

INSTALLATION INSTRUCTIONS

- **The cable runs** of intercom and video intercom installations must be kept separate from the mains or any other electrical installation as required by the **International Safety Standards** and the entire installation must be realized in compliance with the safety rules in force in any specific Country.
- It is necessary to provide a disconnecting and safety switch before the power supply. Use a single general switch in case of several power supplies (also in multiple entrance).
- Before connecting the power supply make sure that its rating data corresponds to this of the mains.
- For electromagnetic reasons, all service modules must be installed near their power supply.

Wires

- 1) For the correct operation of the intercom and videointercom system you must choose the correct type of cable.
- 2) Wires must be dimensioned according to the distance of the different devices and their current consumption.
- 3) Do not connect wires in parallel to reach the required cross-section (for example multi-pair telephone cables). Only use a single wire with suitable cross-section. When using multi-core cables you must select them with low parasite parameters (low capacitance per meter, low inductance over Ohm).
- 4) If the installation includes additional power supplies you must place them near the device to be powered.

Background noise

To avoid possible background noise over the speech line, it is advisable:

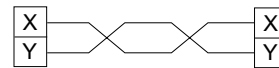
- 5) not to lay intercom or telephone cables in the same runaway as the wires used to power alternate current loads;
- 6) to avoid using the same multi-core cable to transmit audio signals and alternate current power supplies (lamps, amplified external door stations, electrical door locks). Always use separate wires for alternate current power supplies;
- 7) for name-plate lamps, to use an additional 12Vac transformer (PRS210 type) with suitable power (consumption is 75mA for each lamp) with 2 power supply wires separate from audio wires;
- 8) in case of long distances between the external door station and the last intercom, to place the power supply near by the external door station.

WIRE CROSS SECTION

Distance		Article terminals					
		1.3 (intercom) 10.4.1.C- (videointercom)			F.H.A.S. — (wires in bold face type)		
m.	feet	mm ² S	mm Ø	AWG	mm ² S	mm Ø	AWG
50	165	0.5	0.8	20	0.75	1	18
100	330	0.75	1	18	1	1.2	16
200	660	1	1.2	16	2	1.4	14

VIDEO SIGNAL DISTRIBUTION WITH TWISTED PAIR

If the distance between the camera and the last video intercom in the system is lower than 200 m, the connection can be made with 2x0.35mm² wires (Ø=0.6mm; AWG22) instead of the coaxial cable. For distances from 100m to 200m a twisted pair must be used.

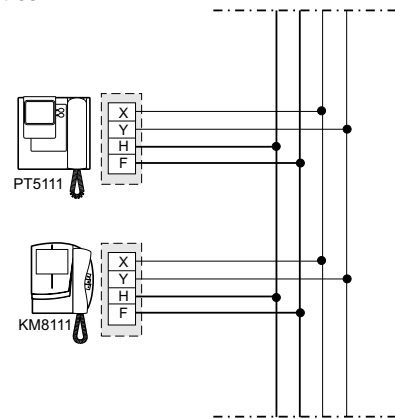


For the connection of the video signal you can choose from:

- connection with junction box
- serial connection (input and output)
- connection with floor distributors

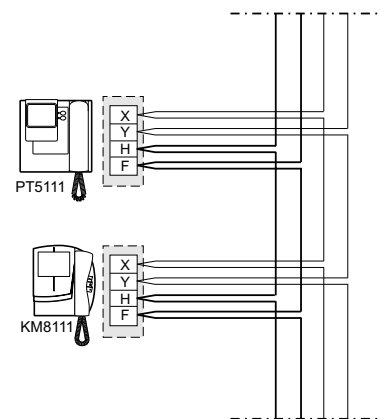
CONNECTION WITH JUNCTION BOX

All wires are distributed in the floor junction box. Due to the signal loss introduced by each connection, the maximum number of video intercoms that can be connected in serial mode is 20. Two 75Ω resistances must be inserted between X and F and between Y and F in the last video intercom. The maximum distance between the video intercoms and the connector block is 2.5 metres.



SERIAL CONNECTION

Connections are made on the video intercom brackets, and not in the junction box. Due to the signal loss introduced by each connection, the maximum number of video intercoms that can be connected in serial mode is 20. Two 75Ω resistances must be inserted between X and F and between Y and F in the last video intercom.



