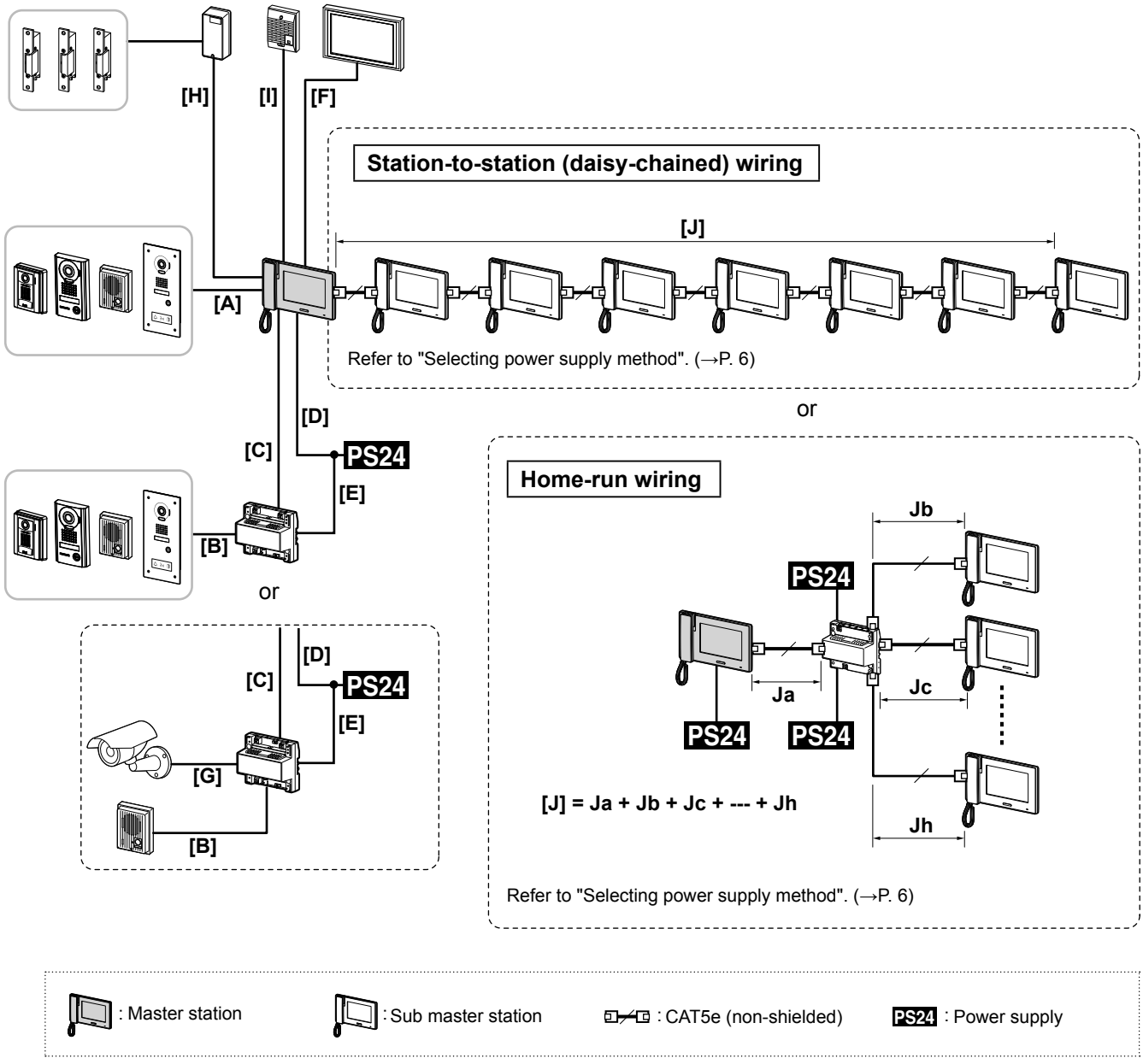
## Wiring distance

* The wiring distance between the power supply and each unit differs depending on the power supply method. (→P. 6)




### Wiring distance between each device

| | | Coaxial | CAT5e (24AWG) | Wire diameter | | | |
|---|---|---|---|---|---|---|---|
| | | | | Ø0.65 mm (22 AWG) | Ø0.8 mm (20 AWG) | Ø1.0 mm (18 AWG) | Ø1.2 mm (16 AWG) |
| [A] | Door station - master station | - | - | 50 m (165') | 100 m (330') | 100 m (330') | 100 m (330') |
| [B] | Door station - long distance adaptor | - | - | 100 m (330') | 150 m (490') | 200 m (650') | 200 m (650') |
| [C] | Long distance adaptor - master station | - | - | 50 m (165') | 75 m (245') | 100 m (330') | 100 m (330') |
| [D] | Master station - power supply | - | - | 5 m (16') | 5 m (16') | 10 m (33') | 10 m (33') |
| [E] | Long distance adaptor - power supply | - | - | 50 m (165') | 75 m (245') | 100 m (330') | 100 m (330') |
| [F] | Master station - external display | 3 m (10') | - | - | | | |
| [G] | Long distance adaptor - CCTV camera | 15 m (50') | - | - | | | |
| [H] | Master station - multiple door release adaptor | - | - | 50 m (165') | 75 m (245') | 100 m (330') | 100 m (330') |
| [I] | Master station - optional call extension speaker | - | - | 75 m (245') | 100 m (330') | 150 m (490') | 150 m (490') |
| [J] | Total wiring distance of residential stations | - | 300 m (980') | - | | | |

