

City Multi Communication Control Wiring Limitations

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CITY MULTI

Communication Control Wiring Limitations



1) Single Condensing units with multiply Indoor units:

- From Condenser unit terminals (TB3) to farthest Indoor unit terminals (TB5) <= 200m [656ft]
- From MA R/C terminals wired to Indoor unit terminals (1,2) <= 200m [656ft]
- From ME R/C terminals wired to Indoor unit terminals (M1,M2) <= 10m [32ft] *1

2) Multiply Condensing units connected together (CN40 switched):

- From each Condenser unit terminals (TB3) to farthest Indoor unit terminals (TB5) <= 200m [656ft]
- From MA R/C terminals wired to Indoor unit terminals (1,2) <= 200m [656ft]
- From ME R/C terminals wired to Indoor unit terminals (M1,M2) <= 10m [32ft] *1
- From Condenser unit (TB7) with "CN40 switched" to farthest away Condenser unit (TB7) <= 200m [656ft]
- From farthest Indoor unit (TB5) of Condenser A to farthest Indoor unit (TB5) of Condenser unit B <= 500m [1640ft] *4

3) Multiply Condensing units connected with G-50A:

- From each Condenser unit terminals (TB3) to farthest Indoor unit terminals (TB5) <= 200m [656ft]
- From MA R/C terminals wired to Indoor unit terminals (1,2) <= 200m [656ft]
- From ME R/C terminals wired to Indoor unit terminals (M1,M2) <= 10m [32ft] *1
- From PAC-SC50KUA (PSU) to farthest Condensing unit (TB7) <= 200m [656ft]
- From PAC-SC50KUA (PSU) to G-50A (DC 12V) <= 10m [32ft]
- From G-50A to each Condensing unit (TB7) to farthest Indoor unit (TB5) <= 500m [1640ft]
- From farthest Indoor unit (TB5) of Condenser A to farthest Indoor unit (TB5) of Condenser unit B <= 500m [1640ft] *4

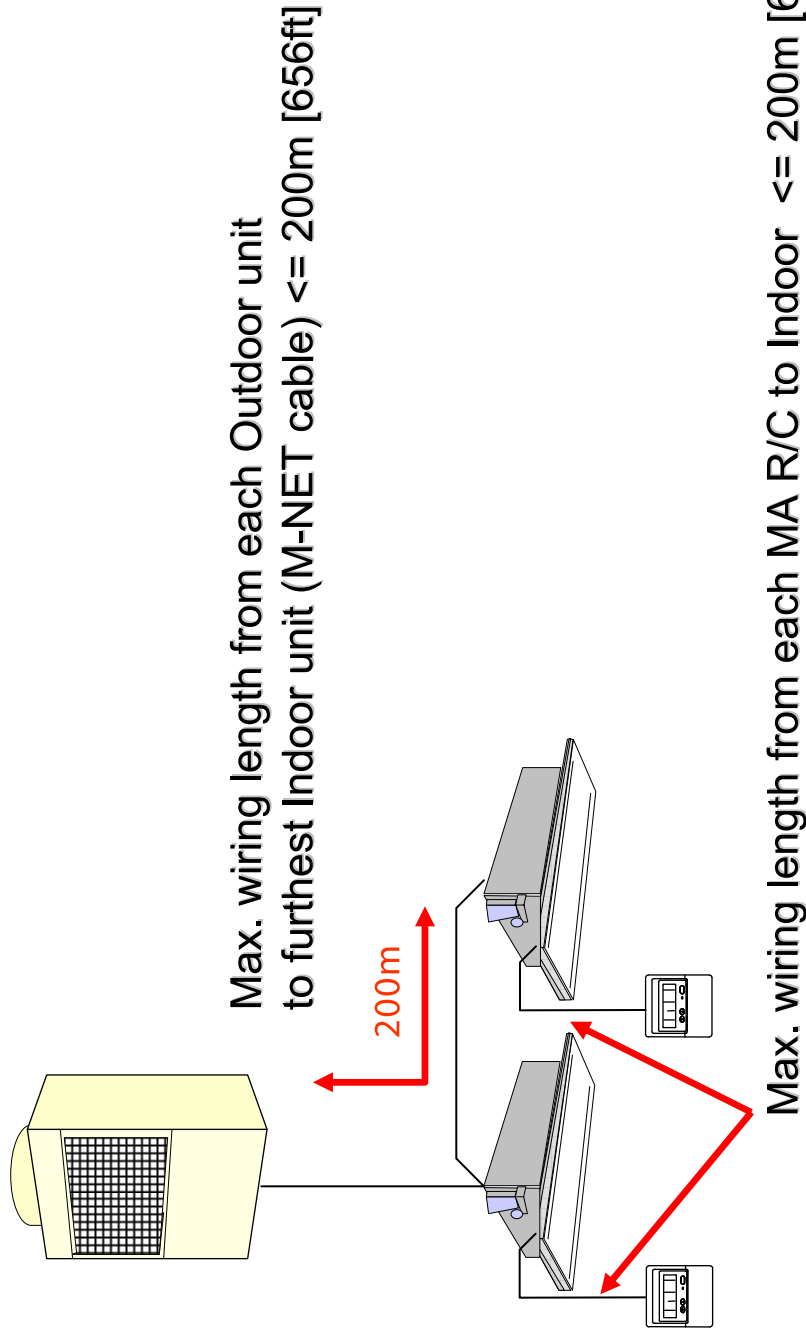
*1. When length is > 10m [32ft] upgrade to 16 AWG size wire, while including lengths in overall totals

