED FLOOR CALL WITH ITEM 346833 CONFIGURED WITH MOD = 0

APARTMENT 12

Pushbutton

Distance 346833 - pushbutton max. 3 m

APARTMENT 3

Distance 346833 - pushbutton max. 3 m

Pushbutton
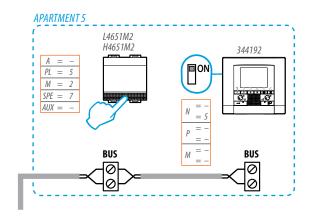
Auxiliary services – Call to the floor

GENERAL FLOOR CALL WITH ITEM 346833 CONFIGURED WITH MOD = 1

APARTMENT

All the Handsets ring

$$
\begin{array}{l}
P \quad = \; - \\
 \quad = \; - \\
N \quad = \; - \\
 \quad = \; - \\
MOD \; = \; 1
\end{array}
$$

344824 N = 1 *344824* N = 2 *344824* N = 3

ART. 346833

346833

BUS **BUS** **BUS**

BUS

Pushbutton

Configuration to be used in one-family or multi-family systems after apartment interface item 346850.

Distance 346833 - pushbutton max. 3 m

NOTE: The configuration of interface item 346833 with MOD=4 gives the possibility of associating the video image of a camera to the call to the floor generated by the pushbutton outside the door.

CALL TO THE FLOOR ON BUS WITH SPECIAL CONTROL L4651M2/H4651M2

Using the special control item L4651M2/H4651M2 it is possible to realize the call to the floor on BUS. Introducing the special control on the HANDSETS BUS (in the video systems the special control must be connected in input-output on the HANDSETS BUS) and configuring it for the call to the floor it is possible to realize the function without further wiring between the entry and the handset. In installations with handset in parallel, all the handsets of the apartment ring at the arrival of the call to the floor.

APARTMENT 5

L4651M2
H4651M2

$$
\begin{array}{l}
A \quad = \; - \\
PL \; = \; 5 \\
M \quad = \; 2 \\
SPE \; = \; 7 \\
AUX \; = \; -
\end{array}
$$

ON *344192*

$$
\begin{array}{l}
N \quad = \; - \\
 \quad = \; 5 \\
P \quad = \; - \\
 \quad = \; - \\
M \quad = \; - \\
 \quad = \; -
\end{array}
$$

BUS **BUS**

EXAMPLE - Call to the floor on BUS - connection before the handset

APARTMENT 13

344192 OFF

$$
\begin{array}{l}
N \quad = \; 1 \\
 \quad = \; 3 \\
P \quad = \; - \\
 \quad = \; - \\
M \quad = \; - \\
 \quad = \; -
\end{array}
$$

L4651M2
H4651M2

$$
\begin{array}{l}
A \quad = \; 1 \\
PL \; = \; 3 \\
M \quad = \; 2 \\
SPE \; = \; 7 \\
AUX \; = \; -
\end{array}
$$

BUS **BUS** **BUS**

EXAMPLE - Call to the floor on BUS - connection after the Handset. If the special control is connected as the last of the riser or apartment line, it is necessary to install a terminator item 3499 in IN-OUT on the control.

Auxiliary services – Door lock control

DOOR LOCK CONTROL CONNECTION

SFERA - MINISFERA - LINEA 2000 and LINEA 2000 METAL entrance panels

BUS PL S+ S-

S

Wiring for door lock control to special pushbutton of Handsets

SFERA NEW – SFERA ROBUR entrance panels

BUS 2 1 PL S+ S-

S

PS

SFERA - MINISFERA - LINEA 2000 and LINEA 2000 METAL entrance panels
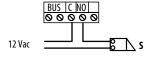
BUS PL S+ S-

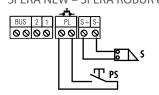** NOTE: the door lock control is not timed from PS pushbutton*

* PS

S

Wiring for door lock control to special pushbutton of Handsets and to PS pushbutton
Between S+ and S-, 18 V -4 A impulsive are available (250 mA holding current) max. 30 Ohm
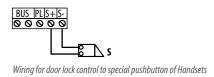
SFERA entrance panel (342150)

BUS C NO

12 Vac

S

Wiring for door lock control to special pushbutton of Handsets

AXOLUTE OUTDOOR ENTRANCE PANEL IN 2 WIRE SYSTEMS

Handset risers

346000

230 Vac

F441

346230

346230

349140

Warning: in order to control one door lock with AXOLUTE Outdoor EP it will be necessary to use a door lock actuator, item 346230 and 346260

BUS 2 1

* 230 Vac

346020

1 2

OPZIONALE

* NOTE: required for lines (EP - SCS power supply) > 50 m - (cable item 336904)

