

## Schneider MODBUS RTU

Supported Series : Schneider MODBUS RTU CONTROLLER

Website: <http://www.schneider-electric.com/site/home/index.cfm/ww/>

### HMI Setting:

| Parameters   | Recommended          | Options         | Notes |
|--------------|----------------------|-----------------|-------|
| PLC type     | Schneider MODBUS RTU |                 |       |
| PLC I/F      | RS485                | RS232/RS485     |       |
| Baud rate    | 9600                 | 9600~115200     |       |
| Data bits    | 8                    | 7,8             |       |
| Parity       | Even                 | Even, Odd, None |       |
| Stop bits    | 1                    | 1,2             |       |
| PLC sta. no. | 1                    | 0-255           |       |

|                     |     |                   |     |
|---------------------|-----|-------------------|-----|
| Online simulator    | YES | Broadcast command | YES |
| Extend address mode | YES |                   |     |

### PLC Setting:

|                    |                     |
|--------------------|---------------------|
| Communication mode | Modbus RTU protocol |
|--------------------|---------------------|

### Device Address:

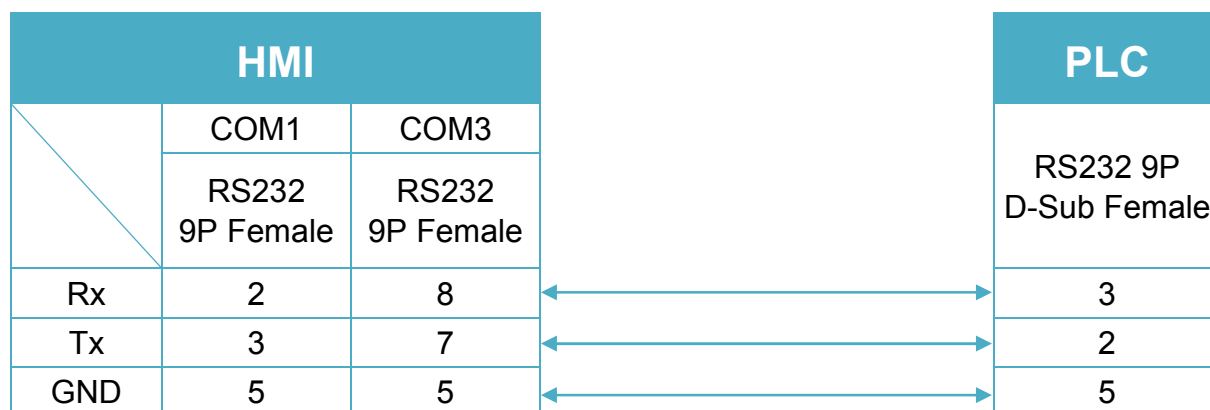
| Bit/Word | Device type    | Format   | Range       | Memo                           |
|----------|----------------|----------|-------------|--------------------------------|
| B        | %IX            | DDDDDo   | 0 ~ 655357  | Input bit (read only)          |
| B        | %QX            | DDDDDo   | 0 ~ 655357  | Write multiple coils           |
| B        | %MX            | DDDDDDDo | 0 ~ 9999997 | Output register bit (octal)    |
| B        | %M             | DDDDD    | 0 ~ 65535   | Output bit                     |
| B        | %MW_Bit        | DDDDDdd  | 0 ~ 6553515 | Output register bit (decimal)  |
| B        | 1x             | DDDDD    | 0 ~ 65535   | Input bit (read only)          |
| B        | 0x_multi_coils | DDDDD    | 0 ~ 65535   | Write multiple coils           |
| B        | 3x_Bit         | DDDDDdd  | 0 ~ 6553515 | Input register bit (read only) |
| W        | %MW            | DDDDDD   | 0 ~ 999999  | Output register                |
| DW       | %MD            | DDDDDD   | 0 ~ 999999  | Output register                |
| W        | 3x             | DDDDD    | 0 ~ 65535   | Input Register (read only)     |
| DW       | 5x             | DDDDD    | 0 ~ 65535   | 4x double word swap            |
| DW       | 6x             | DDDDD    | 0 ~ 65535   | 4x single word write           |

## Wiring Diagram:

RS232 9P D-Sub (Diagram 1 ~ Diagram 3)

