

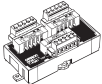
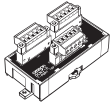
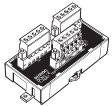
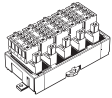
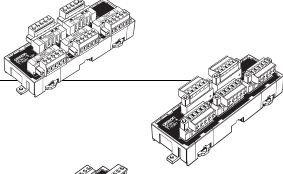
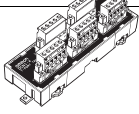
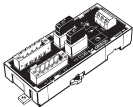
# Peripheral Devices

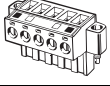
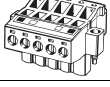
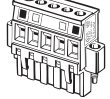
## General-purpose Peripheral Devices

### Peripheral Devices for DeviceNet Communications

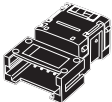
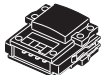
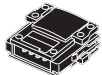
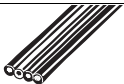
#### Ordering Information

##### ● General-purpose Models

| Product                         | Appearance                                                                          | Model           | Specifications                                                                                                 |                                                                                                          |
|---------------------------------|-------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| T-branch Tap for 1 branch line  |    | <b>DCN1-1NC</b> | Cable wiring direction: Toward top<br>Cable lock direction: From top<br>Connector screw direction: From top    | Provided with 3 parallel connectors with clamps (XW4G-05C1-H1-D), standard terminating resistor          |
|                                 |    | <b>DCN1-1C</b>  | Cable wiring direction: Toward side<br>Cable screw direction: From top<br>Connector screw direction: From side | Provided with 3 parallel connectors with screws (XW4B-05C1-H1-D), standard terminating resistor          |
|                                 |    | <b>DCN1-2C</b>  | Cable wiring direction: Toward top<br>Cable screw direction: From side<br>Connector screw direction: From top  |                                                                                                          |
|                                 |   | <b>DCN1-2R</b>  | Cable wiring direction: Toward side<br>Cable screw direction: From top<br>Connector screw direction: From top  | Provided with 3 orthogonal connectors with screws (XW4B-05C1-VIR-D), standard terminating resistor       |
| T-branch Tap for 3 branch lines |  | <b>DCN1-3NC</b> | Cable wiring direction: Toward top<br>Cable lock direction: From top<br>Connector screw direction: From top    | Provided with 5 parallel clamp connectors with screws (XW4G-05C1-H1-D), standard terminating resistor    |
|                                 |  | <b>DCN1-3C</b>  | Cable wiring direction: Toward side<br>Cable screw direction: From top<br>Connector screw direction: From side | Provided with 5 parallel connectors with screws (XW4B-05C1-H1-D), standard terminating resistor          |
|                                 |                                                                                     | <b>DCN1-4C</b>  | Cable wiring direction: Toward top<br>Cable screw direction: From side<br>Connector screw direction: From top  |                                                                                                          |
|                                 |  | <b>DCN1-4R</b>  | Cable wiring direction: Toward side<br>Cable screw direction: From top<br>Connector screw direction: From top  | Provided with 5 orthogonal clamp connectors with screws (XW4B-05C1-VIR-D), standard terminating resistor |
| Power Supply Tap                |  | <b>DCN1-1P</b>  | Tap provided with 2 connectors, standard terminating resistor, and fuse                                        |                                                                                                          |

| Product                         |                 | Appearance                                                                          | Model                  | Specifications                                                                                                      |
|---------------------------------|-----------------|-------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------|
| Connectors                      |                 |    | <b>XW4G-05C1-H1-D</b>  | Parallel clamp connector with screws<br>Connector insertion and wiring both performed horizontally.                 |
|                                 |                 |    | <b>XW4G-05C4-TF-D</b>  | Parallel multi-branching clamp connector with screws<br>Connector insertion and wiring performed in same direction. |
|                                 |                 |    | <b>XW4B-05C1-H1-D</b>  | Parallel connector with screws<br>Connector insertion and wiring performed in same direction.                       |
|                                 |                 |    | <b>XW4B-05C4-T-D</b>   | Parallel, screw-less, multi-branching connector<br>Connector insertion and wiring performed in same direction.      |
|                                 |                 |    | <b>XW4B-05C4-TF-D</b>  | Parallel, multi-branching connector with screws<br>Connector insertion and wiring performed in same direction.      |
|                                 |                 |    | <b>XW4B-05C1-VIR-D</b> | Orthogonal connector with screws<br>Connector insertion and wiring performed at a right angle.                      |
| DeviceNet<br>Standard<br>Cables | Thin<br>Cables  |    | <b>DCA1-5C10(-B)</b>   | Outer diameter: 7.00 mm<br>Length: 100 m<br>DCA1-5C10-B: Cable color: Blue<br>DCA1-5C10: Cable color: Gray          |
|                                 | Thick<br>Cables |   | <b>DCA2-5C10(-B)</b>   | Outer diameter: 11.6 mm<br>Length: 100 m<br>DCA2-5C10-B: Cable color: Blue<br>DCA2-5C10: Cable color: Gray          |
| Terminal-block<br>Terminator    |                 |  | <b>DRS1-T</b>          | Resistance of 121 Ω                                                                                                 |

## ● Peripheral Devices for Flat Cables

| Product                                                                | Appearance                                                                          | Model            | Specifications                                                                                                                                                                                                          |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connector for Flat Cable                                               |    | <b>DCN4-SF4D</b> | Connector with lock screws for crimping flat cable                                                                                                                                                                      |
| Conversion Connector for Standard Thin Cable and Flat Cable            |    | <b>DCN4-BR4D</b> | Used as a set with a DCN4-TR4 when Thin Cable is branched on a branch line.                                                                                                                                             |
| Power Supply Terminal Block with Terminating Resistance for Flat Cable |    | <b>DCN4-TP4D</b> | Can be used to supply communications power from terminals when Flat Cable is used.                                                                                                                                      |
| Flat Connector Socket                                                  |    | <b>DCN4-TR4</b>  | Used as a set with a DCN4-BR4 Flat Connector Plug in the following applications. <ul style="list-style-type: none"> <li>• Extending the trunk line</li> <li>• T-branching the trunk line into branch lines</li> </ul>   |
|                                                                        |                                                                                     |                  | Used alone in the following applications. <ul style="list-style-type: none"> <li>• Connecting a DCN4-TM4 Terminating Resistor to the trunk line</li> </ul>                                                              |
| Flat Connector Plug                                                    |    | <b>DCN4-BR4</b>  | Used as a set with a DCN4-TR4 Flat Connector Socket in the following applications. <ul style="list-style-type: none"> <li>• Extending the trunk line</li> <li>• T-branching the trunk line into branch lines</li> </ul> |
| Terminating Resistor                                                   |    | <b>DCN4-TM4</b>  | Connector terminating resistor for flat cable. Attached to the DCN4-TR4 Flat Connector Socket at the end of the trunk line.                                                                                             |
| Flat Cable                                                             |   | <b>DCA4-4F10</b> | Four-core flat cable (UL 2555)<br>Length: 100 m<br>Conductor diameters: 0.75 mm <sup>2</sup> x 2, 0.5 mm <sup>2</sup> x 2                                                                                               |
| Simple Manual Crimp Tool                                               |  | <b>DWT-A01</b>   | Crimping tool for DCN4-TR4 Flat Connector Socket or DCN4-BR4 Flat Connector Plug.                                                                                                                                       |

## Specifications

### ● General-purpose Models (T-branch Taps)

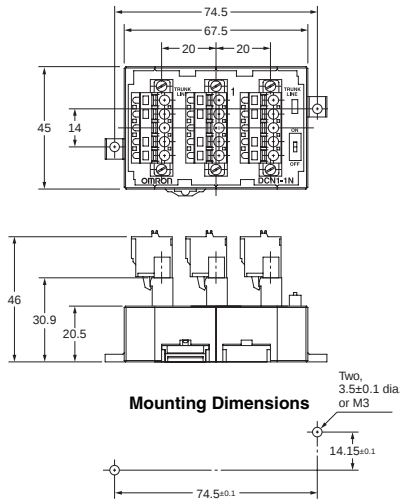
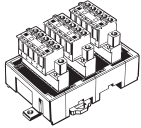
|                                      |                                                                              |
|--------------------------------------|------------------------------------------------------------------------------|
| <b>Rated current</b>                 | Between main lines: 8 A (power supply line) and 2 A (signal line)            |
|                                      | Between main and branch lines: 3 A (power supply line) and 1 A (signal line) |
| <b>Insulation resistance</b>         | 100 MΩ min. (at 500 VDC)                                                     |
| <b>Dielectric strength</b>           | 500 VAC for 1 min, leakage current: 1 mA max.                                |
| <b>Ambient operating temperature</b> | 0°C to 55°C                                                                  |

# Dimensions

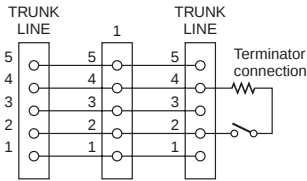
(Unit: mm)

## ● General-purpose Models

### T-branch Tap for 1 branch line DCN1-1NC (With Three Branching Connectors)

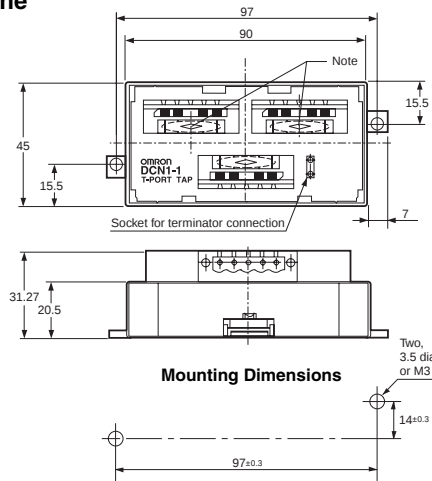
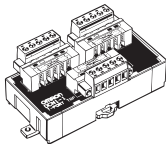


### Internal Circuit

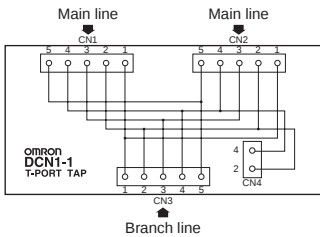


| Terminal No. | Name  |
|--------------|-------|
| 1            | V-    |
| 2            | CAN L |
| 3            | DRAIN |
| 4            | CAN H |
| 5            | V+    |

### T-branch Tap for 1 branch line DCN1-1C (With Three Branching Connectors)



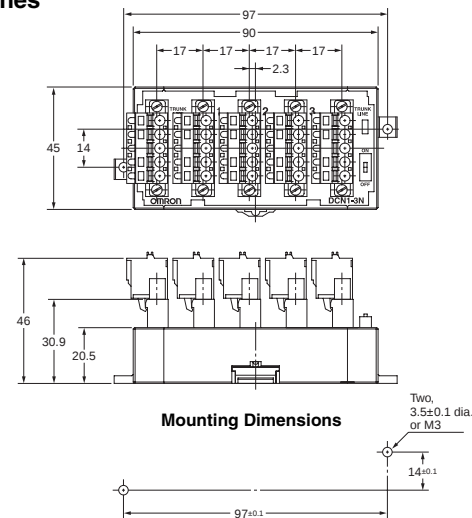
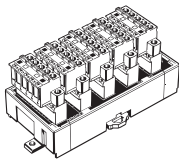
### Internal Circuit



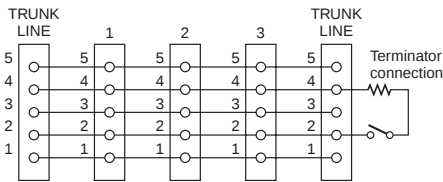
| Terminal No. | Name  |
|--------------|-------|
| 1            | V-    |
| 2            | CAN L |
| 3            | DRAIN |
| 4            | CAN H |
| 5            | V+    |

**Note:** When connecting a branch line to the main line, connect the main line to the connector marked with an asterisk because the resistance between the asterisks is minimal.

