

# SYSTEM 200: FLEXIBLE & COST EFFECTIVE

The outstanding feature of the BPT System 200 is its great versatility. With just 5 wires + coaxial cable (or twisted pair) for connecting video receivers, a whole series of additional functions are available for improved system performance. With a wide range of entry panels and receivers to choose from, System 200 will meet the demands of most applications where price and functionality are key.

SELF-CONNECTION & SEQUENTIAL SWITCHING BETWEEN CAMERAS

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FLEXIBLE CABLE REQUIREMENTS

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INTERCOM FUNCTIONALITY

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CONVERSATION & VIDEO PRIVACY

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ENTRY PANEL PREVIEW

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DOOR LOCK RELEASE WITH ENTRANCE SELECTION

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# CABLES

The 200 system by BPT guarantees excellent performance and signal quality on a variety of cable types. Unlike many other technologies, System 200 operates on direct current, which removes the issue of noise on the audio line usually associated with the use of alternating current. For video systems, high specification VCM/60 and VCM/130 custom cable from Bpt is available to optimise system performance.

## VCM/60 VIDEO CABLE BY BPT (OPTIMUM PERFORMANCE)

Cable comprising Multi Core (5 x Cores and Co-axial)

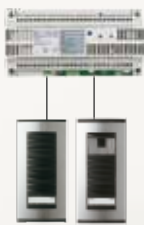
|        |   | Colour of wire | Thickness            | Type of cable |
|--------|---|----------------|----------------------|---------------|
| VCM/60 |  | Green          | 1.00 mm <sup>2</sup> | Power supply  |
|        |   | Red            | 1.00 mm <sup>2</sup> |               |
|        |   | Purple         | 0.5 mm <sup>2</sup>  | Audio & Data  |
|        |   | Pink           | 0.5 mm <sup>2</sup>  |               |
|        |   | Light Blue     | 0.5 mm <sup>2</sup>  |               |
|        |   | Co-Axial       | RG59                 | Video         |

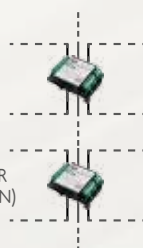
## VCM/130 VIDEO CABLE BY BPT (OPTIMUM PERFORMANCE)

Cable comprising Multi Core (12 x Cores and Co-axial)

|         |   | Colour of wire | Thickness            | Type of cable           |
|---------|---|----------------|----------------------|-------------------------|
| VCM/130 |  | Blue           | 1.50 mm <sup>2</sup> | Power and lock releases |
|         |   | Brown          | 1.00 mm <sup>2</sup> |                         |
|         |   | Grey           | 1.00 mm <sup>2</sup> |                         |
|         |   | Black          | 1.00 mm <sup>2</sup> |                         |
|         |   | Green          | 1.00 mm <sup>2</sup> |                         |
|         |   | Yellow         | 1.00 mm <sup>2</sup> |                         |
|         |   | Red            | 0.75 mm <sup>2</sup> | Audio & commands        |
|         |   | Purple         | 0.50 mm <sup>2</sup> |                         |
|         |   | Orange         | 0.50 mm <sup>2</sup> |                         |
|         |   | Pink           | 0.50 mm <sup>2</sup> |                         |
|         |   | Light Blue     | 0.50 mm <sup>2</sup> |                         |
|         |   | White          | 0.50 mm <sup>2</sup> |                         |
|         |   | Co-Axial       | RG59                 |                         |

## RECOMMENDED WIRES FOR EACH TYPE OF CONNECTION

| TYPE OF CONNECTION  | RECOMMENDED WIRE   |
|---|--|
| <p>Connection between entry panels and power supply modules</p> <p>NB: Up to 10 entry panels can be used per system using SI/200 or VSI/200 units</p> <p>VA/200 or A/200</p> <p>HSC/IST and HSV/IST</p>  | <p>Audio Systems</p> <ul style="list-style-type: none"> <li>8 Cores + n (call lines)</li> </ul> <p>Video Systems</p> <ul style="list-style-type: none"> <li>VCM/130</li> <li>12 Cores + n (call lines) + Co-axial</li> </ul> |

