Art. 6778 7" hands free colour display videophone

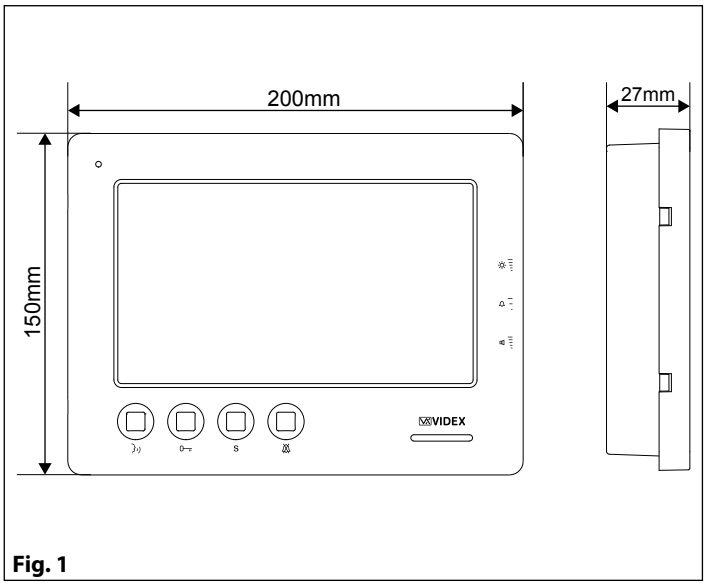


Fig. 1

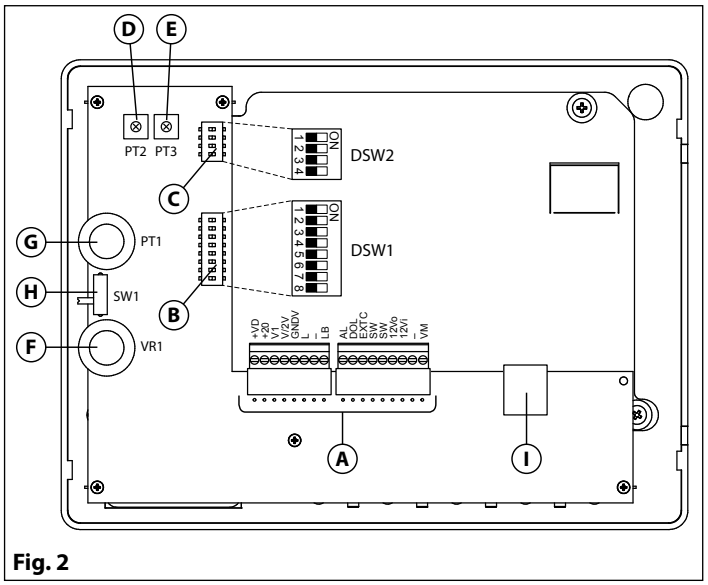


Fig. 2

ART. 6778 VX2200 6700 SERIES HANDS FREE VIDEOPHONE FOR SYSTEMS USING COMPOSITE VIDEO SIGNAL (COAX) OR BALANCED (TWISTED PAIR)

Surface mount hands free intelligent videophone incorporating a 7" Hi-Res full colour active matrix LCD monitor, with "answer/camera recall", "door open/concierge call", "privacy" and one "service" buttons plus 3 LED's signalling privacy service enabled, door open and activated functions.
Programmable settings: video mode (coax or balanced), privacy duration, melody and number of rings.
Adjustments: call tone volume (3 levels), speech volume, picture hue, contrast and brightness.
Also includes a local bell function.

LEGEND

- (A) Connection terminals
- (B) 8 Way dip switch bank to set videophone address
- (C) 4 Way dip switch bank to set video mode
- (D) Contrast adjustment trimmer
- (E) Hue adjustment trimmer
- (F) Speech volume control
- (G) Brightness control
- (H) Call tone volume switch
- (I) RJ-45 connector

PUSH BUTTON OPERATION DURING STANDBY (FIG. 1)	
S	**Service button** When pressed, shorts terminal **"SW"** to **"SW"** (max 24Vdc 50mA).
	Privacy service Press to enable the privacy service. The LED " " turns on. The service is deactivated by pressing again the same button or when the programmed time expires.
	Call the concierge Press to book a call to the digital concierge if installed on the system.
	Camera recall Press a number of times equal to the ID value of the door panel to switch ON. The LED " " turns on. When the connection is made, press again to end the call.

PUSH BUTTON OPERATION DURING A CALL (FIG. 1)	
S	**Service button** When pressed, shorts terminal **"SW"** to **"SW"** (max 24Vdc 50mA).
	Reject the call During an incoming call, press this button to reject the call. The visitor doesn't receive any warning of the call rejected.
	Open the door Press to activate the door open relay of the outdoor unit and end the connection. The unit emits 5 "beeps" and the" " LED will flash, then returns to stand-by mode.
	Answer a call Press to answer the call and start the conversation. The" " LED turns on.

PUSH BUTTON OPERATIONS DURING A CONVERSATION (FIG. 1)		
S	**Service button** When pressed, shorts terminal **"SW"** to **"SW"** (max 24Vdc 50mA).	
0	**Open the door** Press to activate the door open relay of the outdoor unit and end the connection after 10 seconds. The unit emits 5 "beeps" and the")))" LED will flash, then returns to stand-by mode.	
)))	**End conversation** Press to end a call. The")))" LED turns off.	**Simplex button.** Pressing and holding the button for more than 3 seconds will switch the videomonitor into SIMPLEX speech mode. Press and hold the button to speak to the caller ( ))) LED will flash rapidly), release the button to listen ( ))) LED will flash slowly). If the button is not pressed for 10 seconds the videomonitor will switch off. The videomonitor will revert to duplex speech when another call is made.