### T-branch Tap for 3 branch lines DCN1-3NC (With Five Branching Connectors)

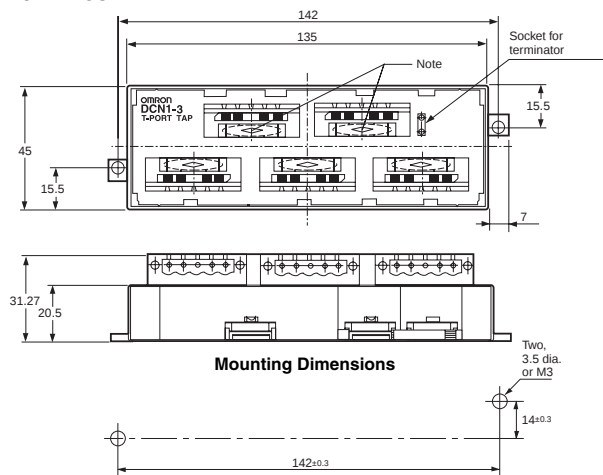
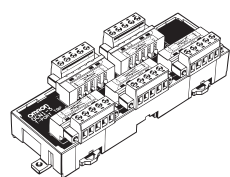


### Internal Circuit



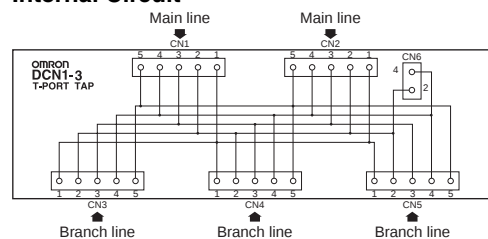
| Terminal No. | Name  |
|--------------|-------|
| 1            | V-    |
| 2            | CAN L |
| 3            | DRAIN |
| 4            | CAN H |
| 5            | V+    |

## T-branch Tap for 3 branch lines DCN1-3C (With Five Branching Connectors)



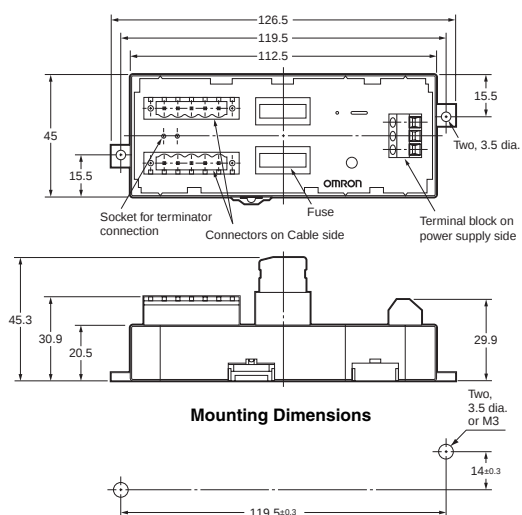
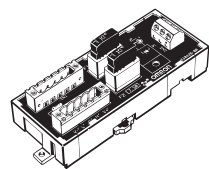
**Note:** When connecting a branch line to the main line, connect the main line to the connector marked with an asterisk because the resistance between the asterisk portion is minimal.

## Internal Circuit

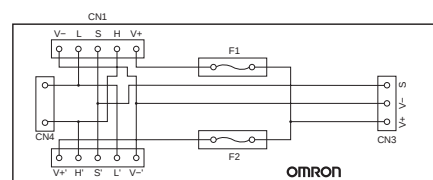


| Terminal No. | Name  |
|--------------|-------|
| 1            | V-    |
| 2            | CAN L |
| 3            | DRAIN |
| 4            | CAN H |
| 5            | V+    |

## Power Supply Tap DCN1-1P (With Two Branching Connectors)

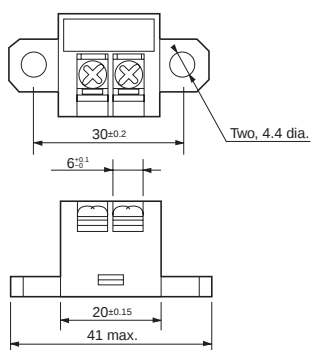
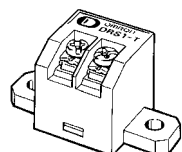


## Internal Circuit

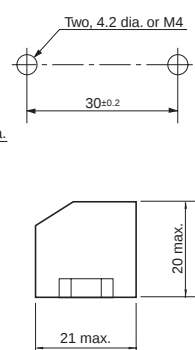


| Terminal No. | Name  |
|--------------|-------|
| V-           | V-    |
| L            | CAN L |
| S            | DRAIN |
| H            | CAN H |
| V+           | V+    |

## DRS1-T (Terminal-block Terminator)

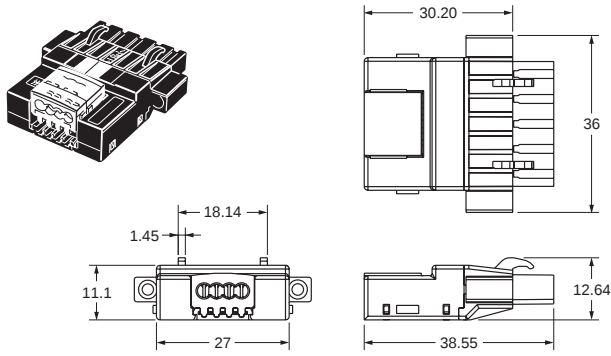


## Mounting Dimensions

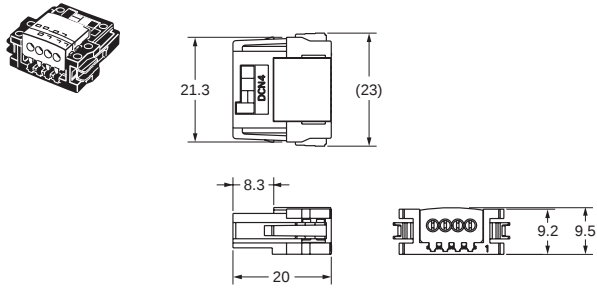


● Flat Cable

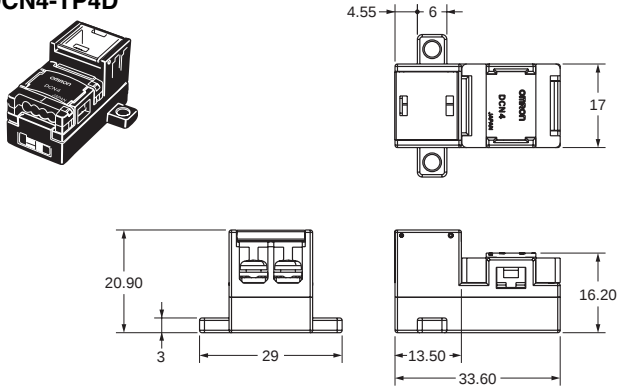
**Connector for Flat Cable  
DCN4-SF4D**



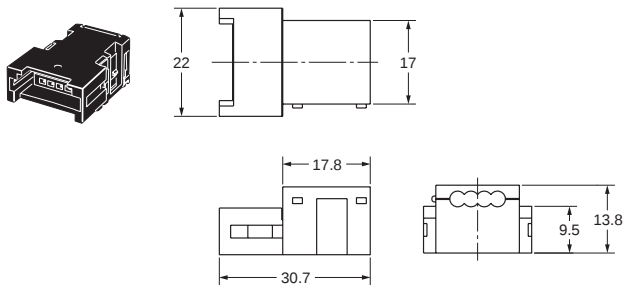
**Conversion Connector for Standard Thin Cable and  
Flat Cable  
DCN4-BR4D**



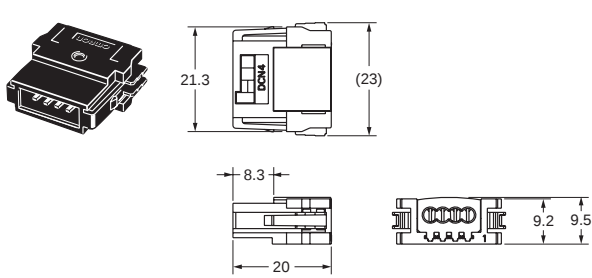
**Power Supply Terminal Block with Terminating Resistance  
for Flat Cable  
DCN4-TP4D**



**Flat Connector Socket  
DCN4-TR4**



**Flat Connector Plug  
DCN4-BR4**



## I/O Peripheral Devices

### ■ I/O Connectors for Connector Terminals

#### ● MIL Connectors

#### Applicable Connectors

| Type                                        | Model              | Remarks                       |
|---------------------------------------------|--------------------|-------------------------------|
| Flat Cable Pressure-welded Connectors       | <b>XG4M-4030-T</b> |                               |
| Pressure-welded Connectors with Loose Wires | Socket             |                               |
|                                             | <b>XG5M-4032-N</b> | Corresponding to 24 AWG       |
|                                             | <b>XG5M-4035-N</b> | Corresponding to 28 to 26 AWG |
|                                             | Semicover          |                               |
|                                             | <b>XG5S-2001</b>   |                               |
|                                             | Hood Cover *       |                               |
|                                             | <b>XG5S-4022</b>   |                               |

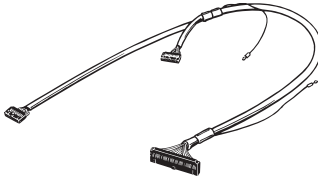
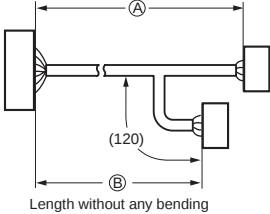
\* DeviceNet connectors for multi-drop wiring cannot be used with the Hood Cover.