AXOLUTE OUTDOOR ENTRANCE PANEL IN IP SYSTEMS

SWITCH C9455

346230

346230

346000

230 Vac

BUS 2 1

** 230 Vac

346020

1 2

Ethernet cable

2 1

349140

** NOTE: required for lines (EP - SCS power supply) > 50 m - (cable item 336904).

Auxiliary services – Door lock control

DOOR LOCK CONTROL FROM BUS

Installation on video systems

Using the special control, L4651M2/H4651M2 type, the door lock control is timed
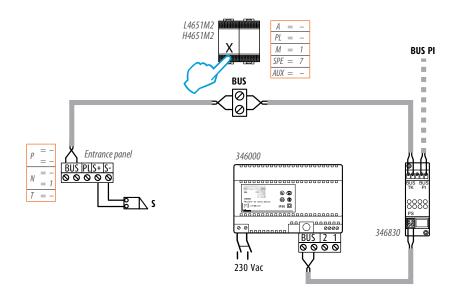
The X pushbutton opened the door lock of the entrance panel configured with P = 0 (the special control configured with A=0 and PL = 0 act on the entrance panel configured with P=0).

$P1 = A/PL + 1$
$P2 = A/PL + 3$
$P3 = A/PL$
$P4 = A/PL + 2$

NOTE: in audio systems, the wiring of the special control can occur in any point of the system

L4651M2 H4651M2	
A	= −
PL	= −
M	= 1
SPE	= 7
AUX	= −

P	= −
	= −
N	= −
	= 1
T	= −

Entrance panel — BUS PL S+ S−

346000

346830

230 Vac
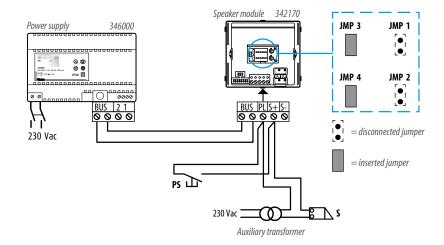
DOOR LOCK CONTROL WITH AUXILIARY TRANSFORMER

With SFERA CLASSIC 342170 or 342350 speaker module
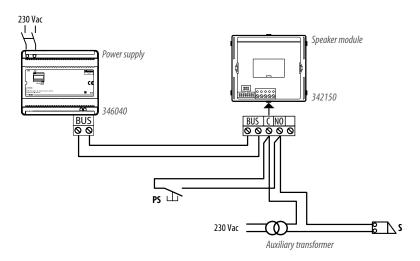
Predispose the jumpers as indicated here. The PL and S+ contacts can be crossed by a maximum power of 24 Vac/dc.

Remove the JMP1 and JMP2 jumpers from SFERA CLASSIC speaker module

Power supply   346000

Speaker module   342170

JMP 3   JMP 1

JMP 4   JMP 2

= disconnected jumper

= inserted jumper

BUS 2 1

230 Vac

BUS PL S+ S−

PS

230 Vac   S

Auxiliary transformer
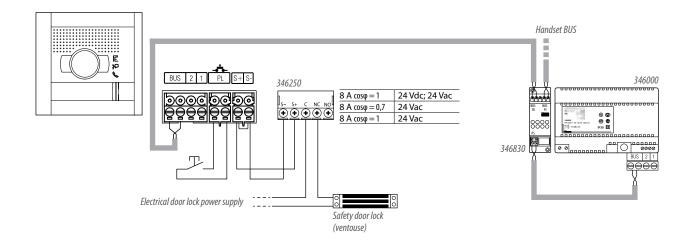
With SFERA CLASSIC 342150 audio speaker module

The C and NO contacts can be crossed by a maximum power of 8A (res) to 24 Vac/dc.

230 Vac

Power supply

Speaker module

346040

342150

BUS

BUS C NO

PS

230 Vac   S

Auxiliary transformer

SAFETY DOOR LOCK CONTROL (*VENTOUSE* TYPE)

8 A cosφ = 1	24 Vdc; 24 Vac
8 A cosφ = 0,7	24 Vac
8 A cosφ = 1	24 Vac

346250

Handset BUS

346000

346830

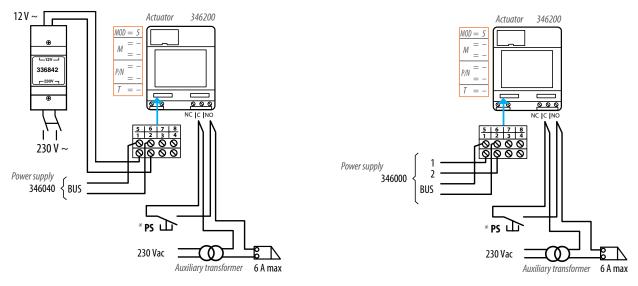Electrical door lock power supply

Safety door lock
(ventouse)

NOTE: The safety door lock remains closed when voltage is present. It opens when the voltage is interrupted.