LEDS (FIG. 1)	
LED	**Privacy on LED** It illuminates when the privacy service is enabled, when pressing the service button or during programming mode.
LED 0	**Generic use LED** It is controlled from the terminal "DOL". Normally used to signal the door status (open or closed).
LED)))	**ON LED** It illuminates when the videophone is switched ON or flashes quickly in "Push To Talk" mode.

CONTROLS (FIG. 1)	
VR1	**Speech volume control** (sliding wheel).
SW1	**Call tone volume switch** (3 levels).
PT1	**Brightness control** (sliding wheel).
PT2	**Hue adjustment trimmer** (rotate left to increase or right to decrease).
PT3	**Contrast adjustment trimmer*** (rotate left to increase or right to decrease). *Not available in some LCD versions.

PROGRAMMING

All programming options are available only when the system is in stand-by.

PRIVACY SERVICE DURATION

1. Press and keep pressed " " button for 10 seconds to enter privacy service duration programming mode: the " " LED turns on and the unit emits a "beep";
2. Press " " button as many times as required. Each press is equal to 15 minutes: the unit emits a "beep" every time the button is pressed. **I.E.**: press 4 times for 1 hour, 12 for 3 hours. Default: infinite. Max value: 20 hours. To program infinite privacy time don't press any buttons;
3. Wait for some seconds: the " " LED turns off and the unit emits a "beep" that confirms the new setting is properly stored;
4. The unit returns to stand-by mode.

MELODY TYPE

1. Press and keep pressed " 0 " button for 10 seconds to enter melody type programming mode: the unit plays the current melody and then a "beep";
2. After the "beep" press " 0 " buttons to select the next melody: a new melody will play for some seconds then the unit emits a "beep". There are 9 melodies available. **Note:** press " 0 " buttons only after the melody is over and the unit emits the "beep";
3. When desired melody is playing, wait for some seconds: the unit completes the melody and emits a "beep", then the unit emits a double "beep" that confirms the new setting is properly stored;
4. The unit returns to stand-by mode.

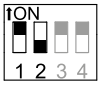
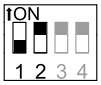
Note: To set the melody it is required that the videophone is connected in a system where the +20Vdc voltage from Art. 893N1 is always enabled.

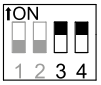
NUMBERS OF RINGS

1. Press and keep pressed ")))" button for 10 seconds to enter numbers of rings programming mode: the ")))" LED turns on and the unit emits a "beep";
2. Press ")))" button as many rings as required: the unit emits a "beep" every time the button is pressed. **I.E.**: press 3 times for 3 rings. Default value: 6 rings. Max value: 9 rings;
3. Wait for some seconds: the ")))" LED turns off and the unit emits a "beep" that confirms the new setting is properly stored;
4. The unit returns to stand-by mode.

VIDEO MODE SW2

The video mode setup is carried out by the 4 way Dip-Switch accessible from the rear side of the videophone.
Switches 3 and 4 adjust the video signal impedance. When using more than one videomonitor in parallel (without a video splitter) put both switches in the OFF position on all but the last videomonitor (end of line).

VIDEO MODE	
Switches 1,2	**Mode**
	Coax
	Balanced

75 OHM VIDEO TERMINATION	
Switches 3,4	**Termination**
	Enabled
	Disabled

VIDEOMONITOR/INTERCOM ADDRESS, VIDEO MODE AND TERMINATION SETUP DSW1

Each intercom is addressed in binary (PHONE ID) using the 8 way dipswitches located on the rear of the unit. Each switch corresponds to one bit which can have a value 0 (OFF) or 1 (ON). Each bit corresponds to a decimal weight depending on the position: Switch 1 = decimal 1, 2=2, 3=4, 4=8, 5=16, 6=32, 7=64, 8=128. **I.E.** to set the address 37, put switches 1, 3 and 6 on (1+4+32=37).

SWITCHES								DECIMAL WEIGHT								ADDRESS
8	**7**	**6**	**5**	**4**	**3**	**2**	**1**	**128**	**64**	**32**	**16**	**8**	**4**	**2**	**1**	
OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	0	0	0	0	0	0	0	1	1
OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	0	0	0	0	0	0	1	0	2
OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	0	0	0	0	0	0	1	1	3
OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	0	0	0	0	0	1	0	0	4
OFF	OFF	ON	OFF	OFF	ON	OFF	ON	0	0	1	0	0	1	0	1	37
ON	OFF	ON	ON	OFF	ON	OFF	OFF	1	0	1	1	0	1	0	0	180

ART. 6778 - SIGNALS		
+VD	12Vdc output to supply coax video distributor Art. 894N	
+20	Video power supply 17÷20Vdc	
V1	Balanced video signal V1 sync. (balanced video signal mode)	
V/V2	Balanced video signal V2 sync. (balanced video signal mode) Composite video signal (coax video signal mode)	
GNDV	Video power supply ground reference	
L	BUS line	
–	BUS line ground reference	
LB	Local bell input (active low)	
AL	Alarm input (active low)	
DOL	12Vdc input to supply Aux LED	
EXTC	Call tone output for extension sounder (Art. 512A)	
SW	Service button connection	**Max 24 Vdc 50mA**
SW	Service button connection	
12Vo	+12Vdc stabilized output	
12Vi	Stand-by +12Vdc power supply input	
–	Power supply ground input / coax video ground	
VM	Auxiliary input 300mA 12Vdc for video memory (Art. 6778/VM only). Suggested PSU: Art. 323/12 or Art. AMR2-12.	