### Cable Models

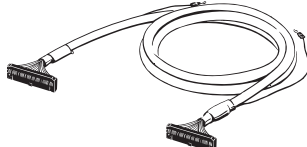
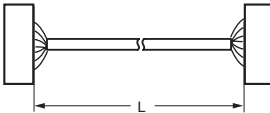
| Type                                        | Model                | Connected device | Applicable models         |
|---------------------------------------------|----------------------|------------------|---------------------------|
| Cable with Connectors (1:2)                 | <b>G79-I□□-□□-D1</b> | G7TC/G70D/G70A   | DRT2-ID32ML               |
|                                             | <b>G79-M□□-□□-D1</b> |                  | DRT2-MD32ML               |
|                                             | <b>G79-O□□-□□-D1</b> |                  | DRT2-OD32ML/DRT1-OD32ML-1 |
|                                             | <b>G79-I□□-□□-D2</b> |                  | DRT2-ID32ML-1             |
|                                             | <b>G79-M□□-□□-D2</b> |                  | DRT2-MD32ML-1             |
| Cable with Connector (1:1)                  | <b>XW2Z-C□□K</b>     | --               | All models                |
| Cable with Loose Wires with Crimp Terminals | <b>G79-Y□00C-D1</b>  |                  |                           |
| Cable with Loose Wires                      | <b>G79-A□00C-D1</b>  |                  |                           |

### Applicable Cables with Connectors

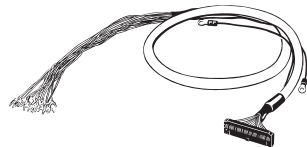
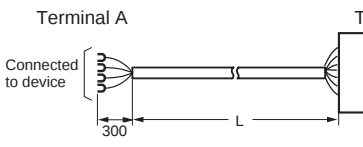
#### ● Cables with Connectors (1-to-2 Connection)/G79-□□-□-D□

| Appearance                                                                          | Cable length (mm)                                                                   | Cable length (mm) |     | Model                |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|-----|----------------------|
|                                                                                     |                                                                                     | (A)               | (B) |                      |
|  |  | 500               | 250 | <b>G79-I50-25-D1</b> |
|                                                                                     |                                                                                     | 750               | 500 | <b>G79-I75-50-D1</b> |
|                                                                                     |                                                                                     | 500               | 250 | <b>G79-O50-25-D1</b> |
|                                                                                     |                                                                                     | 750               | 500 | <b>G79-O75-50-D1</b> |
|                                                                                     |                                                                                     | 500               | 250 | <b>G79-M50-25-D1</b> |
|                                                                                     |                                                                                     | 750               | 500 | <b>G79-M75-50-D1</b> |
|                                                                                     |                                                                                     | 500               | 250 | <b>G79-I50-25-D2</b> |
|                                                                                     |                                                                                     | 750               | 500 | <b>G79-I75-50-D2</b> |
|                                                                                     |                                                                                     | 500               | 250 | <b>G79-M50-25-D2</b> |
|                                                                                     |                                                                                     | 750               | 500 | <b>G79-M75-50-D2</b> |

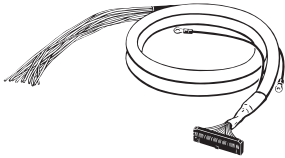
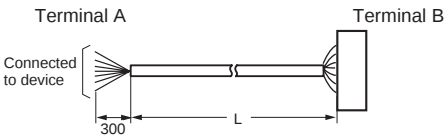
#### ● Cables with Connectors (1-to-1 Connection)/XW2Z-C□□K

| Appearance                                                                          | Cable length (mm)                                                                   |     | Model     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|-----------|
|  |  | 250 | XW2Z-C25K |
|                                                                                     |                                                                                     | 500 | XW2Z-C50K |

#### ● Cables with Crimp Terminals (at the End of Loose Wires)/G79-Y□C-D1

| Appearance                                                                          | Cable length (mm)                                                                   |       | Model               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|---------------------|
|  |  | 1,000 | <b>G79-Y100C-D1</b> |
|                                                                                     |                                                                                     | 2,000 | <b>G79-Y200C-D1</b> |
|                                                                                     |                                                                                     | 5,000 | <b>G79-Y500C-D1</b> |

● Cables with Loose Wires/G79-A□C

| Appearance                                                                        | Cable length (mm)                                                                 |       | Model        |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------|--------------|
|  |  | 2,000 | G79-A200C-D1 |
|                                                                                   |                                                                                   | 5,000 | G79-A500C-D1 |

# I/O Connectors for MULTIPLE I/O TERMINALS

## Applicable Connectors

| Type                          |                           |                | Model           | Remark                        | Connectable model                                                                                   |
|-------------------------------|---------------------------|----------------|-----------------|-------------------------------|-----------------------------------------------------------------------------------------------------|
| Molex connector               | Crimped terminals         | Housing        | 50-57-9403      |                               | Digital I/O Units<br>GT1-ID16MX(-1)/GT1-OD16MX(-1)<br><br>Analog I/O Units<br>GT1-AD08MX/GT1-DA04MX |
|                               |                           | Chain terminal | 16-02-0069      | Corresponding to 24 to 30 AWG |                                                                                                     |
|                               |                           |                | 16-02-0086      | Corresponding to 22 to 24 AWG |                                                                                                     |
|                               |                           | Loose terminal | 16-02-0096      | Corresponding to 24 to 30 AWG |                                                                                                     |
|                               |                           |                | 16-02-0102      | Corresponding to 22 to 24 AWG |                                                                                                     |
|                               |                           | Press-fit tool | 57036-5000      | Corresponding to 22 to 26 AWG |                                                                                                     |
| Fujitsu connector (16 points) | Soldered terminals        |                | FCN361J024-AU   |                               |                                                                                                     |
|                               | Pressure-welded terminals |                | FCN367J024-AU/F |                               |                                                                                                     |
|                               | Crimped terminals         |                | FCN363J024-AU   |                               |                                                                                                     |
|                               |                           |                |                 |                               |                                                                                                     |
| Fujitsu connector (32 points) | Soldered terminals        |                | FCN361J040-AU   |                               | Digital I/O Units<br>GT1-ID32ML(-1)/GT1-OD32ML(-1)                                                  |
|                               | Pressure-welded terminals |                | FCN367J040-AU/F |                               |                                                                                                     |
|                               | Crimped terminals         |                | FCN363J040-AU   |                               |                                                                                                     |
|                               |                           |                |                 |                               |                                                                                                     |
| OMRON D-sub connector         | Pulg                      |                | XM2A-2501       |                               | Digital I/O Units<br>GT1-ID16DS(-1)/GT1-OD16DS(-1)                                                  |
|                               | Hood                      |                | XM2S-2513       | #4-40UNC inch screws          |                                                                                                     |

## Applicable Cables with Connectors (Fujitsu Connectors)

| I/O classification        | Model     | Connectable model                   |
|---------------------------|-----------|-------------------------------------|
| Digital input, 16 points  | XW2Z-□□□A | Digital I/O Units<br>GT1-ID16ML(-1) |
|                           | G79-□C    |                                     |
| Digital output, 16 points | XW2Z-□□□A | Digital I/O Units<br>GT1-OD16ML(-1) |
|                           | G79-□C    |                                     |
| Digital input, 32 points  | XW2Z-□□□B | Digital I/O Units<br>GT1-ID32ML(-1) |
|                           | G79-I□C□  |                                     |
| Digital output, 32 points | XW2Z-□□□B | Digital I/O Units<br>GT1-OD32ML(-1) |
|                           | G79-O□C□  |                                     |

### ● Cables with Connectors (1-to1 Connection)/G79-□C For Digital Input/Output (16 Points)

| Appearance | Cable length (mm) |       | Model    |
|------------|-------------------|-------|----------|
|            |                   | 1,000 | G79-100C |
|            |                   | 1,500 | G79-150C |
|            |                   | 2,000 | G79-200C |
|            |                   | 3,000 | G79-300C |
|            |                   | 5,000 | G79-500C |

### ● Cables with Connectors (1-to-2 Connection)/G79-O□C-□, G79-I□C-□ For Digital Input/Output (32 Points)

| Appearance                                                                          | Cable length (mm)                                                                   |       | Model         |               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|---------------|---------------|
|                                                                                     | (A)                                                                                 | (B)   | Input         | Output        |
|  |  |       |               |               |
|                                                                                     | 1,000                                                                               | 750   | G79-I100C-75  | G79-O100C-75  |
|                                                                                     | 1,500                                                                               | 1,250 | G79-I150C-125 | G79-O150C-125 |
|                                                                                     | 2,000                                                                               | 1,750 | G79-I200C-175 | G79-O200C-175 |
|                                                                                     | 3,000                                                                               | 2,750 | G79-I300C-275 | G79-O300C-275 |
|                                                                                     | 5,000                                                                               | 4,750 | G79-I500C-475 | G79-O500C-475 |

### For Digital Input/Output (16 Points)

| Appearance | Cable length (mm) |       | Model     |
|------------|-------------------|-------|-----------|
|            |                   | 500   | XW2Z-050A |
|            |                   | 1,000 | XW2Z-100A |
|            |                   | 1,500 | XW2Z-150A |
|            |                   | 2,000 | XW2Z-200A |
|            |                   | 3,000 | XW2Z-300A |
|            |                   | 5,000 | XW2Z-500A |

### For Digital Input/Output (32 Points)

| Appearance | Cable length (mm) |       | Model     |
|------------|-------------------|-------|-----------|
|            |                   | 500   | XW2Z-050B |
|            |                   | 1,000 | XW2Z-100B |
|            |                   | 1,500 | XW2Z-150B |
|            |                   | 2,000 | XW2Z-200B |
|            |                   | 3,000 | XW2Z-300B |
|            |                   | 5,000 | XW2Z-500B |

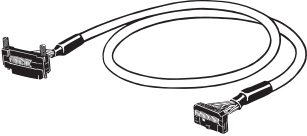
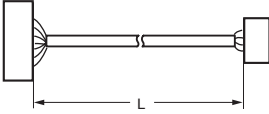
# I/O Connector for Programmable Slaves