## Selecting power supply method

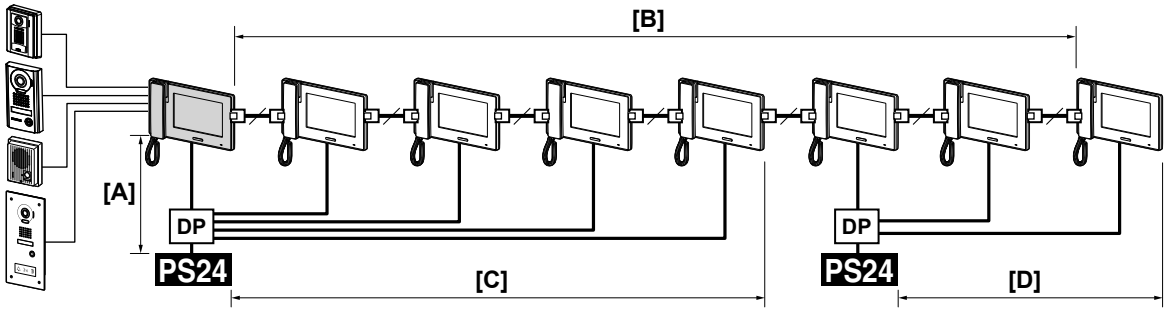
The system allows you to select from the following methods for supplying power to the system. The maximum wiring distance differs depending on the power supply method. You can also mix-and-match the methods 1 to 4.

### 1 Supplying power directly to each unit from a single power supply

**⚠ CAUTION**

**Be sure to distribute the output of the power supply close to the power supply.**

: Master station : Sub master station

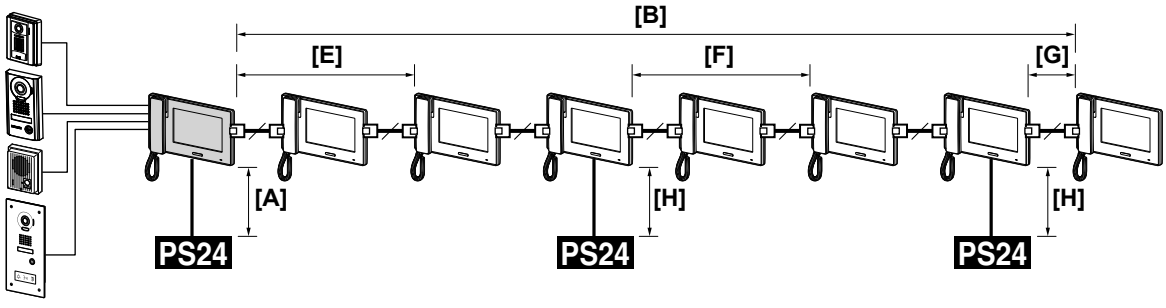



DP : Distribution point

**The following chart indicates how many units can be powered by a single power supply.**

| Combination of units | Master station | Sub master station | Long distance adaptor |
|---|---|---|---|
| Master and sub master stations | 1 | 4 | - |
| Master and sub master stations with long distance adaptors | 1 | 3 | 4 |
| Sub master stations only | - | 6 | - |

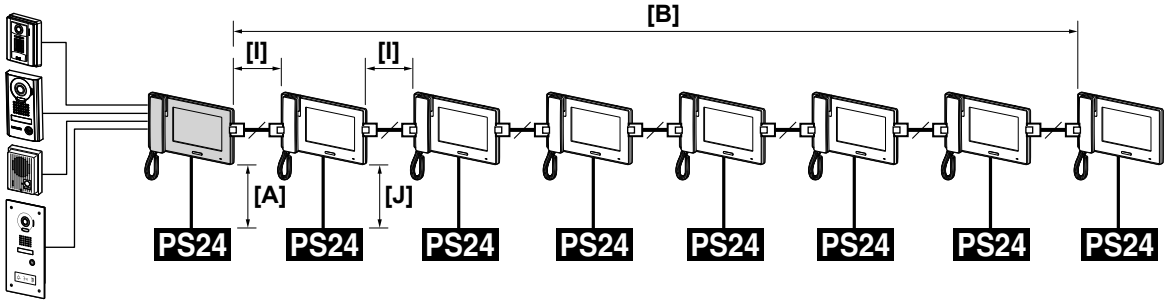
### 2 Supplying power to sub master stations via wiring with the master station