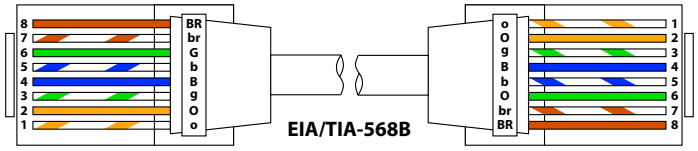
Note: for installations including more than 30 video phones Art. 6778 you must add one power supply Art. 893N1every 30 video phones in order to power +20V.

TECHNICAL SPECIFICATION

Working Voltage: 17÷20Vdc
Power Consumption: Standby: 10mA
During a conversation: 250mA
Max: 400mA
Working Temperature: -10°C +50°C

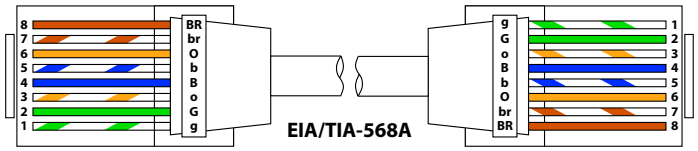
USING RJ-45 PLUG TO CONNECT THE VIDEOPHONE

EIA/TIA-568B



RJ-45 pin	VX2200 Signal
1 and **2 (white-orange / orange)**	**L**
3 and **4 (white-green / blue)**	**–**
5 and **6 (white-blue / green)**	**+**
7 (white-brown)	**V1**
8 (brown)	**V2**

EIA/TIA-568A



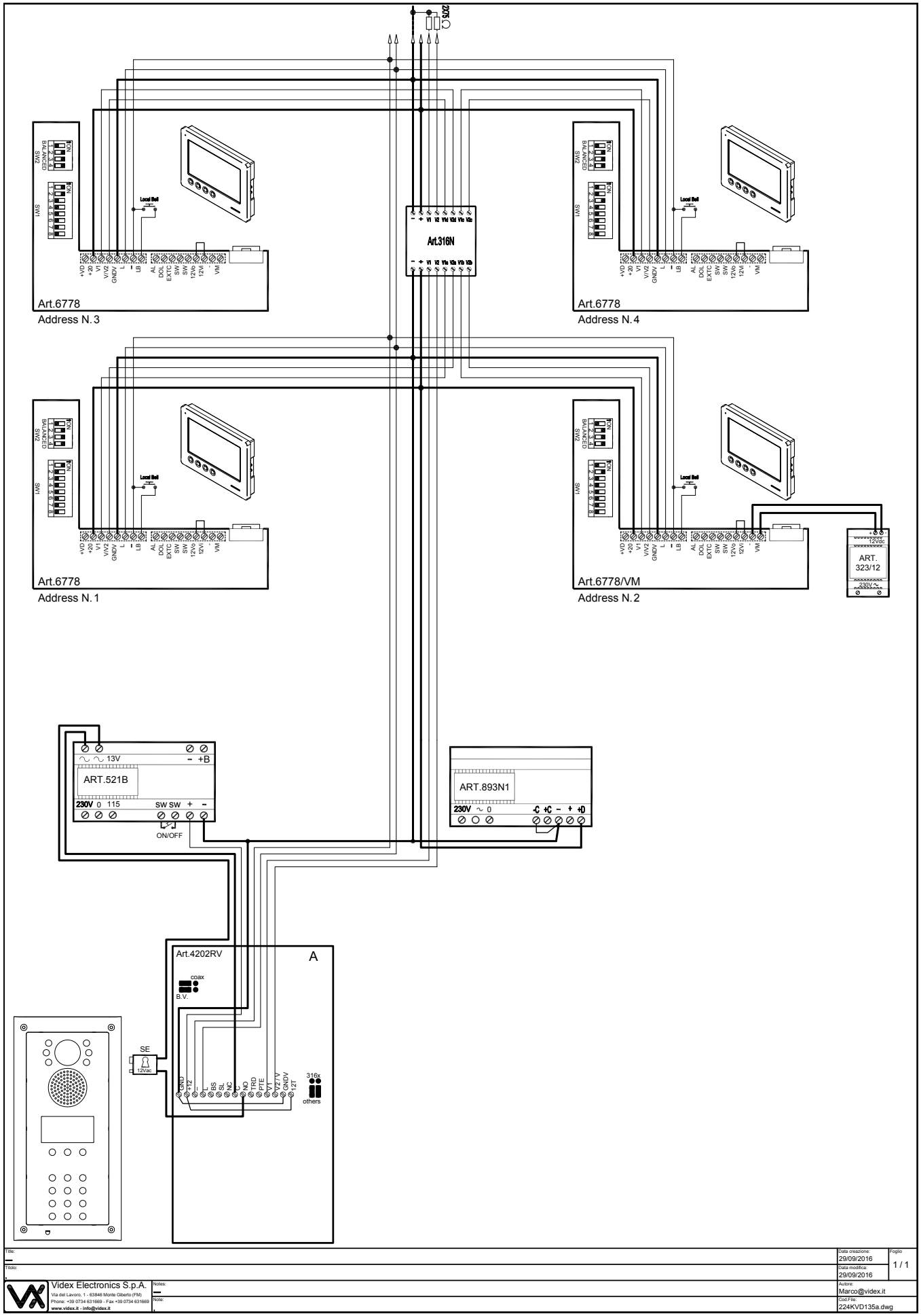
RJ-45 pin	VX2200 Signal
1 and **2 (white-green / green)**	**L**
3 and **4 (white-orange / blue)**	**–**
5 and **6 (white-blue / orange)**	**+**
7 (white-brown)	**V1**
8 (brown)	**V2**