## Applicable Connector Terminal Conversion Units

| Applicable cable | Connected product | Remarks                                                                       |
|------------------|-------------------|-------------------------------------------------------------------------------|
| XW2Z-□□□A        | XW2D-20G6         | Slim type<br>(with M3 screw terminals)                                        |
|                  | XW2B-20G4         | Flat cable connectors<br>(with M3 terminal screws for flat-blade screwdriver) |

## Applicable Cables with Connectors

### ● Cables with Connectors/XW2Z For Digital Input/Output (16 Points)

| Appearance                                                                        | Cable length (mm)                                                                 |       | Model     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------|-----------|
|  |  | 500   | XW2Z-050A |
|                                                                                   |                                                                                   | 1,000 | XW2Z-100A |
|                                                                                   |                                                                                   | 1,500 | XW2Z-150A |
|                                                                                   |                                                                                   | 2,000 | XW2Z-200A |
|                                                                                   |                                                                                   | 3,000 | XW2Z-300A |
|                                                                                   |                                                                                   | 5,000 | XW2Z-500A |

# Peripheral Devices for Environment-resistive Slaves

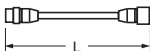
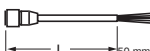
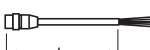
## Peripheral Devices for DeviceNet Communications

### Ordering Information

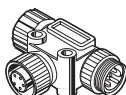
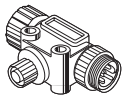
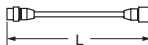
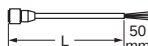
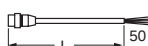
#### ● Environment-resistive Connection Products (for Thin Cable, M12 Micro Connectors)

| Product                                     | Appearance | Model               | Specifications                                            |
|---------------------------------------------|------------|---------------------|-----------------------------------------------------------|
| Sealed Assembling-type Connector (male)     |            | <b>XS2G-D5S7</b>    | For communications (plug)                                 |
| Sealed Assembling-type Connector (female)   |            | <b>XS2C-D5S7</b>    | For communications (socket)                               |
| Sealed T-branch Connector                   |            | <b>DCN2-1</b>       | For 1 branch line                                         |
| Sealed Connector with Terminating Resistor  |            | <b>DRS2-1</b>       | Plug                                                      |
|                                             |            | <b>DRS2-2</b>       | Socket                                                    |
| Cables with Sealed Connectors               |            | <b>DCA1-5CNC5W1</b> | Length (L): 0.5 m                                         |
|                                             |            | <b>DCA1-5CN01W1</b> | Length (L): 1 m                                           |
|                                             |            | <b>DCA1-5CN02W1</b> | Length (L): 2 m                                           |
|                                             |            | <b>DCA1-5CN03W1</b> | Length (L): 3 m                                           |
|                                             |            | <b>DCA1-5CN05W1</b> | Length (L): 5 m                                           |
|                                             |            | <b>DCA1-5CN10W1</b> | Length (L): 10 m                                          |
|                                             |            | <b>DCA1-5CNC5F1</b> | Length (L): 0.5 m                                         |
|                                             |            | <b>DCA1-5CN01F1</b> | Length (L): 1 m                                           |
|                                             |            | <b>DCA1-5CN02F1</b> | Length (L): 2 m                                           |
|                                             |            | <b>DCA1-5CN03F1</b> | Length (L): 3 m                                           |
|                                             |            | <b>DCA1-5CN05F1</b> | Length (L): 5 m                                           |
|                                             |            | <b>DCA1-5CN10F1</b> | Length (L): 10 m                                          |
|                                             |            | <b>DCA1-5CNC5H1</b> | Length (L): 0.5 m                                         |
|                                             |            | <b>DCA1-5CN01H1</b> | Length (L): 1 m                                           |
|                                             |            | <b>DCA1-5CN02H1</b> | Length (L): 2 m                                           |
|                                             |            | <b>DCA1-5CN03H1</b> | Length (L): 3 m                                           |
|                                             |            | <b>DCA1-5CN05H1</b> | Length (L): 5 m                                           |
|                                             |            | <b>DCA1-5CN10H1</b> | Length (L): 10 m                                          |
| Shielded Panel-mounting Connectors (female) |            | <b>DCA1-5CNC5P1</b> | Panel-mounting connector (socket) with 0.5-m cable        |
|                                             |            | <b>XS2P-D522-2</b>  | Panel-mounting connector socket                           |
| Shielded Panel-mounting Connectors (male)   |            | <b>DCA1-5CNC5M1</b> | Panel-mounting connector (plug) with 0.5-m cable          |
|                                             |            | <b>XS2M-D524-4</b>  | Panel-mounting connector (plug) with solder-cup terminals |
| Waterproof cover (for socket)               |            | <b>XS2Z-22</b>      | Used to cover an unused connector section                 |
| Dust cover (for socket)                     |            | <b>XS2Z-15</b>      |                                                           |

● Environment-resistive Models (for Thin Wires and M12 Micro Connectors) 

| Product                                   | Appearance                                                                          |                                                                                   | Model        | Specifications       |                                          |
|-------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------|----------------------|------------------------------------------|
| Sealed T-branch Connector                 |    |                                                                                   | DCN2-1S      | For 1 branch line    |                                          |
| Sealed Assembling type Connector (female) |    |                                                                                   | DRS2-1S      | Plug                 |                                          |
|                                           |                                                                                     |                                                                                   | DRS2-2S      | Socket               |                                          |
| Connectors with Shielded Cables           |    |  | DCA1-5CSC5W1 | Length (L): 0.5 m    | Cable with connectors on both ends       |
|                                           |                                                                                     |                                                                                   | DCA1-5CS01W1 | Length (L): 1 m      |                                          |
|                                           |                                                                                     |                                                                                   | DCA1-5CS02W1 | Length (L): 2 m      |                                          |
|                                           |                                                                                     |                                                                                   | DCA1-5CS03W1 | Length (L): 3 m      |                                          |
|                                           |                                                                                     |                                                                                   | DCA1-5CS05W1 | Length (L): 5 m      |                                          |
|                                           |                                                                                     |                                                                                   | DCA1-5CS10W1 | Length (L): 10 m     |                                          |
|                                           |    |  | DCA1-5CSC5F1 | Length (L): 0.5 m    | Cable with connector on one end (socket) |
|                                           |                                                                                     |                                                                                   | DCA1-5CS01F1 | Length (L): 1 m      |                                          |
|                                           |                                                                                     |                                                                                   | DCA1-5CS02F1 | Length (L): 2 m      |                                          |
|                                           |                                                                                     |                                                                                   | DCA1-5CS03F1 | Length (L): 3 m      |                                          |
|                                           |                                                                                     |                                                                                   | DCA1-5CS05F1 | Length (L): 5 m      |                                          |
|                                           |                                                                                     |                                                                                   | DCA1-5CS10F1 | Length (L): 10 m     |                                          |
|                                           |    |  | DCA1-5CSC5H1 | Length (L): 0.5 m    | Cable with connector on one end (plug)   |
|                                           |                                                                                     |                                                                                   | DCA1-5CS01H1 | Length (L): 1 m      |                                          |
|                                           |                                                                                     |                                                                                   | DCA1-5CS02H1 | Length (L): 2 m      |                                          |
|                                           |                                                                                     |                                                                                   | DCA1-5CS03H1 | Length (L): 3 m      |                                          |
|                                           |                                                                                     |                                                                                   | DCA1-5CS05H1 | Length (L): 5 m      |                                          |
|                                           |                                                                                     |                                                                                   | DCA1-5CS10H1 | Length (L): 10 m     |                                          |
| Shielded Branch Relay Box                 |  |                                                                                   | DCN2-S4C5H1  | 4 ports, 0.5-m cable |                                          |
|                                           |  |                                                                                   | DCN2-S8C5H1  | 8 ports, 0.5-m cable |                                          |

● Environment-resistive Models for Thick Wires with 7/8-16UN Mini Connectors

| Product                                    | Appearance                                                                          |                                                                                     | Model        | Specifications                                     |                                                                |
|--------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|----------------------------------------------------|----------------------------------------------------------------|
| Sealed T-branch Connector                  |    |                                                                                     | DCN3-11      | T-branch Connector                                 |                                                                |
|                                            |    |                                                                                     | DCN3-12      | T-branch Connector (Branch connector is M12.)      |                                                                |
| Sealed Connector with Terminating Resistor |    |                                                                                     | DRS3-1       | Plug                                               |                                                                |
| Cables with Sealed Connectors              |    |    | DCA2-5CN01W1 | Length (L): 1 m                                    | Cable with connectors on both ends                             |
|                                            |                                                                                     |                                                                                     | DCA2-5CN02W1 | Length (L): 2 m                                    |                                                                |
|                                            |                                                                                     |                                                                                     | DCA2-5CN05W1 | Length (L): 5 m                                    |                                                                |
|                                            |                                                                                     |                                                                                     | DCA2-5CN10W1 | Length (L): 10 m                                   |                                                                |
|                                            |    |    | DCA2-5CN01F1 | Length (L): 1 m                                    | Cable with connector on one end (socket)                       |
|                                            |                                                                                     |                                                                                     | DCA2-5CN02F1 | Length (L): 2 m                                    |                                                                |
|                                            |                                                                                     |                                                                                     | DCA2-5CN05F1 | Length (L): 5 m                                    |                                                                |
|                                            |                                                                                     |                                                                                     | DCA2-5CN10F1 | Length (L): 10 m                                   |                                                                |
|                                            |    |    | DCA2-5CN01H1 | Length (L): 1 m                                    | Cable with connector on one end (plug)                         |
|                                            |                                                                                     |                                                                                     | DCA2-5CN02H1 | Length (L): 2 m                                    |                                                                |
|                                            |                                                                                     |                                                                                     | DCA2-5CN05H1 | Length (L): 5 m                                    |                                                                |
|                                            |                                                                                     |                                                                                     | DCA2-5CN10H1 | Length (L): 10 m                                   |                                                                |
|                                            |   |  | DCA1-5CN01W5 | Length (L): 1 m                                    | Cable with connectors on both ends<br>Thin cable<br>M12 socket |
|                                            |                                                                                     |                                                                                     | DCA1-5CN02W5 | Length (L): 2 m                                    |                                                                |
|                                            |                                                                                     |                                                                                     | DCA1-5CN05W5 | Length (L): 5 m                                    |                                                                |
|                                            |                                                                                     |                                                                                     | DCA1-5CN10W5 | Length (L): 10 m                                   |                                                                |
| Panel-mounting Connector (female)          |  |                                                                                     | DCA2-5CNC5P1 | Panel-mounting connector (socket) with 0.5-m cable |                                                                |
| Panel-mounting Connector (male)            |  |                                                                                     | DCA2-5CNC5M1 | Panel-mounting connector (plug) with 0.5-m cable   |                                                                |
| Panel-mounting Connector (male)            |  |                                                                                     | XS4M-D521-1  | Panel-mounting connector (plug)<br>DIP terminals   |                                                                |
| Waterproof Cap (for Plug)                  | -                                                                                   |                                                                                     | XS4Z-11      | Used to cover an unused connector section.         |                                                                |
| Waterproof Cap (for Socket)                | -                                                                                   |                                                                                     | XS4Z-12      |                                                    |                                                                |