*4. Depending on the number of indoor units, it is possible to wire indoor units separated over 500m.
Please forward wiring layout, lengths and total connected Indoor units to MESCA for evaluation.

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Communication Control Wiring Limitations

MA Controlled - Single Condensing unit

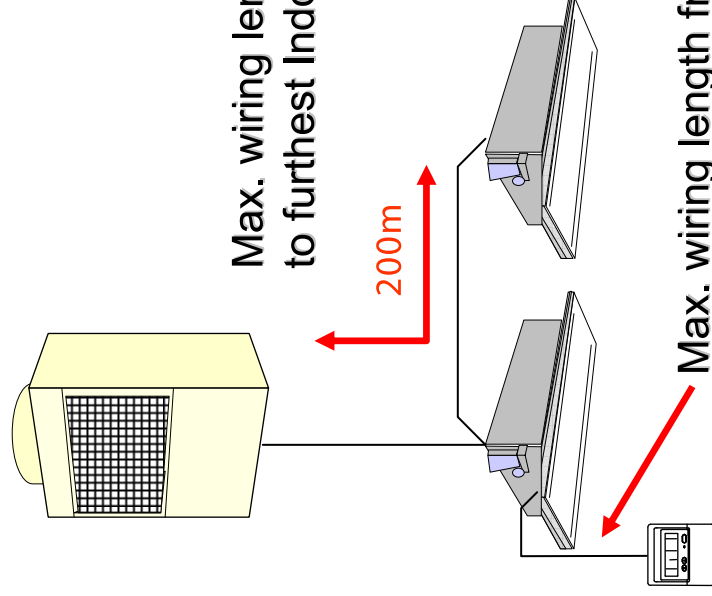


R/C wiring applies to all other configurations and examples

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Communication Control Wiring Limitations