INSTALLATION INSTRUCTIONS

CONNECTION WITH FLOOR DISTRIBUTORS

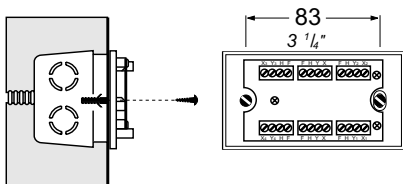
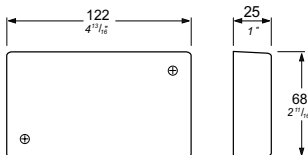
The video wires of each video intercom are insulated from the riser. Connections are made on the **DV2D** or **DV4D** floor video signal distributor box.

DV2D-DV4D. FLOOR VIDEO SIGNAL DISTRIBUTORS.

They allow for the distribution of the video signal taken from the riser on 2 or 4 outputs. They can be installed on the wall on a wall box, with expansion plugs or it can be placed in the junction box.

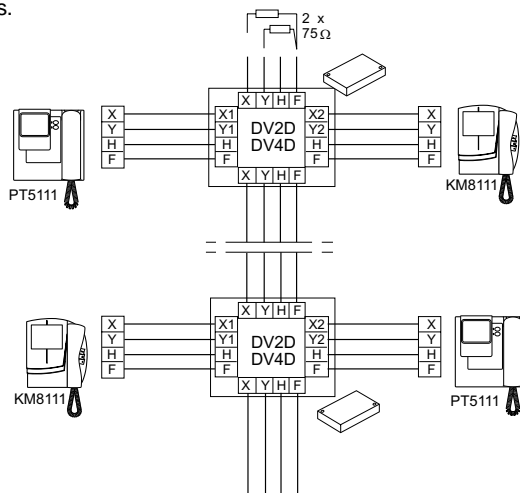
Technical data

Power supply	15÷21Vdc
Operating current	60mA
Max. input video signal	2Vpp
Insertion loss	0.8dB
Bandwidth	>5MHz



Connection of the video signal on a single riser

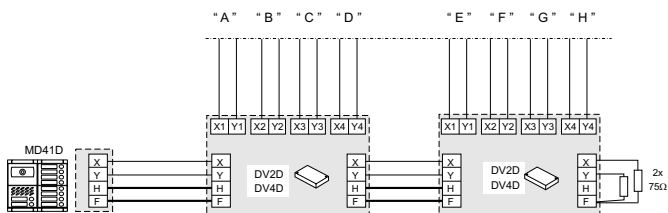
Terminals X and Y of the last distributor must be terminated with the 75Ω resistances supplied with the article. It is not necessary to terminate the unused outputs.



Connection of the video signal with distribution on several risers

In video systems with different risers you must use 1 or more video distributors art. **DV2D** or **DV4D**.

Terminals X and Y of the last distributor must be terminated with the 75Ω resistances supplied with the article. It is not necessary to terminate the unused outputs.



Example of connection on 8 risers

WORKING INSTRUCTIONS

Check that the connections of the system are carried out correctly. Put the system in use by connecting the power supply to the mains. By pushing a call button from the external push-button panel, it activates the bell of the corresponding video intercom and it activates the system for a time of about 100 seconds. The images appear on the video intercom a few seconds after the call.

If in the meantime another call occurs, the video intercom shuts itself OFF and connects the last call. The system switches OFF automatically after 100 sec.

In case more calls occur simultaneously, a protection circuit against overloading and short circuiting is provided to disable the timer and therefore to shut OFF the system.

In the absence of calls from the door station, from any video intercom (if provided in the system) it is possible to control the entrance by pressing the button (control switch ON).

To work the electric door lock release press the button from video intercoms.

In the two or more entrance systems all the audio and video communications and door lock release, from one entrance to the other, are automatically switched with the call or the control switch ON.

In these systems the control switch ON from the video intercoms can interrupt a running communication, for this reason it is advisable to interrupt, by means of a relay. This function when the video system is active, giving the priority of the communication to the door stations for some examples see pages 251 and 252.

Adjustments

All the regulations are carried out in the factory. For possible corrections the intervention of a specialized technician is advisable. The Contrast and Brightness adjustments, being subject to the environmental lighting conditions, are accessible from the under-neath by means of a screw driver.