Auxiliary services – Door lock control

DOOR LOCK CONTROL WITH GENERIC ACTUATOR, ITEM 346200

If you wish to open a door lock together with the one connected to the speaker module or for more security one does not want to control the door lock connected to the speaker module, the actuator item 346200 and an auxiliary transformer can be used.
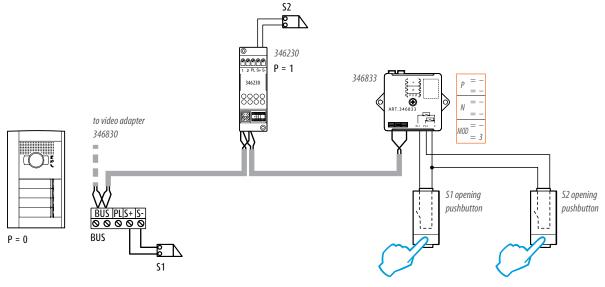
The actuator must be configured with MOD = 5 and is controlled using the appropriate handset pushbutton and the PS key. The NC and NO contact may be crossed by a maximum current of 6 A (resistive) - 2 A (inductive) – cos φ=0.5.

NOTE: the door lock control is not timed from PS pushbutton

DOOR LOCK CONTROL WITH INTERFACE, ITEM 346833

The floor call interface item 346833 also allows to open the door locks simply by pressing the appropriately connected pushbuttons.

MOD = 2	Door lock associated in P	PL1-C
MOD = 3	Door lock associated in P	PL1-C
	Door lock associated in P+1	PL2-C

Distance 346833 – pushbutton = max. 3 m

DOOR LOCK CONTROL WITH ACTUATORS, ITEM 346230 OR 346260

The use of actuators is indicated in the installations where you do not want to connect the electric door lock directly to the speaker module, but you want to realize, always with only 2 wires, an inaccessible wiring from the Handset, connecting the actuator that controls the door lock in a dark area from the ill-intentioned people.
In addition, it can be used to implement the "Door lock status control" function (with CISA ELETTRIKA door lock and accessory item 346240).

Actuator 346230   Actuator 346260

The wiring is all 2 WIRE type, including the electric door lock power supply.
The actuator is controlled by the door lock pushbutton of the Handsets.
The device must be configured.
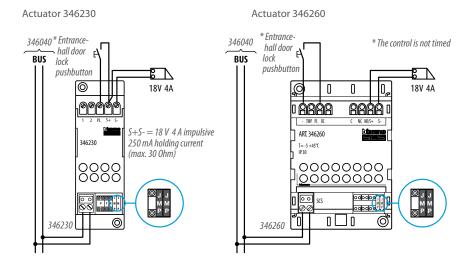
In installations with audio power supply 346040, the door lock is powered using transformer 336842 with output (12V ~).
The actuator is controlled by the door lock pushbutton of the Handsets.
The device must be configured.

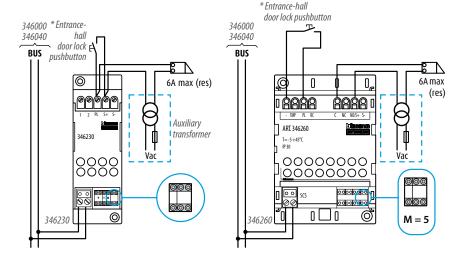*NOTE: in video systems the wiring must be executed in in-out on the BUS TK clamp of the video adapter or on the IN clamp of the audio/video node.*

346040 * Entrance-hall door lock pushbutton

BUS

18V 4A

1 2 PL S+ S-

346230

S+S- = 18 V 4 A impulsive 250 mA holding current (max. 30 Ohm)

346230

* Entrance-hall door lock pushbutton

346040

BUS

18V 4A

- TMP PL RC   C NC NO/S+ S-

ART. 346260

T= -5 +45°C
IP 30

SCS

346260

* The control is not timed

In case of critical electric door lock, it is possible to use an auxiliary transformer to supply the electric door lock. In this case, the actuator is connected to the 2 wires system in whichever point of the BUS.
The PL and S+ contacts can be crossed by one maximum power of 6 A (res).

