

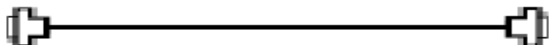
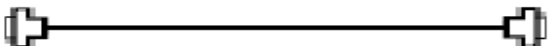
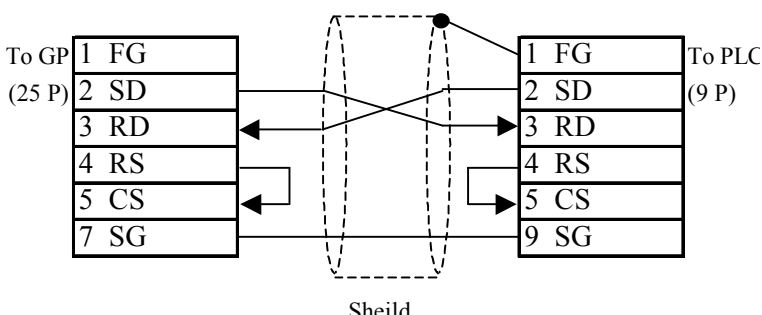
## OMRON Corporation PLC

### SYSMAC CJ Series Connection

#### Connection Method

##### 1. RS-232C Connection

[RS-232C Port on CPU Unit / CJ1W-SCU41 (COM Port 2)]

| Type                                              | Connection Method                                                                    | Distance   |
|---------------------------------------------------|--------------------------------------------------------------------------------------|------------|
| Using GP000-IS03-MS                               |    | 3m         |
| Using XW2Z-200S or XW2Z-500S by OMRON Corporation |    | 2m<br>5m   |
| Creating Cable                                    |  | Within 15m |

#### NOTE

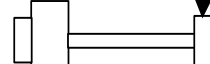
While the above connection diagram differs slightly from the OMRON XW2Z-200S (2m) and XW2Z-500S (5m) RS-232C cables, the system will operate correctly using this design.

#### Recommended Products

|                        |                                            |                       |
|------------------------|--------------------------------------------|-----------------------|
| Connector/Cover for GP | D-sub 25 pin Plug                          | XM2A-2501 <OMRON Co.> |
|                        | Cover for D-sub 25 pin                     | XM2S-2511 <OMRON Co.> |
|                        | Jack Screw                                 | XM2Z-0071 <OMRON Co.> |
| Cable                  | CO-MA-VV-SB5P × 28AWG <Hitachi Cable Ltd.> |                       |
| Setscrew               | Metric Coarse Screw Tread : M2.6 × 0.45    |                       |

## 2. RS-232C Connection

[Peripheral Port on CPU Unit]

| Type                                                          | Connection Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Distance |      |      |      |      |      |      |      |      |      |      |      |  |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|------|------|------|------|------|------|------|------|------|--|
| Using<br>CS1W-CN225 or<br>CS1W-CN625<br>with Created<br>Cable | <div><div><div>To GP (25P Male)</div><table><tr><td>1 FG</td></tr><tr><td>2 SD</td></tr><tr><td>3 RD</td></tr><tr><td>4 RS</td></tr><tr><td>5 CS</td></tr><tr><td>7 SG</td></tr></table></div><div><div>To Connecton Cable for<br/>Periferal Port (25P Female)</div><table><tr><td>1 FG</td></tr><tr><td>2 RD</td></tr><tr><td>3 SD</td></tr><tr><td>4 CS</td></tr><tr><td>5 RS</td></tr><tr><td>7 SG</td></tr></table></div><div><div>To Peripheral Port<br/>on Device/PLC</div><div>CS1W-CN225 (2m) or<br/>CS1W-CN625 (6m)</div></div></div> <div><div>Within<br/>15m</div></div> | 1 FG     | 2 SD | 3 RD | 4 RS | 5 CS | 7 SG | 1 FG | 2 RD | 3 SD | 4 CS | 5 RS | 7 SG |  |
| 1 FG                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |      |      |      |      |      |      |      |      |      |      |  |
| 2 SD                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |      |      |      |      |      |      |      |      |      |      |  |
| 3 RD                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |      |      |      |      |      |      |      |      |      |      |  |
| 4 RS                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |      |      |      |      |      |      |      |      |      |      |  |
| 5 CS                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |      |      |      |      |      |      |      |      |      |      |  |
| 7 SG                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |      |      |      |      |      |      |      |      |      |      |  |
| 1 FG                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |      |      |      |      |      |      |      |      |      |      |  |
| 2 RD                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |      |      |      |      |      |      |      |      |      |      |  |
| 3 SD                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |      |      |      |      |      |      |      |      |      |      |  |
| 4 CS                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |      |      |      |      |      |      |      |      |      |      |  |
| 5 RS                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |      |      |      |      |      |      |      |      |      |      |  |
| 7 SG                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |      |      |      |      |      |      |      |      |      |      |  |

### Recommended Products

|                           |                                            |                       |
|---------------------------|--------------------------------------------|-----------------------|
| Connector/Cover<br>for GP | D-sub 25 pin Plug                          | XM2A-2501 <OMRON Co.> |
|                           | Cover for D-sub 25 pin                     | XM2S-2511 <OMRON Co.> |
|                           | Jack Screw                                 | XM2Z-0071 <OMRON Co.> |
| Cable                     | CO-MA-VV-SB5P × 28AWG <Hitachi Cable Ltd.> |                       |
| Setscrew                  | Metric Coarse Screw Tread : M2.6 × 0.45    |                       |

## 3. RS-422 Connection

[CJ1W-SCU41 (COM Port 1)]

| Type               | Connection Method                                                                                  | Distance    |
|--------------------|----------------------------------------------------------------------------------------------------|-------------|
| Using GP070-CN10-O | <p>To GP GP070-CN10-O</p> <p>Termination Resistance 220Ω</p> <p>To PLC (9P)</p> <p>Within 500m</p> | Within 500m |
| Creating Cable     | <p>To GP (25P)</p> <p>Termination Resistance 220Ω</p> <p>To PLC (9P)</p> <p>Within 500m</p>        | Within 500m |



- \* Turn on the termination resistance switch on the PLC.
- \* Names of Signal A and Signal B are opposite on the GP and the PLC.

### NOTE

- \* When connecting the #9 and #10 pins on the GP Serial I/F, a termination resistance of 100Ω is added between RDA and RDB.

### Recommended Products

|                        |                                             |           |             |
|------------------------|---------------------------------------------|-----------|-------------|
| Connector/Cover for GP | D-sub 25 pin Plug                           | XM2A-2501 | <OMRON Co.> |
|                        | Cover for D-sub 25 pin                      | XM2S-2511 | <OMRON Co.> |
|                        | Jack Screw                                  | XM2Z-0071 | <OMRON Co.> |
| Cable                  | CO-HC-ESV-3PX7/0.2 <Hirakawa Hewtech Corp.> |           |             |
| Setscrew               | Metric Coarse Screw Tread : M2.6 × 0.45     |           |             |