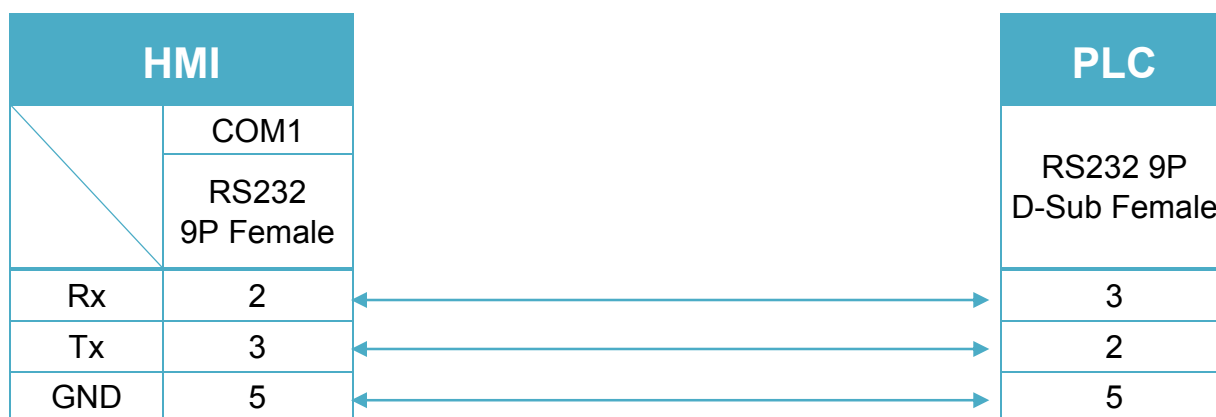
### Diagram 1

|                   |  |
|-------------------|--|
| <b>cMT Series</b> | <b><i>cMT3151</i></b>                              |
| <b>eMT Series</b> | <b><i>eMT3070/ eMT3105 / eMT3120 / eMT3150</i></b> |
| <b>MT-iE</b>      | <b><i>MT8073iE / MT8102iE</i></b>                  |
| <b>MT-XE</b>      | <b><i>MT8092XE</i></b>                             |
| <b>MT-iP</b>      | <b><i>MT6103iP</i></b>                             |

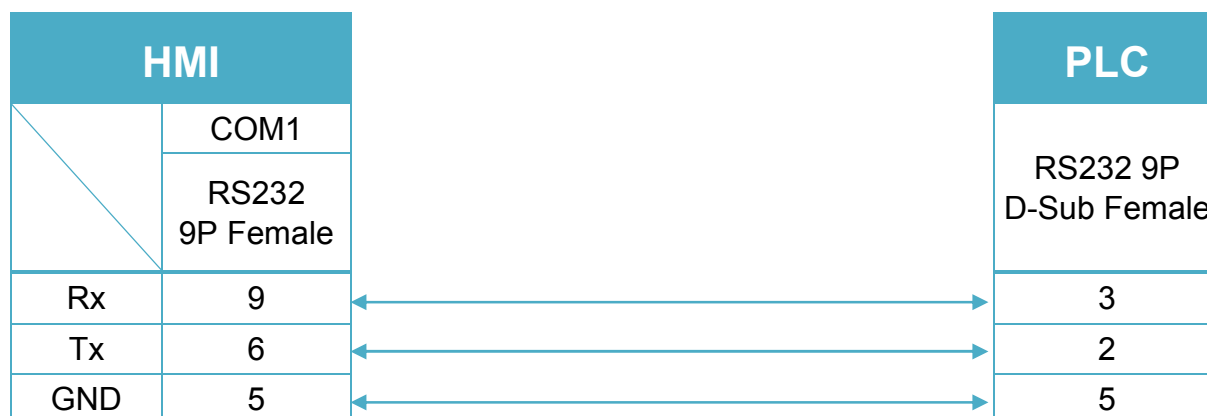


**Diagram 2**

|                   |   |
|-------------------|---|
| <b>cMT Series</b> | <b>cMT-SVR</b>  |
| <b>mTV</b>        | <b>mTV</b>  |
| <b>MT-iE</b>      | <b>MT8070iE / MT6070iE / MT8100iE / MT8121iE / MT8150iE /<br/>MT8071iE / MT6071iE / MT8072iE / MT6072iE / MT8073iE /<br/>MT8101iE / MT8102iE / MT8103iE</b> |
| <b>MT-XE</b>      | <b>MT8121XE / MT8150XE / MT8090XE</b>   |


**Diagram 3**

|              |                                       |
|--------------|---------------------------------------|
| <b>MT-iE</b> | <b>MT8050iE</b>                       |
| <b>MT-iP</b> | <b>MT6051iP / MT6071iP / MT8071iP</b> |



The following is the view from the soldering point of a cable.