⚠ **NOTE: DO NOT USE CROSS OVER CABLES.**

⚠ **IMPORTANT NOTE: SOLID COPPER CABLES MUST BE USED. COPPER COATED STEEL (CCS) AND COPPER COATED ALUMINIUM (CCA) CAN NOT BE USED ON THE SYSTEM.**

MEMORY BOARD

This device is also available in the version with memory board (Art. 6778/VM).
If you have that version, please refer to the **"6200, 6300, 6400 and 6700 Series Memory Board"** user manual for installation and use. The manual is available for download at the following link:
https://www.dropbox.com/s/492p16btyqhxmpu/66250782-EN.pdf?dl=0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Address N. 3
Art.316N
Art.6778
Address N. 4
Art.6778
Address N. 1
Art.6778/VM
Address N. 2
ART.
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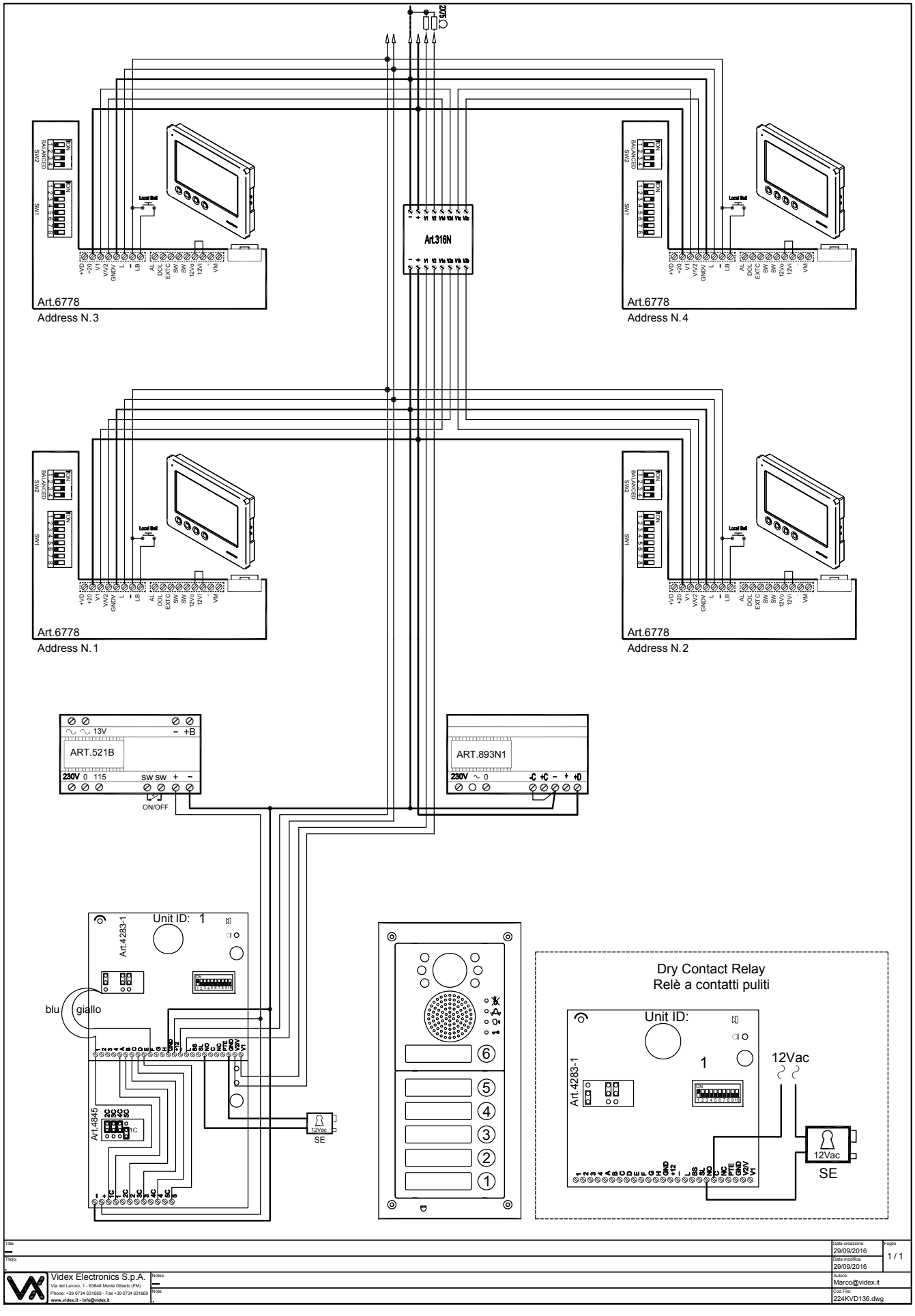
Art.4202RV
A
coax
B.V.
SE
12Vac
316x
others