## Specifications

### ● Environment-resistive Connection Products (for Thin Cable, M12 Micro Connectors)

| Type                               | Connectors with Cables<br>DCA1-5CN□□□1                                                                                                                                             | T-branch Connector<br>DCN2-1 | Assembling-type Connector<br>XS2□-D5S7 | Connectors with Terminating<br>Resistor<br>DRS2-□ |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|---------------------------------------------------|
| Item                               |                                                                                                                                                                                    |                              |                                        |                                                   |
| Rated current                      | 3 A                                                                                                                                                                                |                              |                                        |                                                   |
| Rated voltage                      | 125 VDC                                                                                                                                                                            |                              |                                        |                                                   |
| Contact resistance<br>(connector)  | 40 mΩ max. (at 20 mVDC max. and 100 mA max.)                                                                                                                                       |                              |                                        |                                                   |
| Insulation resistance              | 1,000 MΩ min. (at 500 VDC)                                                                                                                                                         |                              |                                        |                                                   |
| Dielectric strength<br>(connector) | 1,500 VAC for 60 seconds (leakage current: 1 mA max.)                                                                                                                              |                              |                                        |                                                   |
| Ambient operating<br>temperature   | -20°C to 65°C                                                                                                                                                                      |                              |                                        |                                                   |
| Storage temperature<br>range       | -25°C to 70°C                                                                                                                                                                      |                              |                                        |                                                   |
| Degree of protection               | IEC IP67                                                                                                                                                                           |                              |                                        |                                                   |
| Insertion durability               | 200 times                                                                                                                                                                          |                              |                                        |                                                   |
| Cable strength                     | 98 N for 15 s                                                                                                                                                                      | --                           |                                        |                                                   |
| Vibration resistance               | No current interruptions of more than 1 μs while performing simple vibrations at either 10 to 500 Hz with 1.52-mm full amplitude or at acceleration 100 m/s², whichever is smaller |                              |                                        |                                                   |

### ● Environment-resistive Models (for Thin Wires and M12 Micro Connectors)

| Type                            | Connectors with Cables<br>DCA1-5CS□□□1                                                                                                                                             | T-branch Connector<br>DCN2-1S | Connectors with Terminating Resistor<br>DRS2-□S | Branch Relay Box<br>DCN2-S□C5H |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------|--------------------------------|
| Item                            |                                                                                                                                                                                    |                               |                                                 |                                |
| Rated current                   | 3 A                                                                                                                                                                                |                               |                                                 |                                |
| Rated voltage                   | 125 VDC                                                                                                                                                                            |                               |                                                 |                                |
| Contact resistance (connector)  | 40 mΩ max. (at 20 mVDC max. and 100 mA max.)                                                                                                                                       |                               |                                                 |                                |
| Insulation resistance           | 1,000 MΩ min. (at 500 VDC)                                                                                                                                                         |                               |                                                 |                                |
| Dielectric strength (connector) | 1,500 VAC for 60 seconds (leakage current: 1 mA max.)                                                                                                                              |                               |                                                 | 1,000 VAC for 60 seconds       |
| Ambient operating temperature   | -20°C to 65°C                                                                                                                                                                      |                               |                                                 |                                |
| Storage temperature range       | -25°C to 70°C                                                                                                                                                                      |                               |                                                 |                                |
| Degree of protection            | IEC IP67                                                                                                                                                                           |                               |                                                 |                                |
| Insertion durability            | 200 times                                                                                                                                                                          |                               |                                                 |                                |
| Cable strength                  | 98 N for 15 s                                                                                                                                                                      | --                            |                                                 |                                |
| Vibration resistance            | No current interruptions of more than 1 μs while performing simple vibrations at either 10 to 500 Hz with 1.52-mm full amplitude or at acceleration 100 m/s², whichever is smaller |                               |                                                 |                                |
| Lock strength                   | Pulling: 100 N/15 s, Rotating: 1 N·m/15 s                                                                                                                                          |                               |                                                 |                                |
| Lock force                      | 0.1 to 0.25 N·m                                                                                                                                                                    |                               |                                                 |                                |

### ● Environment-resistive Models for Thick Wires with 7/8-16UN Mini Connectors

| Type                            | Connectors with Thick Cables<br>DCA2-5CN□□□1                                                                                                                                                    | Connectors with Thin Cables<br>DCA1-5CN□□□W5 | T-branch Connector<br>DCN3-11 | T-branch Connector<br>DCN3-12 | Connectors with Terminating Resistor<br>DRS3-1 | Panel Mounting Connector<br>DCA2-5CNC5P1 | Panel Mounting Connector<br>XS4M-D521-1 |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------|-------------------------------|------------------------------------------------|------------------------------------------|-----------------------------------------|
| Item                            |                                                                                                                                                                                                 |                                              |                               |                               |                                                |                                          |                                         |
| Rated current                   | 8 A                                                                                                                                                                                             | 3 A                                          | 8 A                           | 3 A *                         | 8 A                                            |                                          |                                         |
| Rated voltage                   | 125 VDC                                                                                                                                                                                         |                                              |                               |                               |                                                |                                          |                                         |
| Contact resistance (connector)  | 30 mΩ max. (at 20 mVDC max. and 100 mA max.)                                                                                                                                                    |                                              |                               |                               |                                                |                                          |                                         |
| Insulation resistance           | 1,000 MΩ min. (at 500 VDC)                                                                                                                                                                      |                                              |                               |                               |                                                |                                          |                                         |
| Dielectric strength (connector) | 1,500 VAC for 60 seconds (leakage current: 1 mA max.)                                                                                                                                           |                                              |                               |                               |                                                |                                          |                                         |
| Ambient operating temperature   | -20°C to 65°C                                                                                                                                                                                   |                                              |                               |                               |                                                |                                          |                                         |
| Storage temperature range       | -25°C to 70°C                                                                                                                                                                                   |                                              |                               |                               |                                                |                                          |                                         |
| Degree of protection            | IEC IP67                                                                                                                                                                                        |                                              |                               |                               |                                                |                                          |                                         |
| Insertion durability            | 200 times                                                                                                                                                                                       |                                              |                               |                               |                                                |                                          |                                         |
| Cable strength                  | 98 N for 15 s                                                                                                                                                                                   |                                              |                               | --                            |                                                | 98 N for 15 s                            | --                                      |
| Vibration resistance            | No current interruptions of more than 1 μs while performing simple vibrations at either 10 to 500 Hz with 1.52-mm full amplitude or at acceleration 100 m/s <sup>2</sup> , whichever is smaller |                                              |                               |                               |                                                |                                          |                                         |

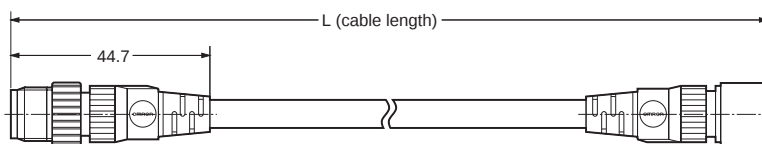
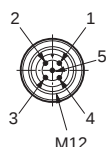
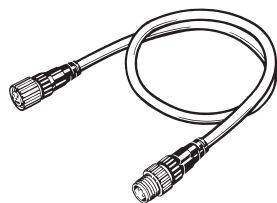
\* The rated current between thick wires is 8 A.

## Dimensions

### ● Environment-resistive Connection Products (for Thin Cable, M12 Micro Connectors)

#### Cables with Connectors on Both Ends

DCA1-5CN□□W1

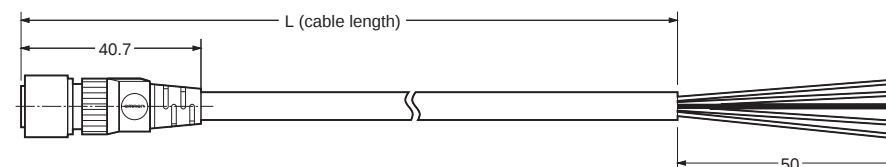
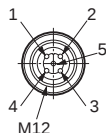
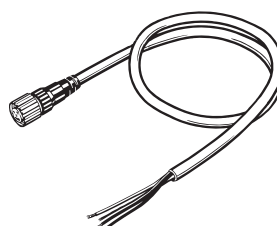


#### Wiring

| Terminal No. | Color | Name  |
|--------------|-------|-------|
| 1            | -     | DRAIN |
| 2            | Red   | V+    |
| 3            | Black | V-    |
| 4            | White | CAN H |
| 5            | Blue  | CAN L |

#### Cables with Connector on Single End (Socket)

DCA1-5CN□□F1

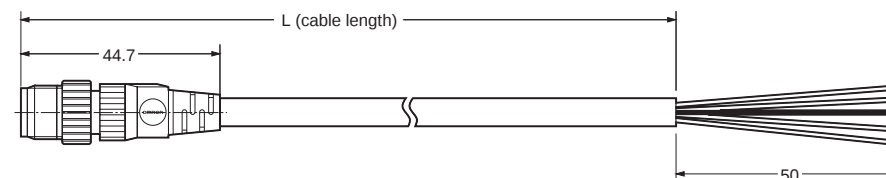
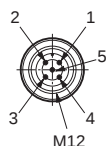
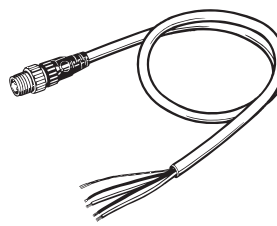


#### Wiring

| Terminal No. | Color | Name  |
|--------------|-------|-------|
| 1            | -     | DRAIN |
| 2            | Red   | V+    |
| 3            | Black | V-    |
| 4            | White | CAN H |
| 5            | Blue  | CAN L |

#### Cables with Connector on Single End (Plug)

DCA1-5CN□□H1

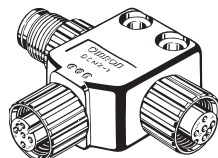


#### Wiring

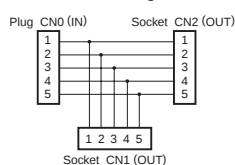
| Terminal No. | Color | Name  |
|--------------|-------|-------|
| 1            | -     | DRAIN |
| 2            | Red   | V+    |
| 3            | Black | V-    |
| 4            | White | CAN H |
| 5            | Blue  | CAN L |