9P D-Sub to 8P Mini-DIN : RS485 2W (Diagram 4 ~ Diagram 9)

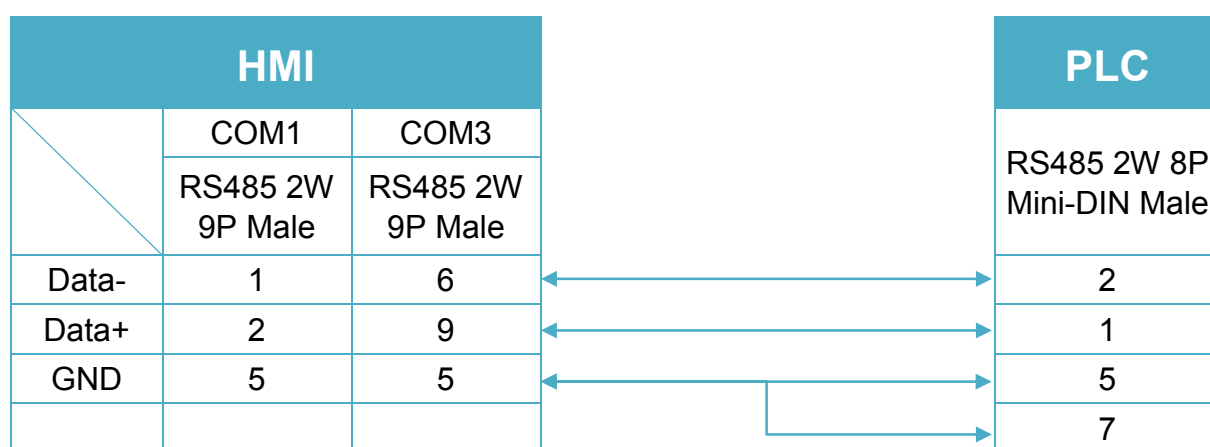
### Diagram 4

**cMT Series**

***cMT3151***

**eMT Series**

***eMT3070 / eMT3105 / eMT3120 / eMT3150***



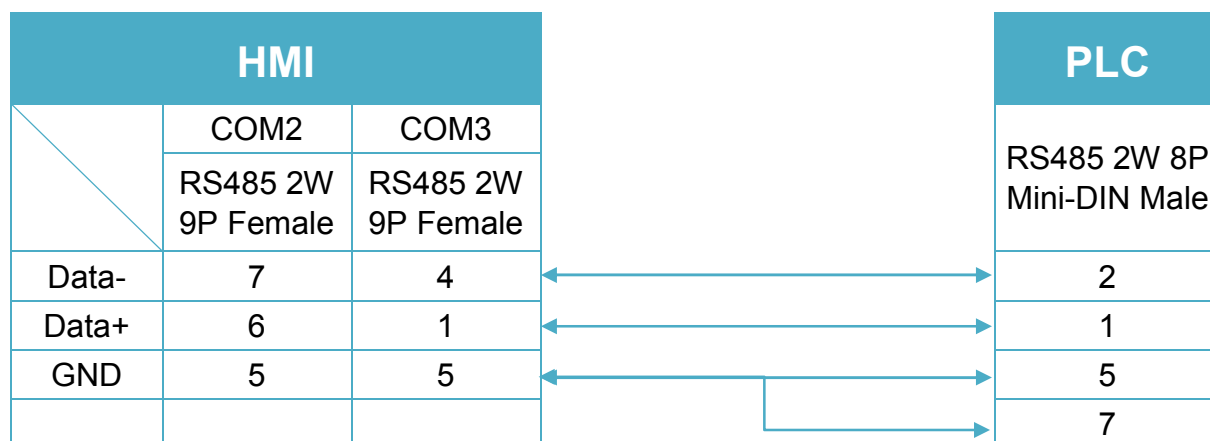