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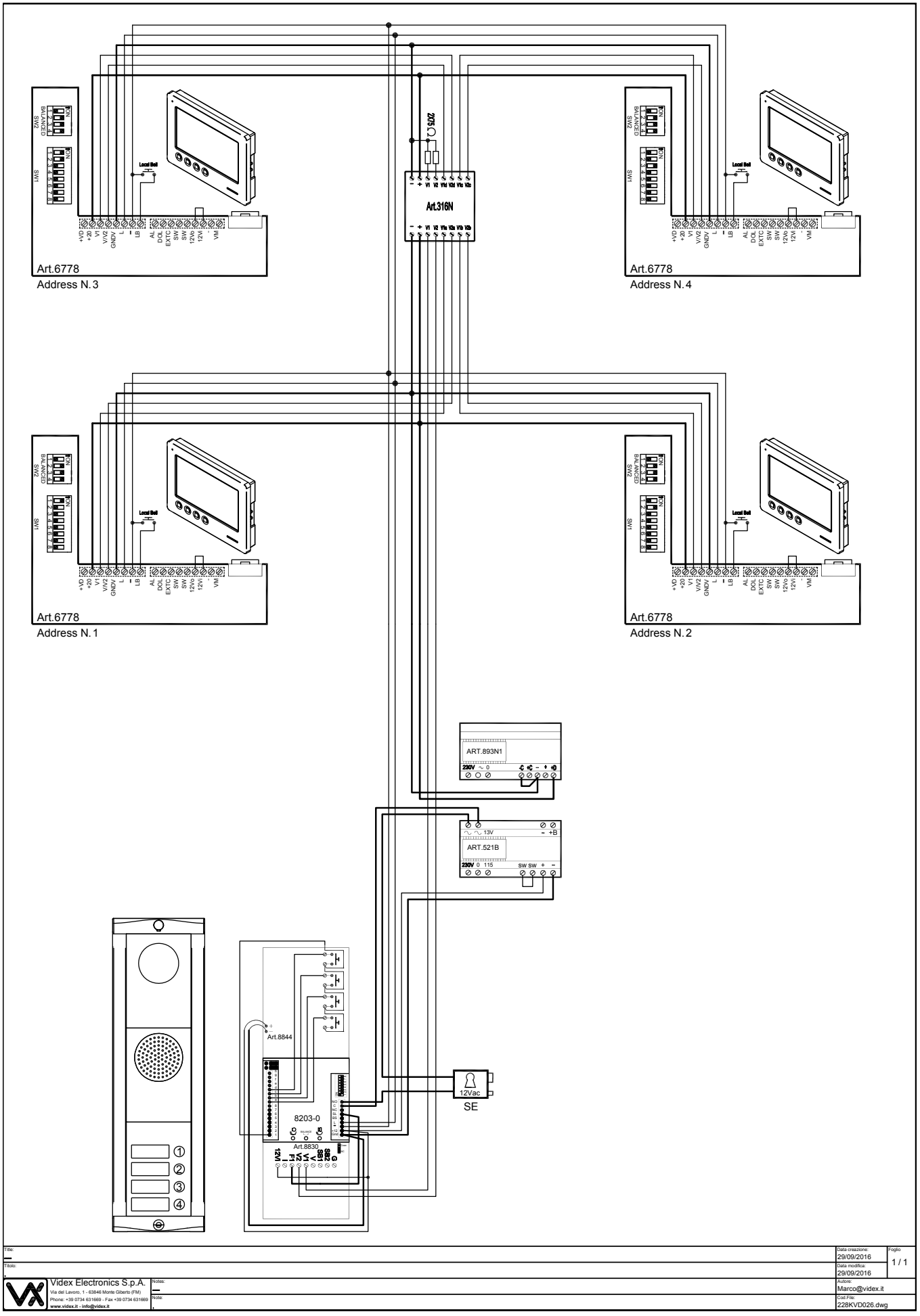