ME Controller - Single Condensing unit



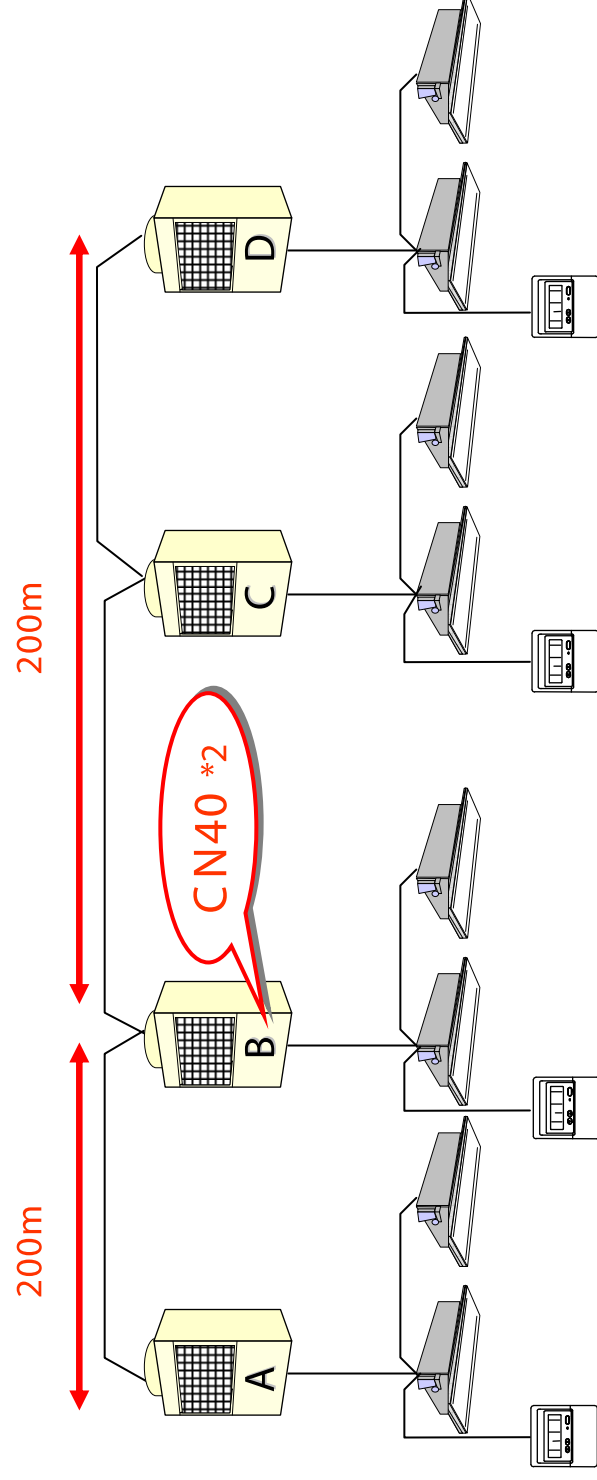
***1.** If length from ME R/C to Indoor unit exceeds 10m [32ft] you are needing to upgrade to 16 AWG size wire, while each total addition lengths should be included into Max. wiring length from each Outdoor unit to furthest Indoor unit.

R/C wiring applies to all other configurations and examples

CITY MULTI Communication Control Wiring Limitations

Multiply Condensing units connected together (CN40 Switched)

Max. wiring length from central transmission line between PSU (“B” unit) and the furthest Outdoor unit (M-NET cable) $\leq$ 200m [656ft]



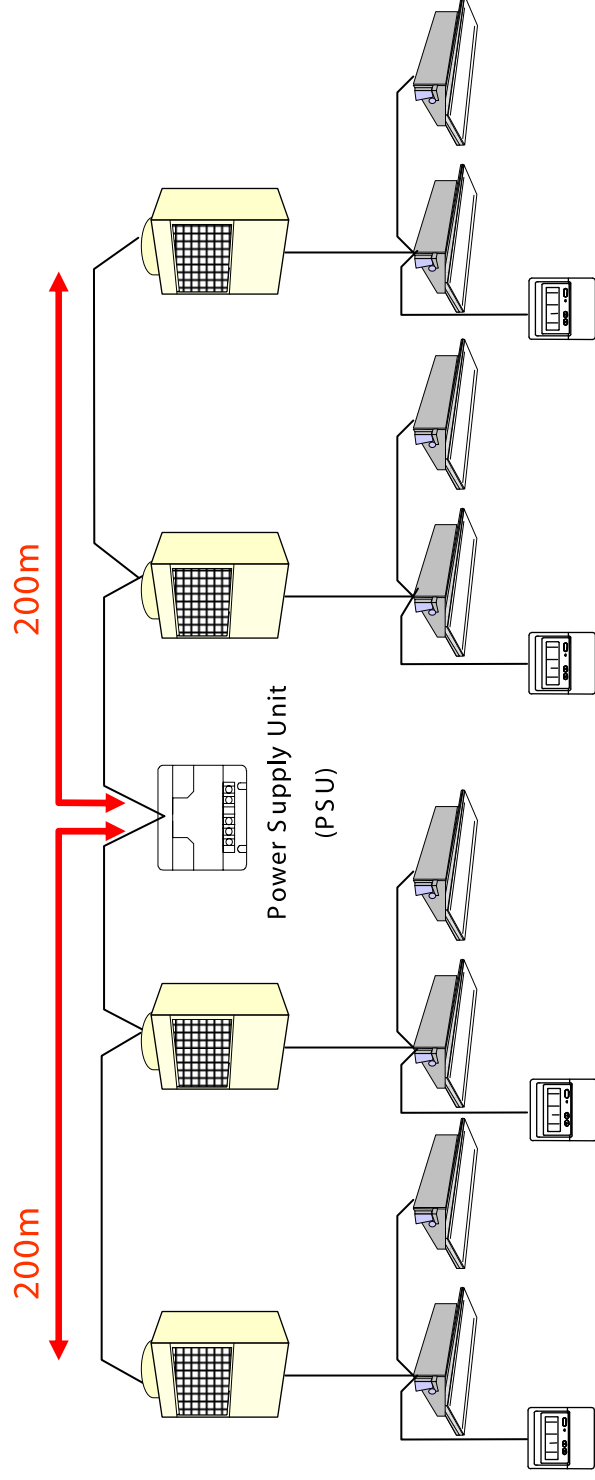
***2.** “B” unit having CN40 jumper changed provides power to both “B” unit TB3 and “B” unit TB7 terminals. Power and communication is then transmitted between A, C and D unit TB7 terminals.