### Diagram 5

**cMT Series**

***cMT-SVR***

**mTV**

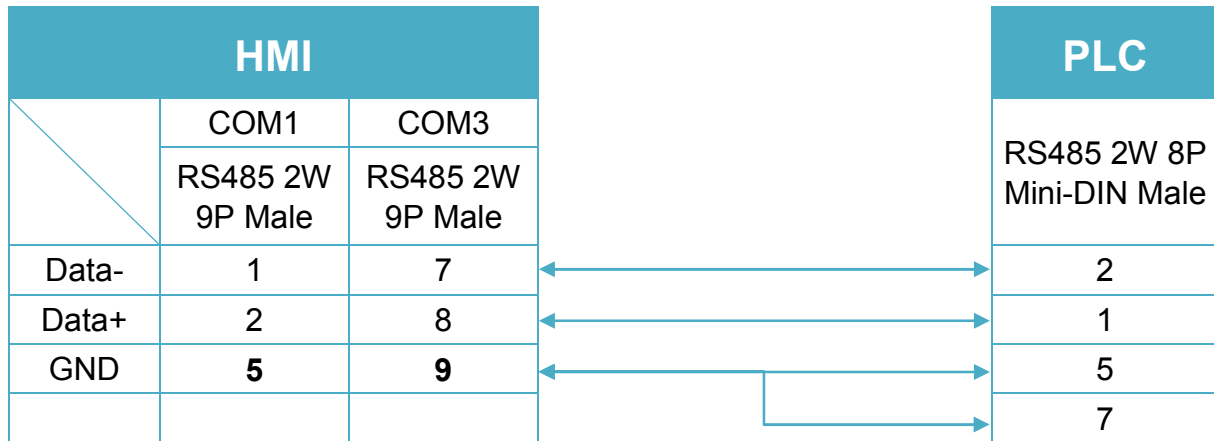
***mTV***



## Diagram 6

**MT-iE** *MT8070iE / MT6070iE / MT8100iE / MT8121iE / MT8150iE*

**MT-XE** *MT8121XE / MT8150XE*

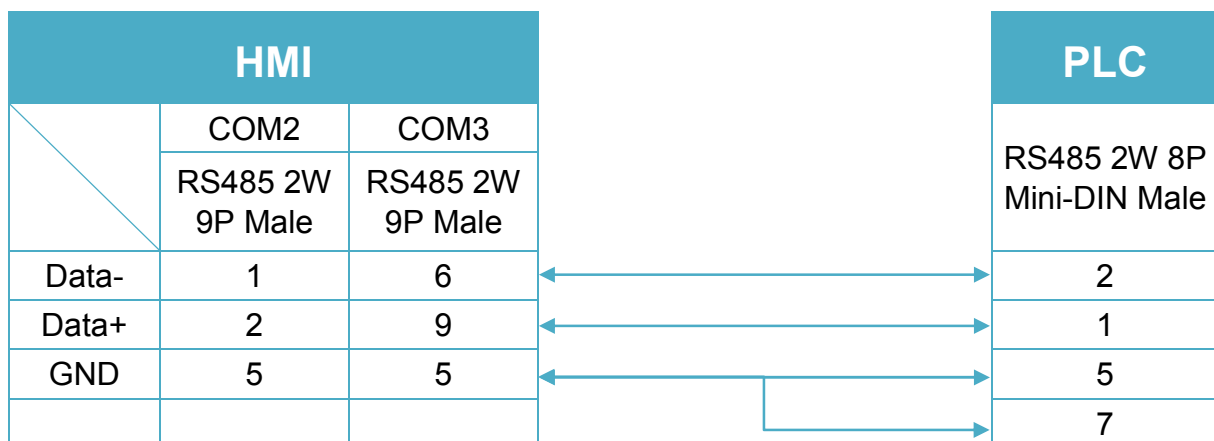