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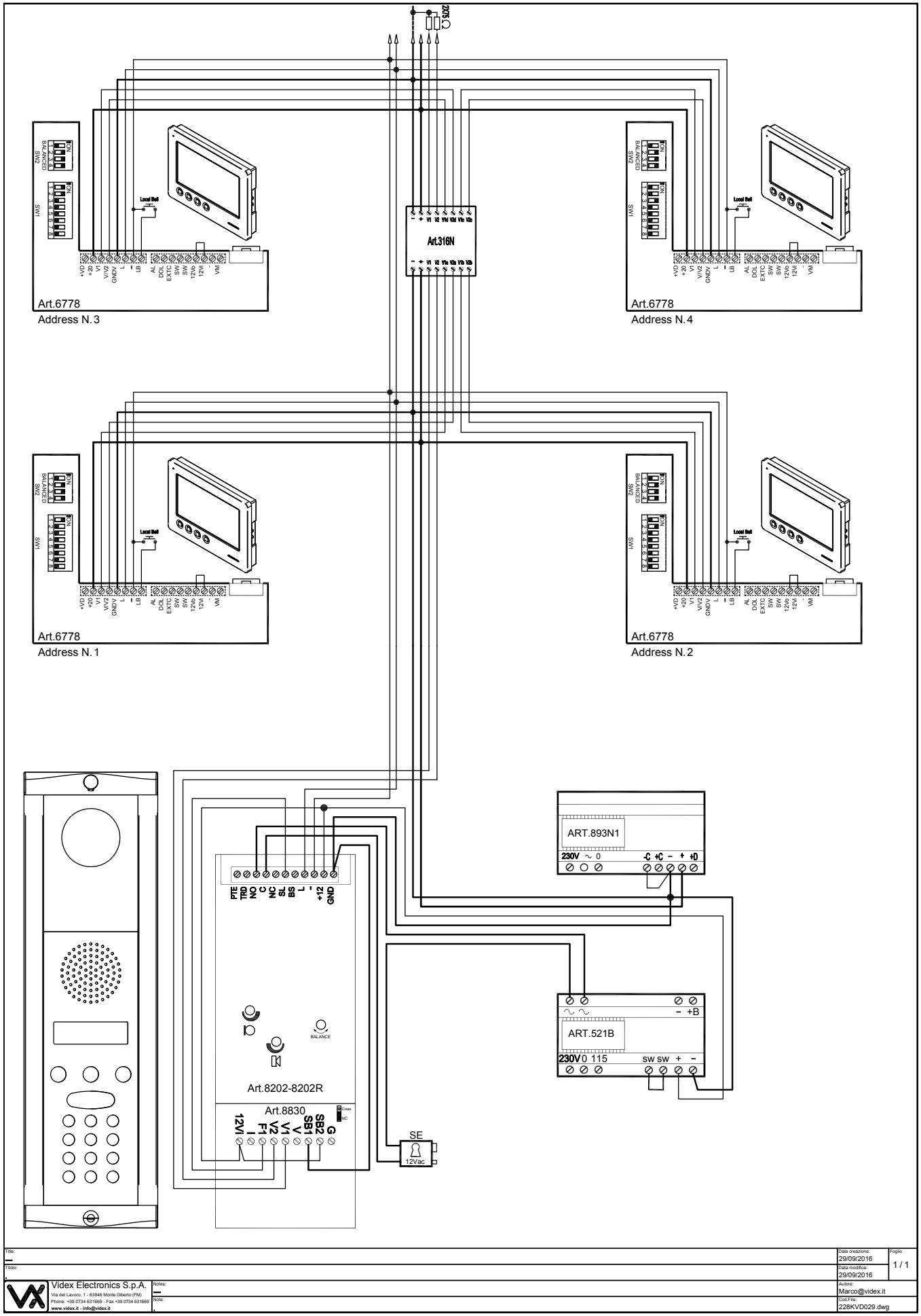
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Art.6778
Address N. 4
Art.6778
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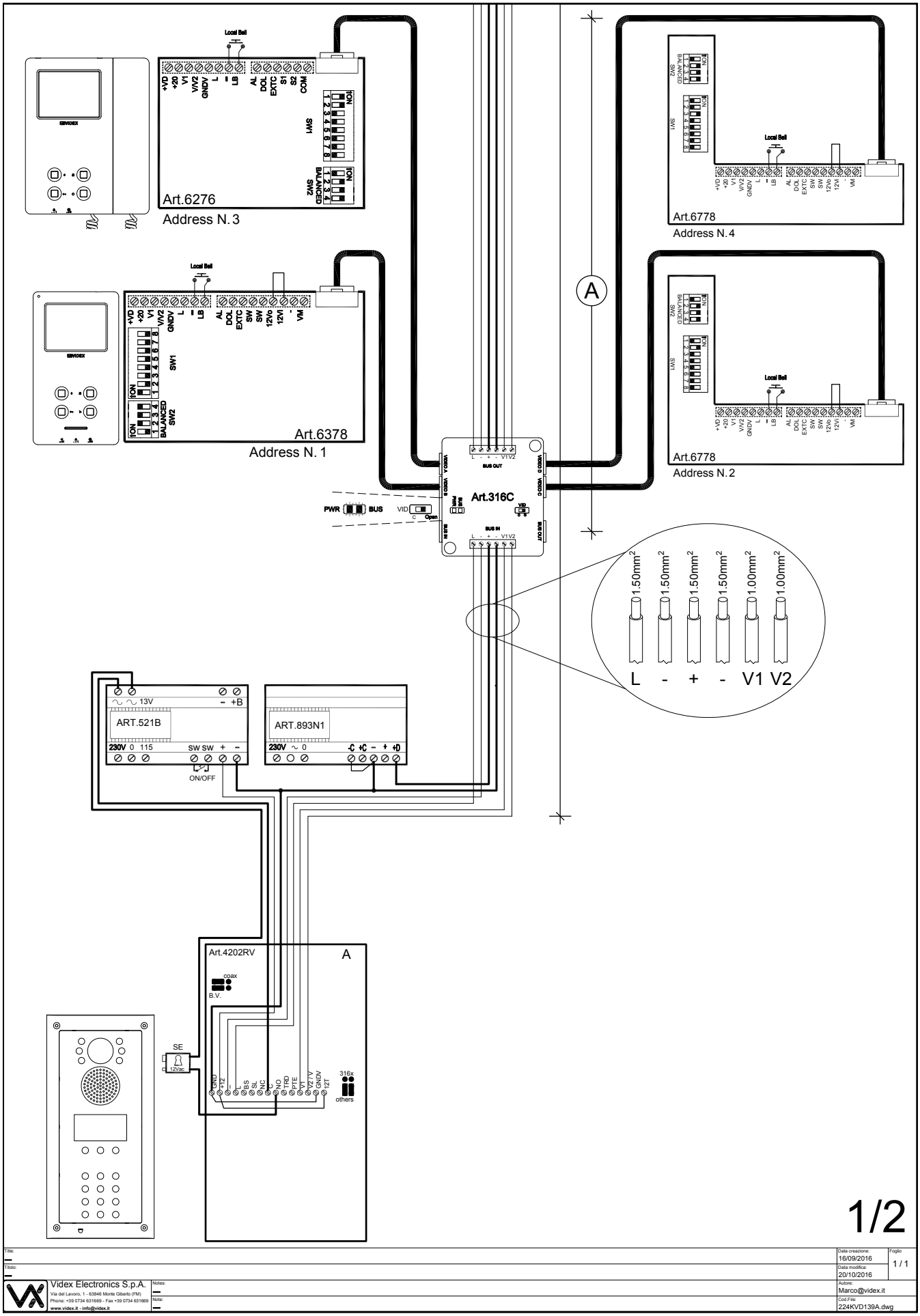
ART.521B
Art.8202-8202R
Art.8830
BALANCE
SE
12Vac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L - + - V1 V2
ART.521B
13V
230V 0 115
ON/OFF