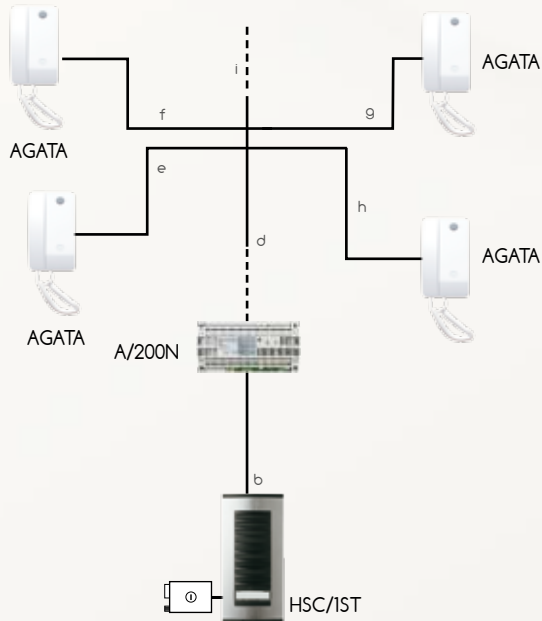
| TYPE OF CONNECTION  | RECOMMENDED WIRE   |
|---|--|
| <p>Distribution in riser.</p> <p>NB: No specialist distribution unit is required for audio systems</p> <p>VAV/400P</p> <p>VDX/400 (FOR TWISTED PAIR VIDEO DISTRIBUTION)</p>  | <p>Audio Systems</p> <ul style="list-style-type: none"> <li>4 Cores + n (call lines)</li> </ul> <p>Video Systems</p> <ul style="list-style-type: none"> <li>VCM/60</li> <li>5 Cores + n (call lines) + Co-axial</li> </ul> |

# DISTANCES

The 200 system by BPT guarantees excellent performance and signal quality on a variety of cable types. Distances shown are the same for all entry panels and monitors types and represent expected working capability.

For systems using alternative specification cables, expected working distance may be less than shown. (dependent on situation)

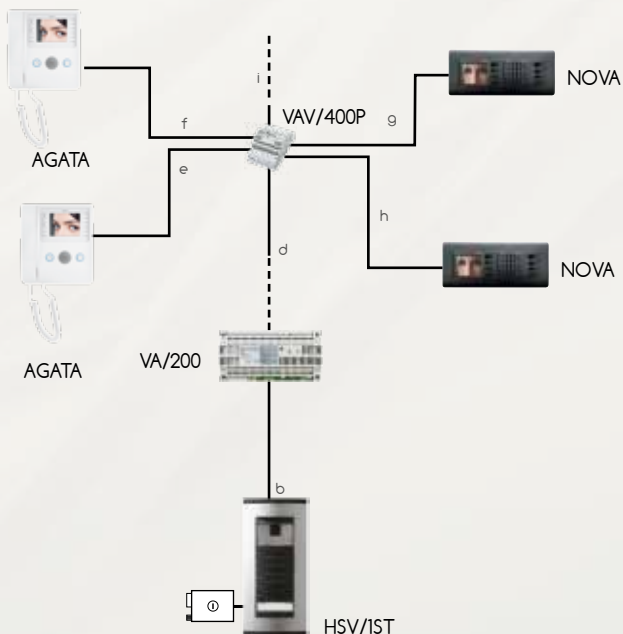
## STANDARD AUDIO SYSTEM



|                            | MAXIMUM DISTANCE |
|----------------------------|------------------|
|                            | 250m             |
|                            | 100m             |
| Q=Tot amount of cable run* | 2000m            |

(\*)The total length of the cable to be laid is based on the connections between the power supply and all the internal receivers + the longest branch (a, b or c) between the power supply module and the entry panel.  
Total length of cable=(a) or (b) or (c)+d+e+f+g+h+i+...