## Diagram 7

**MT-iE** *MT8071iE / MT6071iE / MT8072iE / MT6072iE / MT8073iE / MT8101iE / MT8102iE / MT8103iE*

**MT-XE** *MT8090XE / MT8092XE*

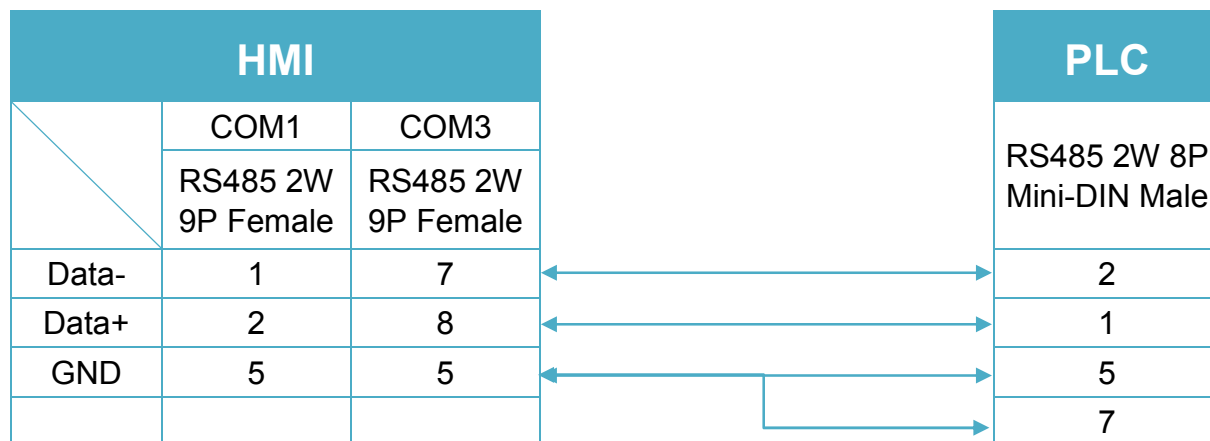
**MT-iP** *MT6103iP*



## Diagram 8

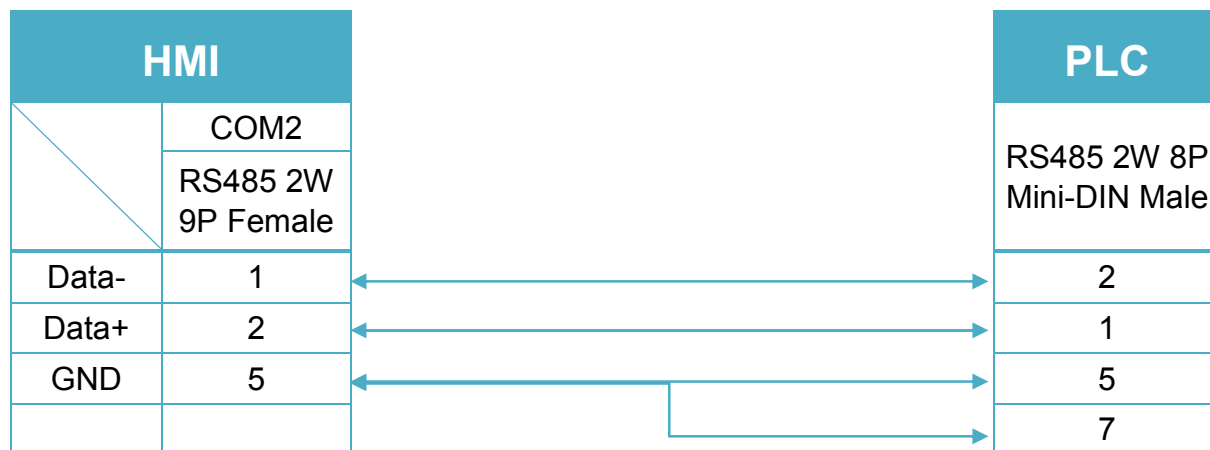
**MT-iE** *MT8050iE*

**MT-iP** *MT6051iP*