ART.893N1
230V 0
Art.4202RV
coax
B.V.
SE
12Vac
316x
others
A
1/2
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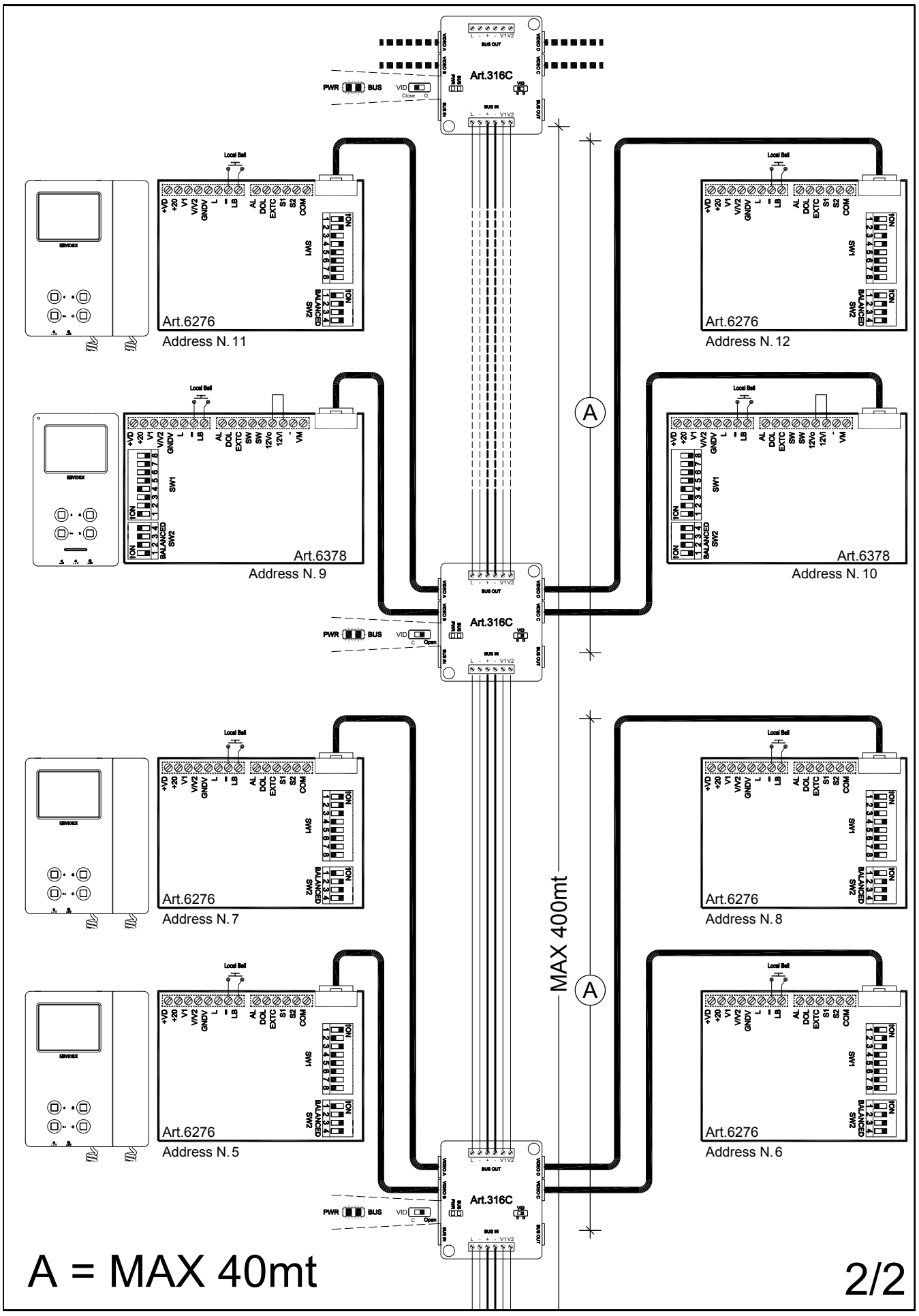
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Art.6276
Address N. 11
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Art.6276
Address N. 7
Art.6276
Address N. 8
MAX 400mt
Art.6276
Address N. 5
Art.6276
Address N. 6
Art.316C
A = MAX 40mt
2/2