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Communication Control Wiring Limitations

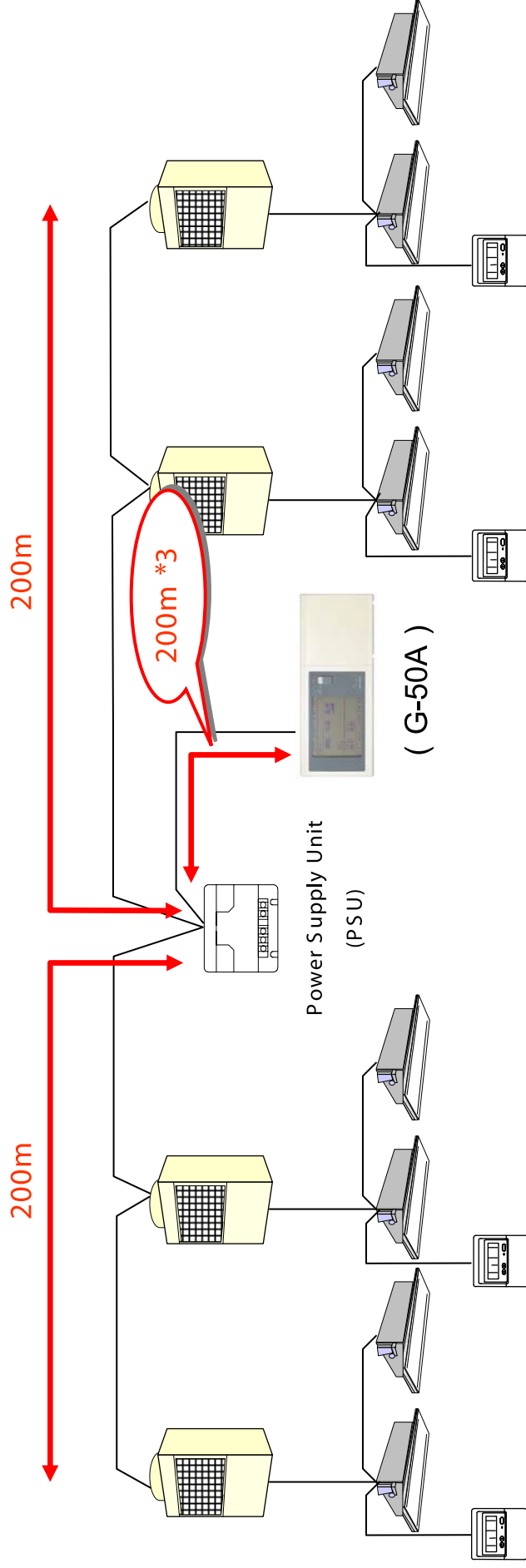
Multiply Condensing units connected together (with Power Supply)

Max. wiring length from central transmission line between PSU and the furthest Outdoor unit
(M-NET cable) $\leq 200\text{m}$ [656ft]



Multiply Condensing units connected together with G-50A

Max. wiring length from central transmission line between PSU and the furthest Outdoor unit
(M-NET cable) $\leq 200\text{m}$ [656ft]