**The following chart indicates how many units can be powered by a single power supply.**

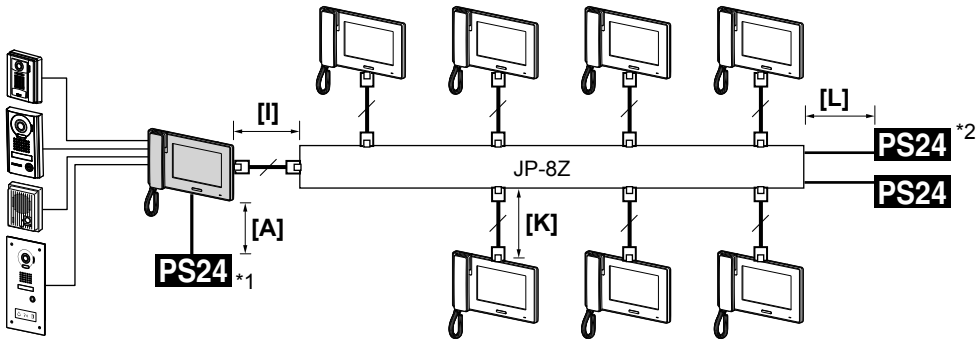
| Combination of units | Master station | Sub master station | Long distance adaptor |
|---|---|---|---|
| Master and sub master stations | 1 | 2 | - |
| Master and sub master stations with long distance adaptors | 1 | 2 | 4 |
| Sub master stations only | - | 3 | - |

### 3 Connecting a power supply to the master and each sub master station individually



## 4 Supplying power to sub master stations via a distribution adaptor

* The total wiring distance of residential stations is 300 m (980').

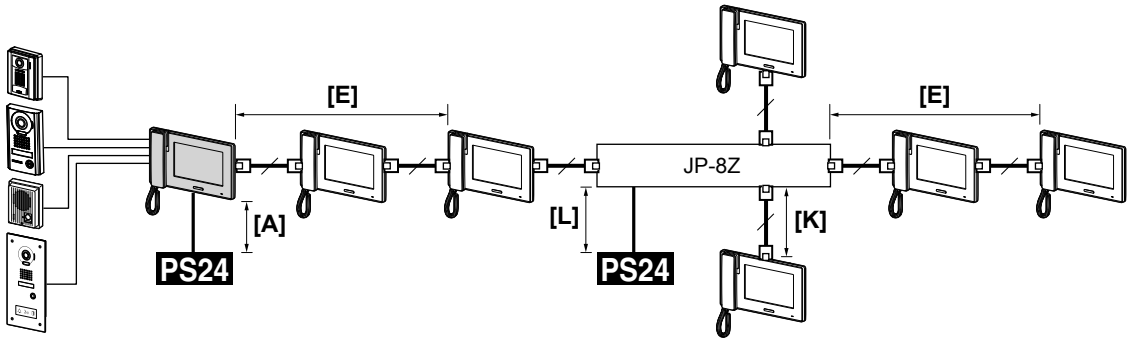



*1: The master station needs a power supply.

*2: Up to four sub master stations can be supplied with one power supply. Use two power supplies for 5 - 7 sub master stations.

## 5 Mix-and-match methods

* The total wiring distance of residential stations is 300 m (980').




### Wiring distance

| | CAT5e (24AWG) | Wire diameter | | | | Notes |
|---|---|---|---|---|---|---|
| | | Ø0.65 mm (22 AWG) | Ø0.8 mm (20 AWG) | Ø1.0 mm (18 AWG) | Ø1.2 mm (16 AWG) | |
| **[A]** | - | 5 m (16') | 5 m (16') | 10 m (33') | 10 m (33') | - |
| **[B]** | 300 m (980') | - | | | | - |
| **[C]** | - | 150 m (490') | 200 m (650') | 300 m (980') | 300 m (980') | When powering up to one master station and four sub master stations |
| **[D]** | - | 150 m (490') | 200 m (650') | 300 m (980') | 300 m (980') | When powering up to six sub master stations |
| **[E]** | 30 m (98') | - | | | | Up to 50 m (165') when powering master and one sub master stations |
| **[F]** | 30 m (98') | - | | | | When powering up to three sub master stations |
| **[G]** | 50 m (165') | - | | | | When powering up to two sub master stations |
| **[H]** | - | 5 m (16') | 5 m (16') | 10 m (33') | 10 m (33') | When powering up to three sub master stations |
| **[I]** | 200 m (650') | - | | | | - |
| **[J]** | - | 150 m (490') | 200 m (650') | 300 m (980') | 300 m (980') | - |
| **[K]** | 50 m (165') | - | | | | - |
| **[L]** | - | 5 m (16') | 10 m (33') | 10 m (33') | 10 m (33') | - |