6700 Series Wall mounting instructions

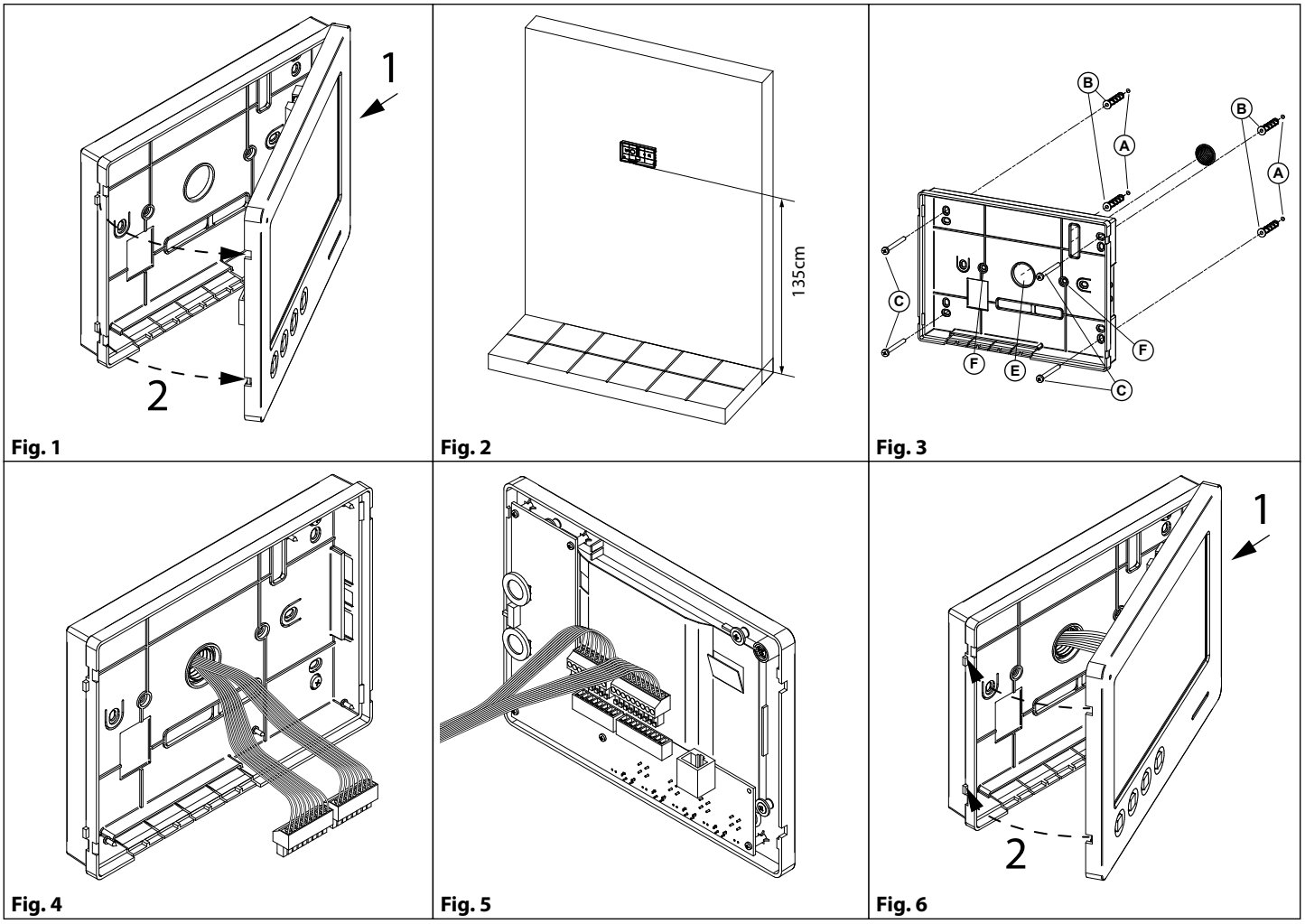

Fig. 1 **Fig. 2** **Fig. 3**

Fig. 4 **Fig. 5** **Fig. 6**

1. In order to install the videophone, it is necessary to remove the cover, which contains all the electronics, from the base: press lightly on the right part of the videophone and simultaneously pulling outwards the left part as shown in **Fig. 1**.
2. Put the base of the unit on the wall at approx 135cm from the finished floor to match the points for the fixing holes **"A"** (**Fig. 2**) remembering that the wires **"D"** (**Fig. 3**) must be fed through the large hole **"E"** (**Fig. 3**). If you use the flush mounting box 503, embed it into the wall vertically at approx. 140cm from the finished floor and the base.
3. Following **Fig. 3**, make the holes **"A"**, insert the wall plugs **"B"** and fix the base with the screws **"C"** feeding the wires **"D"** through the hole **"E"**. If you have used the box 503, fix the base to the wall through the holes **"F"** using the screws **"C"**.
4. As shown in **Fig. 4**, connect the wires to the removable terminals following the provided installation diagram. Connect the terminal blocks to the electronics contained in the cover as shown in **Fig. 5**. Test system before closing.
   Contrast and hue trimmers can be adjusted only if the videophone is open. To activate the display and see changes use the "Camera Recall" function by pressing) button**.**
   Note: while testing the system, it is advisable to hold the cover with your hand.
5. Once testing is complete and all the necessary adjustments are made, close the unit as shown in **Fig. 6**: first hook in the right part and then the left part until you hear a click.

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