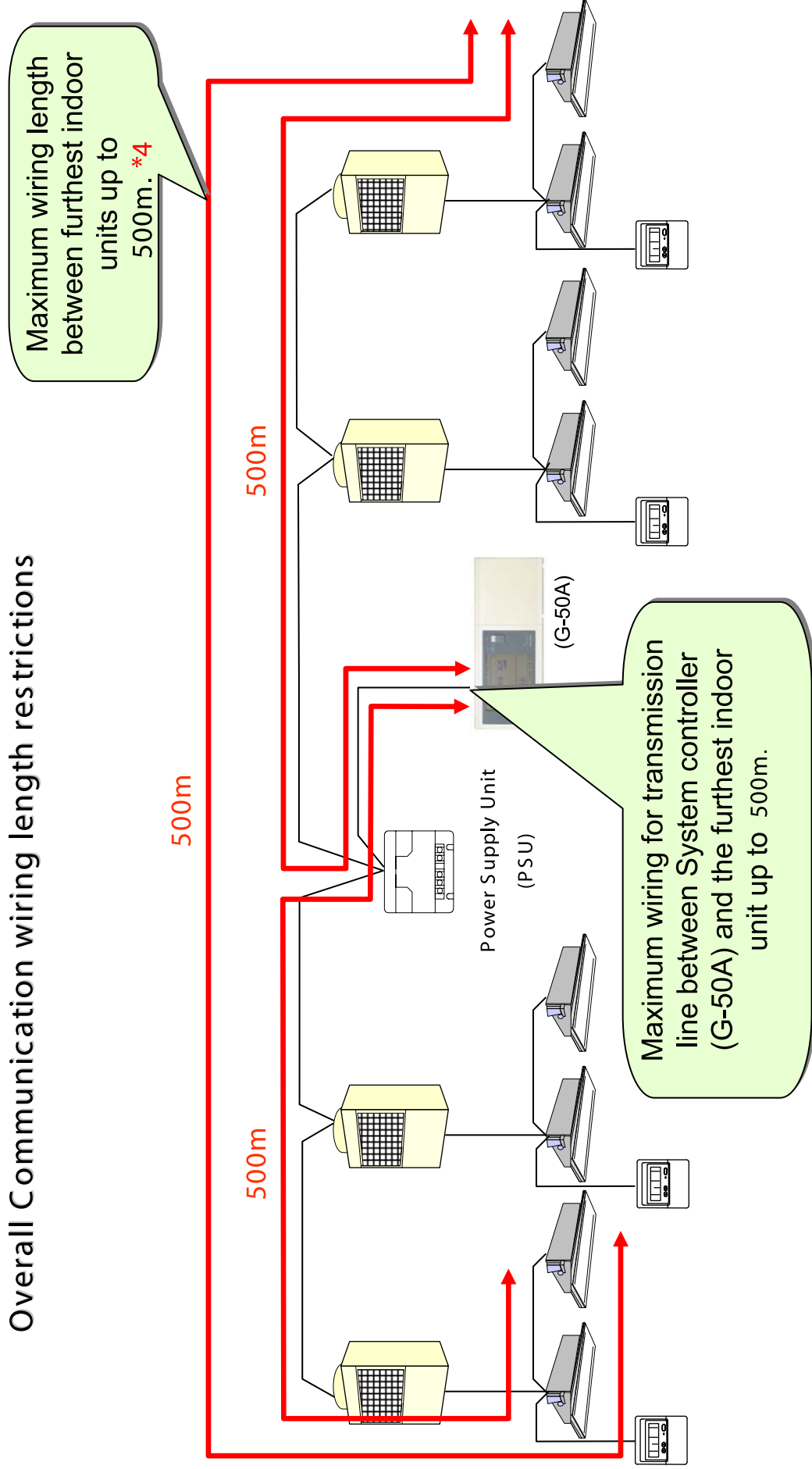


- *3. Max. M-NET transmission wiring between PSU and System Controller $\leq 200\text{m}$ [656ft]
- Max. 12VDC power supply wiring between PSU and G-50A $\leq 10\text{m}$ [32ft]

CITY MULTI

Communication Control Wiring Limitations

Overall Communication wiring length restrictions



*4. Depending on the number of indoor units, it is possible to wire indoor units separated over 500m. Please forward wiring layout, lengths and total connected Indoor unit to MESCA for evaluation.