#### T-branch Connector

DCN2-1

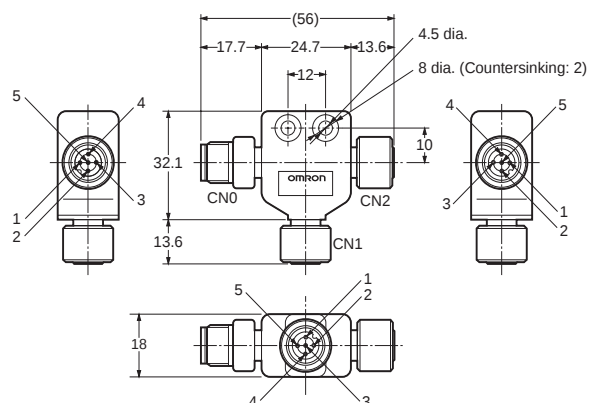


#### Connections Diagram



#### Wiring

| Terminal No. | Name   |
|--------------|--------|
| 1            | SHIELD |
| 2            | V+     |
| 3            | V-     |
| 4            | CAN H  |
| 5            | CAN L  |



#### Connectors with Terminating Resistance

DRS2-1 (Plug)

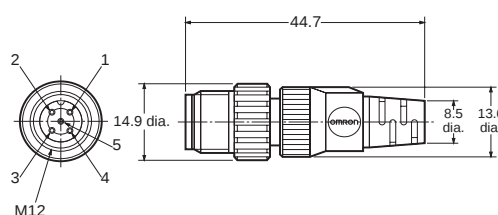
DRS2-2 (Socket)



#### Wiring

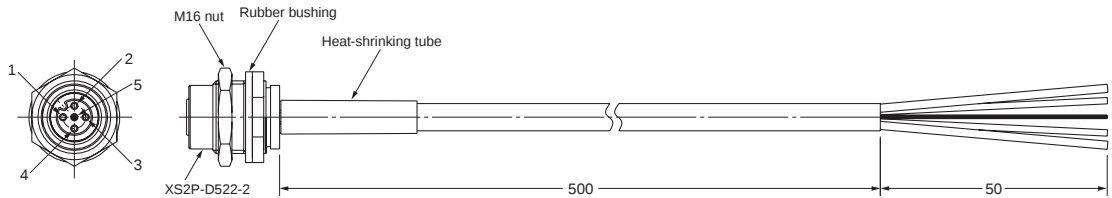
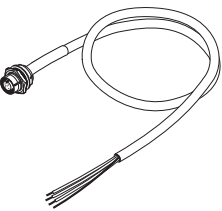
| Terminal No. | Name          |
|--------------|---------------|
| 1            | DRAIN : NC    |
| 2            | V+ : NC       |
| 3            | V- : NC       |
| 4            | CAN H : 121 Ω |
| 5            | CAN L : 121 Ω |

**Note:** Terminating resistance (121 Ω) is connected between terminals 4 and 5.



**Note:** The diagram shows the DRS2-1 (plug).

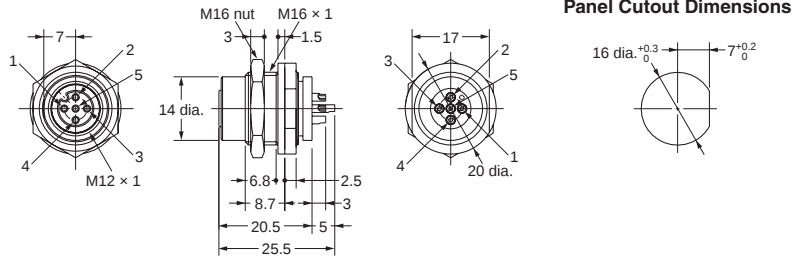
Panel-mounting Connector (Socket) with 0.5 m Cable  
DCA1-5CNC5P1



Wiring

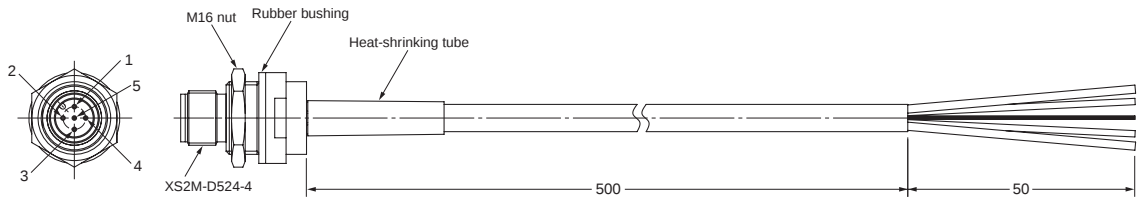
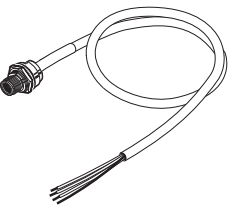
| Terminal No. | Color | Name  |
|--------------|-------|-------|
| 1            | -     | DRAIN |
| 2            | Red   | V+    |
| 3            | Black | V-    |
| 4            | White | CAN H |
| 5            | Blue  | CAN L |

Panel-mounting Connector (Socket), Solder-cup Terminals  
XS2P-D522-2



Panel Cutout Dimensions

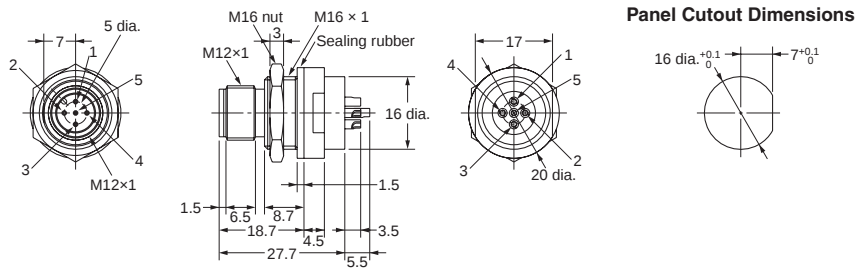
Panel-mounting Connector (Plug) with 0.5 m Cable  
DCA1-5CNC5M1



Wiring

| Terminal No. | Color | Name  |
|--------------|-------|-------|
| 1            | -     | DRAIN |
| 2            | Red   | V+    |
| 3            | Black | V-    |
| 4            | White | CAN H |
| 5            | Blue  | CAN L |

Panel-mounting Connector (Socket), Solder-cup Terminals  
XS2M-D524-4

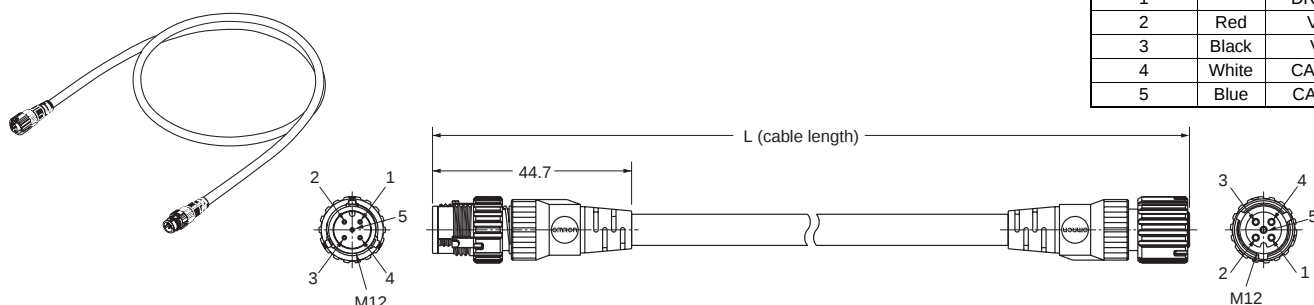


Panel Cutout Dimensions

● Environment-resistive Models (for Thin Wires and M12 Micro Connectors)

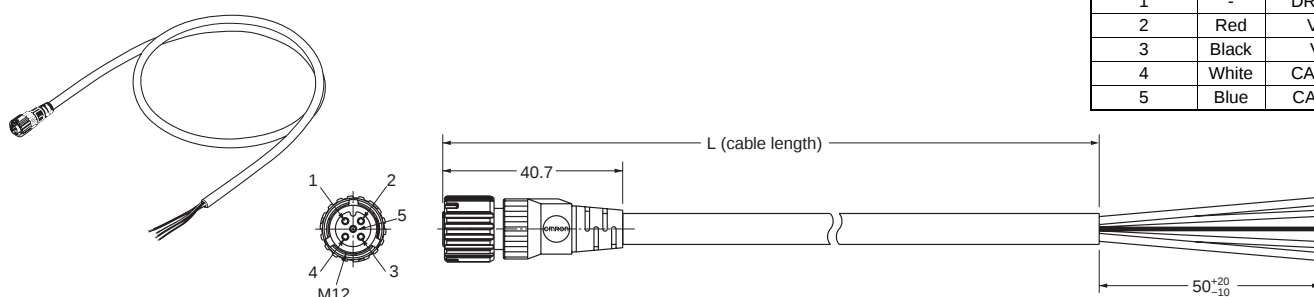
Cables with Connectors on Both Ends

DCA1-5CS□□W1



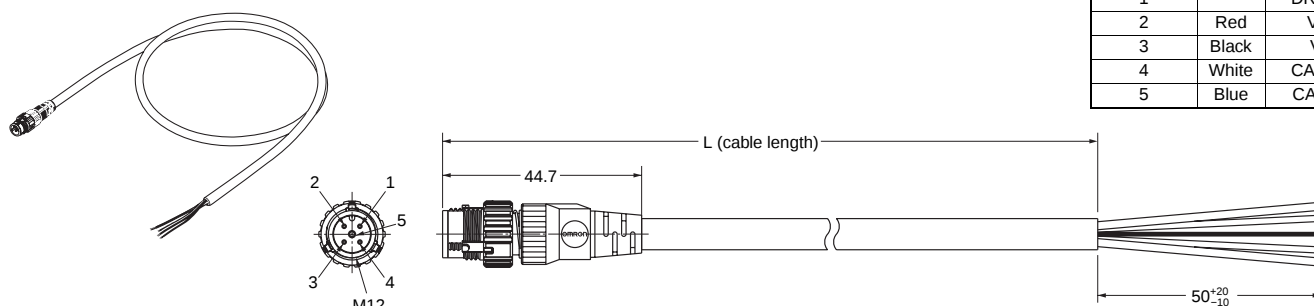
Cables with Connector on Single End (Socket)