## Diagram 9

**MT-iP** *MT6071iP / MT8071iP*

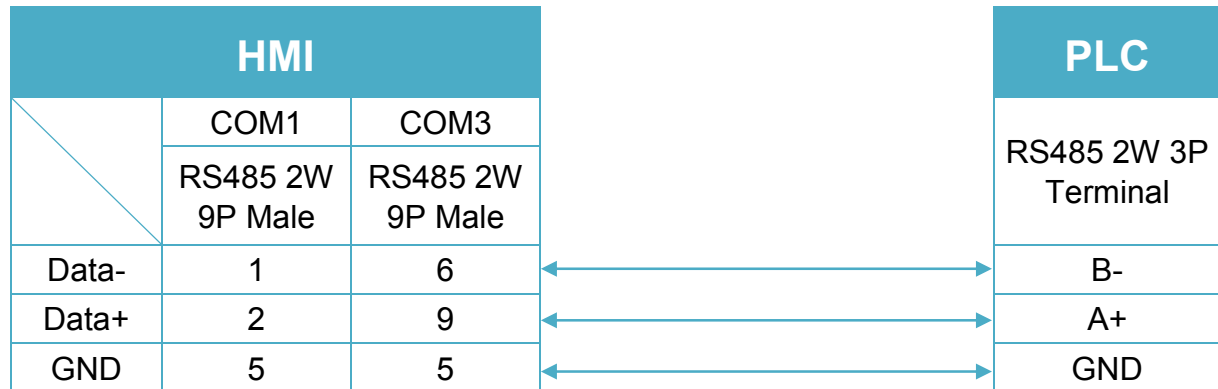


RS485 2W 3P Terminal (Diagram 10 ~ Diagram 15)

## Diagram 10

**cMT Series** *cMT3151*

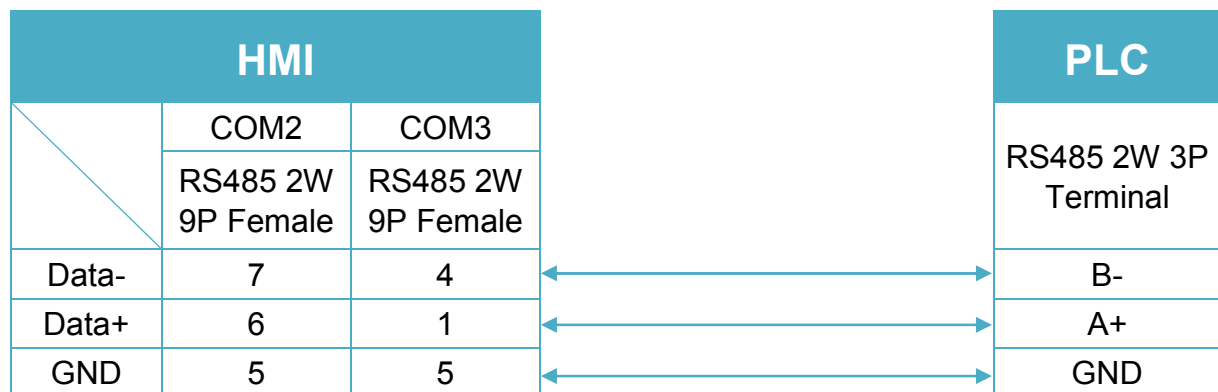
**eMT Series** *eMT3070/ eMT3105 / eMT3120 / eMT3150*