NOTE: in video systems the wiring must be executed in in-out on the BUS TK clamp of the video adapter or on the IN clamp of the audio/video node.
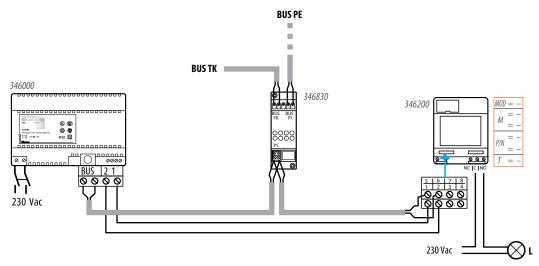
346000
346040 * Entrance-hall door lock pushbutton

BUS

6A max (res)

1 2 PL S+ S-

346230

Auxiliary transformer

Vac

346230

* Entrance-hall door lock pushbutton

346000
346040

BUS

6A max (res)

- TMP PL RC   C NC NO/S+ S-

ART. 346260

T= -5 +45°C
IP 30

SCS

346260

Vac

M = 5

Auxiliary services – Staircase light control

STAIRCASE LIGHTS CONTROL ON BUS WITH ACTUATOR, ITEM 346200
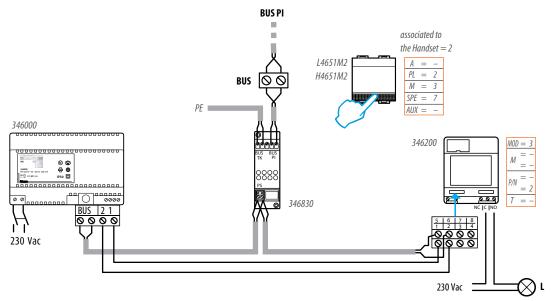
Installation on video systems

Wiring for door lock control to special pushbutton of Handsets and to staircase light pushbutton of Handsets.

STAIRCASE LIGHTS CONTROL ON BUS WITH SPECIAL CONTROL, ITEM L4651M2/H4651M2

Installation on video systems

Using the special control the switching of light is timed.

The special control acts on the actuator item 346200 configured to switch on the light. For further information see technical sheets of the special control and the actuator item 346200.

NOTE: in audio systems, the wiring of the special control can occur in any point of the system.
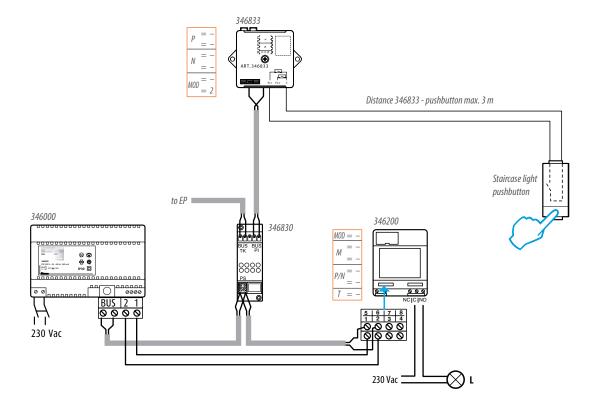
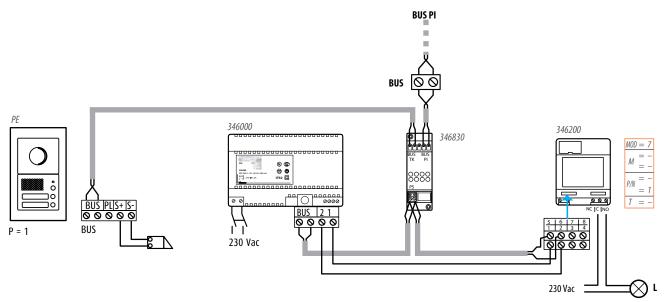# Auxiliary services - Staircase light control

STAIRCASE LIGHTS CONTROL WITH INTERFACE, ITEM 346833

The floor call interface item 346833 allows to switch on the staircase lights simply by pressing the connected pushbutton.

$MOD = 0$
$MOD = 1$ Staircase
$MOD = 2$ light
PL2-C

346833

P	= –
	= –
N	= –
	= –
MOD	= –
	= 2

ART. 346833

Distance 346833 - pushbutton max. 3 m

Staircase light pushbutton

to EP

346000

346830

BUS TK   BUS PI

PS

346200

MOD	= –
M	= –
	= –
P/N	= –
	= –
T	= –

NC │C│NO

BUS │2│1

230 Vac

230 Vac   L

LIGHT CONTROL FOR LIGHTING CAMERA FIELD OF VIEW

BUS PI

BUS

PE

346000

346830

BUS TK   BUS PI

PS

346200

MOD	= 7
M	= –
	= –
P/N	= –
	= 1
T	= –

NC │C│NO

BUS │PL│S+│S-

BUS

P = 1

BUS │2│1

230 Vac

230 Vac   L

Closing of contact upon reception of a call from the EP configured with P=1.
The contact opens again when the call is terminated or after 30s (if there is no answer).