DCA1-5CS□□F1



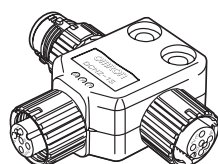
Cables with Connector on Single End (Plug)

DCA1-5CS□□H1

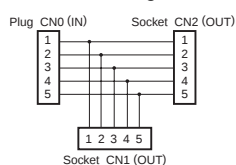


T-branch Connector

DCN2-1S

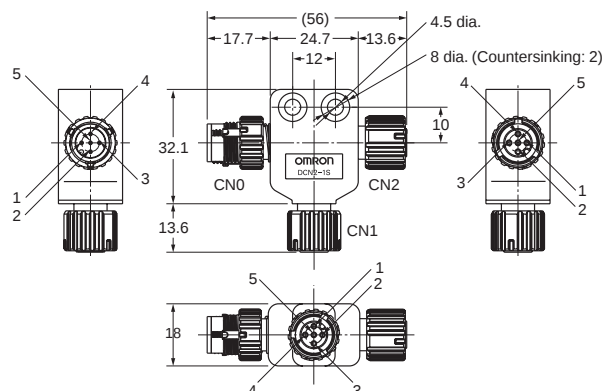


Connections Diagram



Wiring

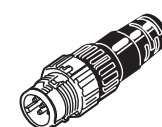
| Terminal No. | Name   |
|--------------|--------|
| 1            | SHIELD |
| 2            | V+     |
| 3            | V-     |
| 4            | CAN H  |
| 5            | CAN L  |



Connectors with Terminating Resistance

DRS2-1S (Plug)

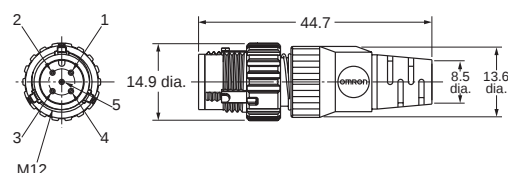
DRS2-2S (Socket)



Wiring

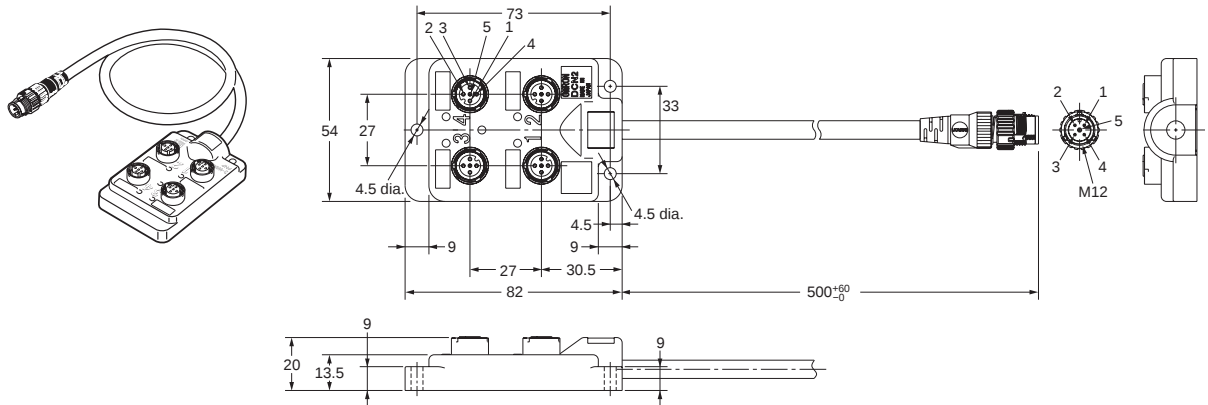
| Terminal No. | Name                      |
|--------------|---------------------------|
| 1            | DRAIN : NC                |
| 2            | V+ : NC                   |
| 3            | V- : NC                   |
| 4            | CAN H : $\sim 121 \Omega$ |
| 5            | CAN L : $\sim 121 \Omega$ |

**Note:** Terminating resistance (121  $\Omega$ ) is connected between terminals 4 and 5.

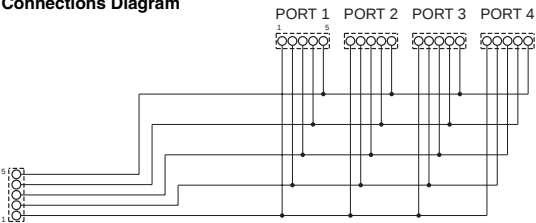


**Note:** The diagram shows the DRS2-1 (plug).

Shielded Branch Relay Box with Four Ports  
DCN2-S4C5H1



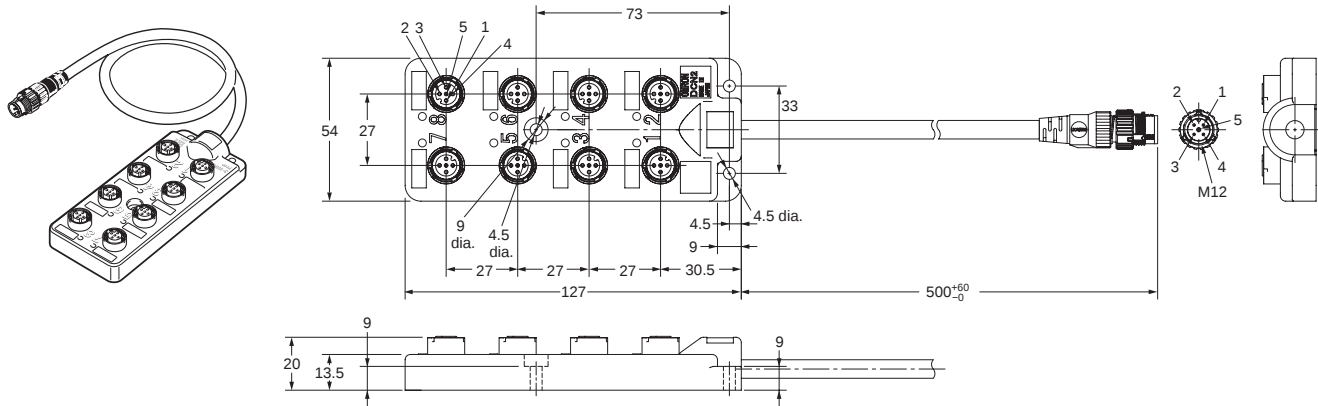
Connections Diagram



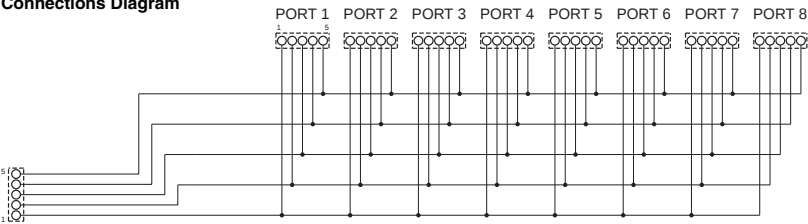
Wiring

| Terminal No. | Color | Name  |
|--------------|-------|-------|
| 1            | -     | DRAIN |
| 2            | Red   | V+    |
| 3            | Black | V-    |
| 4            | White | CAN H |
| 5            | Blue  | CAN L |

Shielded Branch Relay Box with Eight Ports  
DCN2-S8C5H1



Connections Diagram

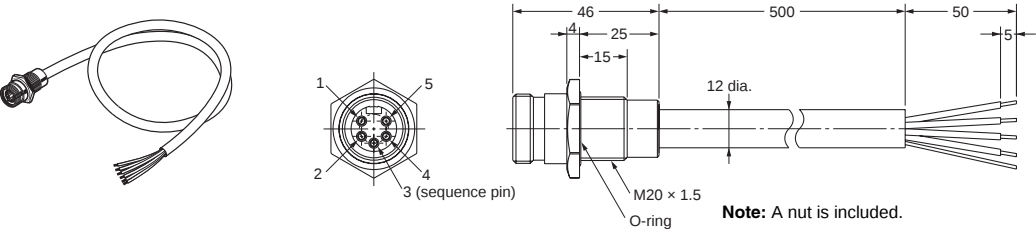


Wiring

| Terminal No. | Color | Name  |
|--------------|-------|-------|
| 1            | -     | DRAIN |
| 2            | Red   | V+    |
| 3            | Black | V-    |
| 4            | White | CAN H |
| 5            | Blue  | CAN L |



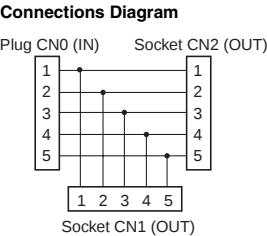
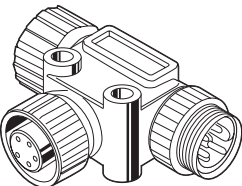
Panel-mounting Connector (Plug) with 0.5 m Cable  
DCA2-5CNC5M1



Wiring

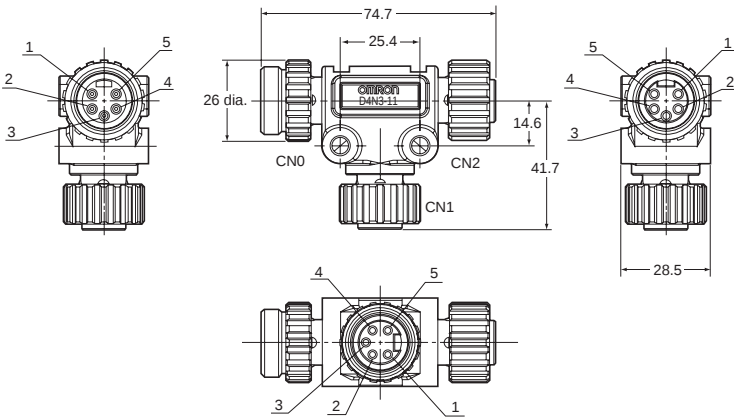
| Terminal No. | Color | Name  |
|--------------|-------|-------|
| 1            | -     | DRAIN |
| 2            | Red   | V+    |
| 3            | Black | V-    |
| 4            | White | CAN H |
| 5            | Blue  | CAN L |

T-branch Connector (5 Conductors for Communications,  
Thick Wire Branch Line)  
DCN3-11

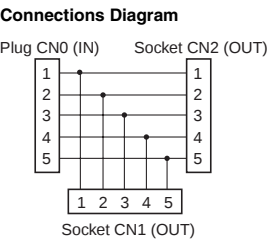
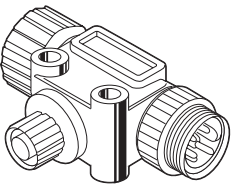