## STANDARD VIDEO SYSTEM



|                            | MAX. DIST. VCM/130 |
|----------------------------|--------------------|
|                            | 250m               |
|                            | 100m               |
| Q=Tot amount of cable run* | 2000m              |

(\*)The total length of the cable to be laid is based on the connections between the power supply and all the internal receivers + the longest branch (a, b or c) between the power supply module and the entry panel.  
Total length of cable=(a) or (b) or (c)+d+e+f+g+h+i+...

# SYSTEM COMPONENTS

## POWER SUPPLY MODULES



### VA/200

Supply voltage: 230V 50/60 Hz.

Self-resetting electric safety switch.

Rated power: 60VA. Output voltages: 17.5V DC stabilised (0.9A for continuous service and 0.6A for intermittent service) for monitor, entry panel and accessories. 12V DC stabilised (400mA for continuous service) 12V DC (0.5A for intermittent service) for electrical door lock. Two differential call note generators, controlling up to 3 internal units. Installation activation time 30 secs. If the handset is lifted during this interval, the activation time is extended by 30 to a maximum of 90 secs. (adjustable). • Electrical door lock activation time with time interval adjustment of 1 to 15 secs. Compatible with both direct and alternate current-operated electrical door lock (12V DC, AC, 1A). • Stair light actuator output: type VLS/101. • Working temperature range: from 0 °C to +35 °C. Dimensions: 12 DIN units, low profile module,



### A/200N

Audio entry power supply and control module for System 200

Plastic housing Protection rating IP30. 4 DIN low profile module

Clean contact output relay. Differential call note option. Output for stair light control actuator. 12v DC input for battery power. Power supply 230v, 50Hz, 15VA. Output Voltage 11V DC, stabilised 150mA (300mA peak). 14V AC, 650mA (1A intermittent current)



### VAS/100.30

Supplementary power module

Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 8 low-profile DIN modules. Protection rating IP30. Electronic circuit-breaker for protection against overloads/short-circuits. Complete with output terminals for power supply to devices (17.5 VDC - 1.7A max). Powered by mains circuit 230 VAC 50/60 Hz. If used as the only power supply module for the system, RFID and DNA modules can not be used for access control.



## VIDEO SIGNAL DISTRIBUTORS



### VAV/400P

4 Output co-axial distributor for system 200 Video

Wall mounted, Dimensions 195x105x42 mm

Can be installed on DIN rail



### VDX/400

Miniature 4 Output twisted pair distributor for system 200 Video systems

Wall mounted, Dimensions 60x44x16 mm

Can be installed on DIN rail



## SELECTORS



### SI/200

#### Audio entrance selector for System 200

Plastic housing Protection rating IP30. 8 DIN low profile module  
Switchable dual entrance unit  
Power supply: 11V DC Current demand: 50mA



### VSI/200

#### Video entrance selector for System 200

Plastic housing Protection rating IP30. 12 DIN low profile module  
Switchable dual entrance unit  
Power supply: 14.5 / 17.5V DC or 12V DC Current demand: 80mA



## AUDIO & VIDEO MODULES



### HA/200

#### Audio module for System 200 entry panels

Two potentiometers to adjust entry panel volume and receiver volume.  
Operation between -15 to +50 degrees. .



### HAV/200 (mono) - HAVC/200 (Colour)

#### Video/Audio module for System 200 entry panels

The module comes complete with - CCD camera with  $\pm 11^\circ$  manual adjustment, with fixed-focus lens. Infrared or white LEDs for lighting. Two potentiometers to adjust entry panel volume and receiver volume. 380 Lines resolution, 1 vpp or balanced transmission. Operation between -15 to +50 degrees.



## OTHER COMPONENTS



### VLS/101

#### Relay unit for auxiliary devices (lights, apertures, acoustic alarms etc.).

Plastic housing for installation in electrical control panels (EN50022), dimensions 4 low-profile DIN modules. Protection rating IP30. The relay features impulse switching contacts for control of the electrical functions (switching power 5A resistive -2A inductive at a maximum voltage of 250 VAC) powered by direct or alternating current or by a low-voltage signal from the system. Power supply 10/24V AC/DC - 60 mA.



### IT/200

#### Telephone interface (PSTN)

Plastic housing Protection rating IP30. 8 DIN low profile module Used to interface an audio call onto a telephone handset