## Diagram 11

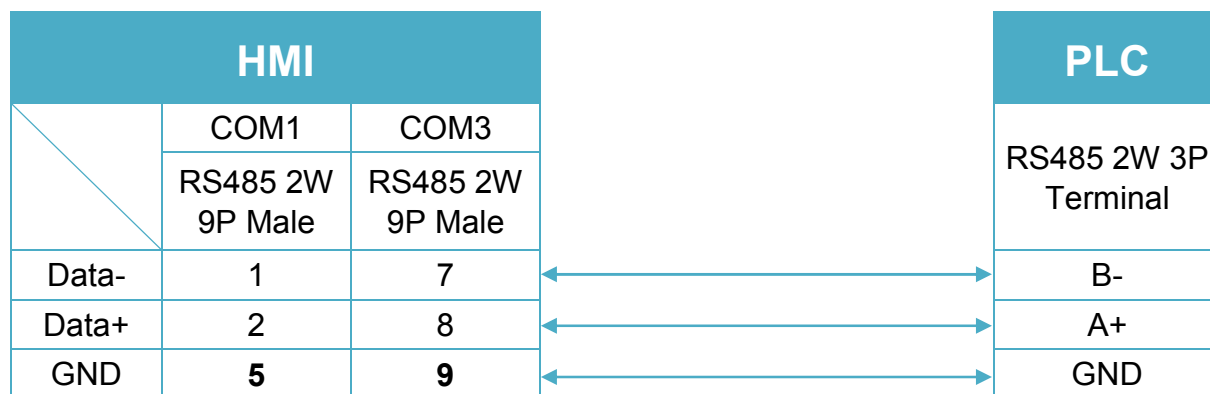
**cMT Series** *cMT-SVR*

**mTV** *mTV*



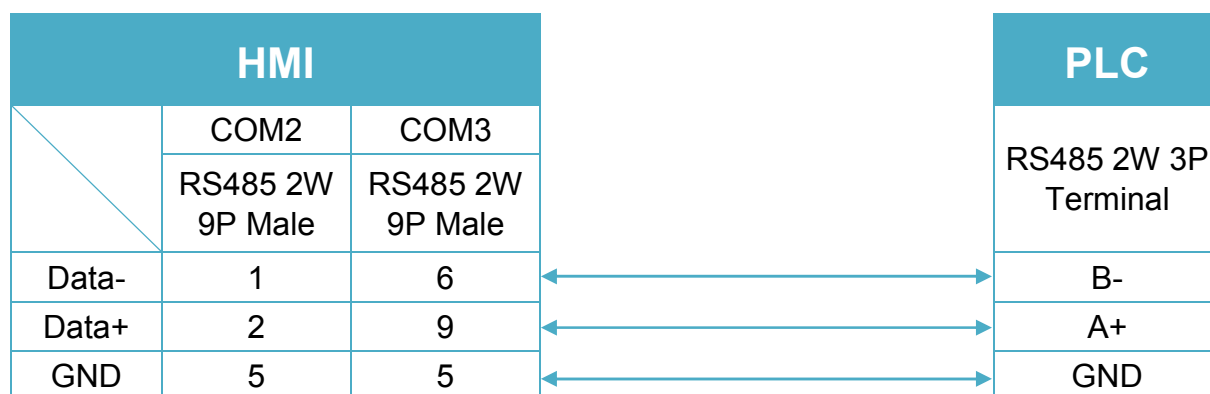
## Diagram 12

|              |  |
|--------------|--|
| <b>MT-iE</b> | <b><i>MT8070iE / MT6070iE / MT8100iE / MT8121iE / MT8150iE</i></b> |
| <b>MT-XE</b> | <b><i>MT8121XE / MT8150XE</i></b>                                  |



## Diagram 13

|              |   |
|--------------|---|
| <b>MT-iE</b> | <b><i>MT8071iE / MT6071iE / MT8072iE / MT6072iE / MT8073iE / MT8101iE / MT8102iE / MT8103iE</i></b> |
| <b>MT-XE</b> | <b><i>MT8090XE / MT8092XE</i></b>   |
| <b>MT-iP</b> | <b><i>MT6103iP</i></b>  |

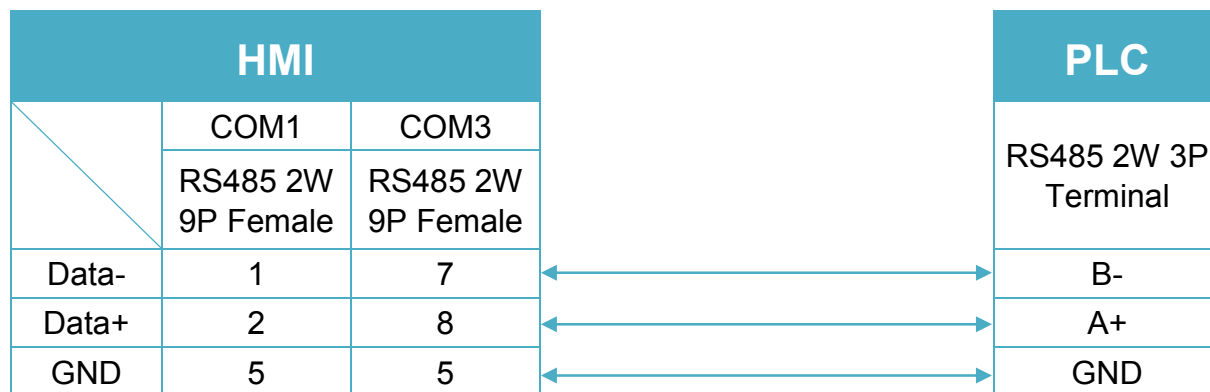




## Diagram 14

**MT-iE** *MT8050iE*

**MT-iP** *MT6051iP*



## Diagram 15

**MT-iP** *MT6071iP / MT8071iP*