Wiring

| Terminal No. | Name  |
|--------------|-------|
| 1            | DRAIN |
| 2            | V+    |
| 3            | V-    |
| 4            | CAN H |
| 5            | CAN L |

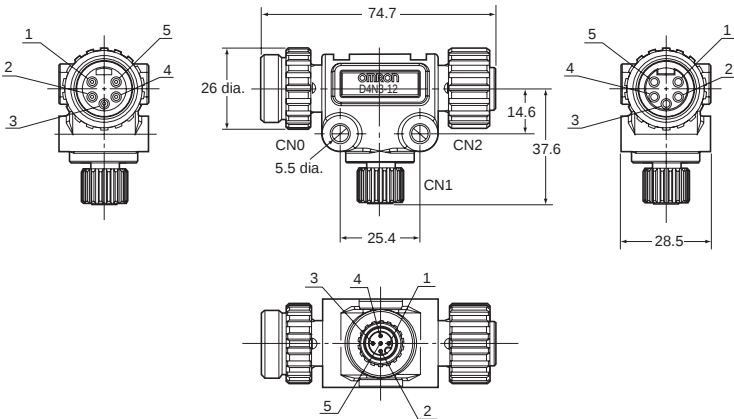


T-branch Connector (5 Conductors for Communications,  
Thin Wire Branch Line)  
DCN3-12

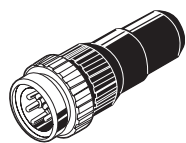


Wiring

| Terminal No. | Name  |
|--------------|-------|
| 1            | DRAIN |
| 2            | V+    |
| 3            | V-    |
| 4            | CAN H |
| 5            | CAN L |



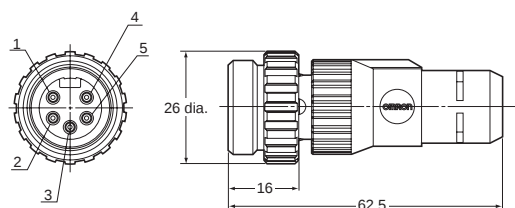
# Connector (Plug) with Terminating Resistance DRS3-1



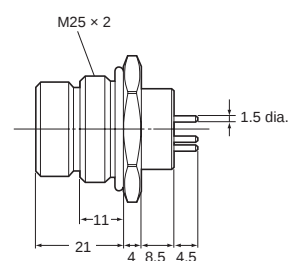
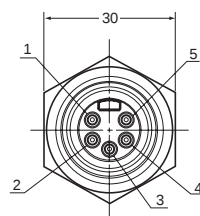
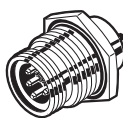
## Wiring

| Terminal No. | Name                               |
|--------------|------------------------------------|
| 1            | DRAIN : NC                         |
| 2            | V+ : NC                            |
| 3            | V- : NC                            |
| 4            | CAN H : $\rightarrow$ 121 $\Omega$ |
| 5            | CAN L : $\rightarrow$ 121 $\Omega$ |

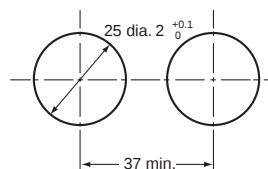
**Note:** Terminating resistance (121  $\Omega$ ) is connected between terminals 4 and 5.



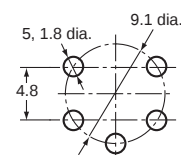
# Panel-mounting Connector (5 Pins for Communications) XS4M-D521-1



## Panel Cutout Dimensions



## PCB Processing Dimensions

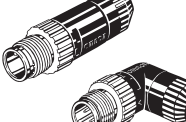


**Note:** A rubber seal and nut for panel mounting are included.

## I/O Peripheral Devices

### Applicable Connectors

#### ● Assembly Connector Plugs for M12 Microconnectors

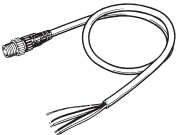
| Appearance                                                                        | Applicable cable diameter (mm) | Cable direction | Number of poles | Connection method |           |           |
|-----------------------------------------------------------------------------------|--------------------------------|-----------------|-----------------|-------------------|-----------|-----------|
|                                                                                   |                                |                 |                 | Crimping          | Soldering | Screws    |
|  | For 6 dia.<br>(5 to 6 dia.)    | Straight        | 4               | XS2G-D4C1         | XS2G-D421 | XS2G-D4S1 |
|                                                                                   |                                | L-shaped        |                 | --                | XS2G-D422 | XS2G-D4S2 |
|                                                                                   | For 5 dia.<br>(4 to 5 dia.)    | Straight        |                 | XS2G-D4C3         | XS2G-D423 | XS2G-D4S3 |
|                                                                                   |                                | L-shaped        |                 | --                | XS2G-D424 | XS2G-D4S4 |
|                                                                                   | For 3 dia.<br>(3 to 4 dia.)    | Straight        |                 | XS2G-D4C5         | XS2G-D425 | XS2G-D4S5 |
|                                                                                   |                                | L-shaped        |                 | --                | XS2G-D426 | XS2G-D4S6 |
|                                                                                   | For 7 dia.<br>(6 to 7 dia.)    | Straight        |                 | --                | --        | XS2G-D4S9 |
|                                                                                   | For 8 dia.<br>(7 to 8 dia.)    |                 |                 | --                | --        | XS2G-D4S7 |

### Applicable Cables with Connectors

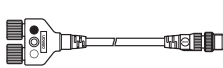
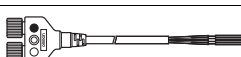
#### ● Cables with Connector (Socket/Plug) on Both Ends (M12 Microconnectors for Power Supply and I/O)

| Appearance                                                                         | Cable direction   | Number of core wires | Cable length (m) | Standard cable  | Robot (earthquake-resistant) cable |
|------------------------------------------------------------------------------------|-------------------|----------------------|------------------|-----------------|------------------------------------|
|  | Straight/Straight | 4                    | 1                | XS2W-D421-C81-A | XS2W-D421-C81-R                    |
|                                                                                    |                   |                      | 2                | XS2W-D421-D81-A | XS2W-D421-D81-R                    |
|                                                                                    |                   |                      | 5                | XS2W-D421-G81-A | XS2W-D421-G81-R                    |
|                                                                                    | L-shaped/L-shaped |                      | 2                | XS2W-D422-D81-A | --                                 |
|                                                                                    |                   |                      | 5                | XS2W-D422-G81-A |                                    |
|                                                                                    | Straight/L-shaped |                      | 2                | XS2W-D423-D81-A |                                    |
|                                                                                    |                   |                      | 5                | XS2W-D423-G81-A |                                    |
|                                                                                    | L-shaped/Straight |                      | 2                | XS2W-D424-D81-A |                                    |
|                                                                                    |                   |                      | 5                | XS2W-D424-G81-A |                                    |

#### ● Cables with connector plug on One End (M12 Microconnectors for I/O)

| Appearance                                                                          | Cable direction | Number of core wires | Cable length (m) | Standard cable  |
|-------------------------------------------------------------------------------------|-----------------|----------------------|------------------|-----------------|
|  | Straight        | 3                    | 0.3              | XS2H-D421-AC0-A |
|                                                                                     |                 | 4                    |                  | XS2H-D421-A80-A |
|                                                                                     |                 | 3                    | 1                | XS2H-D421-CC0-A |
|                                                                                     |                 | 4                    |                  | XS2H-D421-C80-A |

#### ● Plugs and Sockets on Y-shaped Joints (M12 Microconnectors for I/O)

| Appearance                                                                          | Cable         | Connector               | DC models        |                 |
|-------------------------------------------------------------------------------------|---------------|-------------------------|------------------|-----------------|
|                                                                                     |               |                         | Cable length (m) | Model           |
|  | With cable    | Connectors on both ends | 0.5              | XS2R-D426-B11-F |
|                                                                                     |               |                         | 1                | XS2R-D426-C11-F |
|                                                                                     |               |                         | 2                | XS2R-D426-D11-F |
|                                                                                     |               |                         | 3                | XS2R-D426-E11-F |
|  |               | Connector on one end    | 2                | XS2R-D426-D10-F |
|                                                                                     |               |                         | 5                | XS2R-D426-G10-F |
|  | Without cable | Connectors on both ends | --               | XS2R-D426-1     |

**Note:** Use is supported only for Environment-resistive Terminals (DRT2-□D16C(L)(-1)).

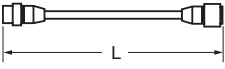
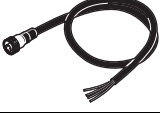
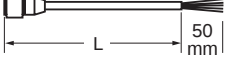
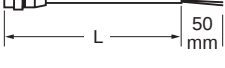
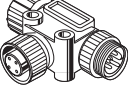
#### ● Connector Cover for M12 Microconnectors

| Appearance                                                                          | Product                   | Model   | Application                        |
|-------------------------------------------------------------------------------------|---------------------------|---------|------------------------------------|
|  | Waterproof cover (socket) | XS2Z-22 | For covering unused I/O connectors |

## Power Supply Peripheral Devices

### Applicable Cables with Connectors

#### ● Power Supply Connectors (7/8-16UN Miniconnectors)

| Appearance                                                                         | Product                                                                           | Cable length L (mm) | Model           |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------|-----------------|
|   |  | 1                   | XS4W-D421-101-A |
|                                                                                    |                                                                                   | 2                   | XS4W-D421-102-A |
|                                                                                    |                                                                                   | 5                   | XS4W-D421-105-A |
|                                                                                    |                                                                                   | 10                  | XS4W-D421-110-A |
|   |  | 1                   | XS4F-D421-101-A |
|                                                                                    |                                                                                   | 2                   | XS4F-D421-102-A |
|                                                                                    |                                                                                   | 5                   | XS4F-D421-105-A |
|                                                                                    |                                                                                   | 10                  | XS4F-D421-110-A |
|   |  | 1                   | XS4H-D421-101-A |
|                                                                                    |                                                                                   | 2                   | XS4H-D421-102-A |
|                                                                                    |                                                                                   | 5                   | XS4H-D421-105-A |
|                                                                                    |                                                                                   | 10                  | XS4H-D421-110-A |
|   | T-branch Connector                                                                | --                  | XS4R-D424-5     |
|   | Panel mounting connector socket<br>Cable: 50 cm                                   | --                  | XS4P-D421-1C5-A |
|  | Panel mounting connector plug<br>DIP terminals                                    | --                  | XS4M-D421-1     |
| -                                                                                  | Waterproofing Cap for Plug                                                        | --                  | XS4Z-11         |
| -                                                                                  | Waterproofing Cap for Socket                                                      | --                  | XS4Z-12         |

## Read and Understand This Catalog

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