

Peripheral Devices for Environment-resistive Slaves

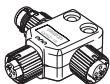

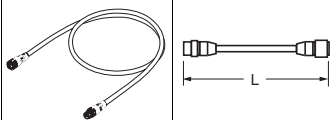
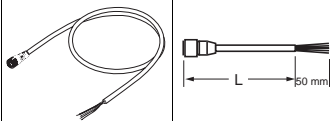
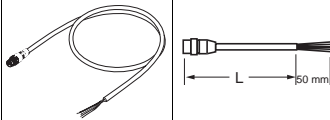


Peripheral Devices for DeviceNet Communications

Ordering Information

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

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

● 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
		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
		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
		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
		DCA2-5CN02W1	Length (L): 2 m
		DCA2-5CN05W1	Length (L): 5 m
		DCA2-5CN10W1	Length (L): 10 m
		DCA2-5CN01F1	Length (L): 1 m
		DCA2-5CN02F1	Length (L): 2 m
		DCA2-5CN05F1	Length (L): 5 m
		DCA2-5CN10F1	Length (L): 10 m
		DCA2-5CN01H1	Length (L): 1 m
		DCA2-5CN02H1	Length (L): 2 m
		DCA2-5CN05H1	Length (L): 5 m
		DCA2-5CN10H1	Length (L): 10 m
		DCA1-5CN01W5	Length (L): 1 m
		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) 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 DCA1-5CN□□□1	T-branch Connector DCN2-1	Assembling-type Connector XS2□-D5S7	Connectors with Terminating Resistor DRS2-□
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.)			
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/s ² , whichever is smaller			

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

Type	Connectors with Cables DCA1-5CS□□□1	T-branch Connector DCN2-1S	Connectors with Terminating Resistor DRS2-□S	Branch Relay Box DCN2-S□C5H
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/s ² , 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 DCA2-5CN□□□1	Connectors with Thin Cables DCA1-5CN□□□W5	T-branch Connector DCN3-11	T-branch Connector DCN3-12	Connectors with Terminating Resistor DRS3-1	Panel Mounting Connector DCA2-5CNC5P1	Panel Mounting Connector XS4M-D521-1
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 ² , whichever is smaller						

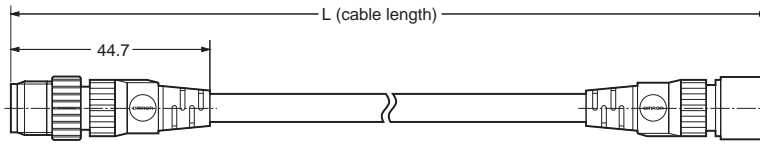
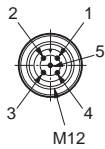
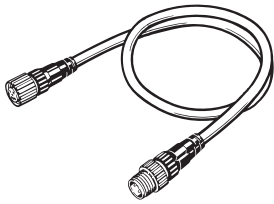
* The rated current between thick wires is 8 A.

Dimensions

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

Cables with Connectors on Both Ends

DCA1-5CN□□W1

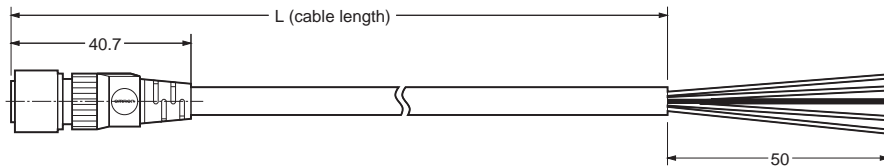
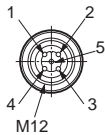
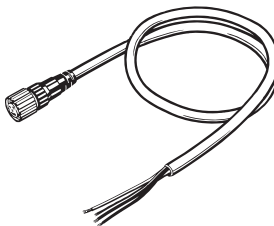


Wiring

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

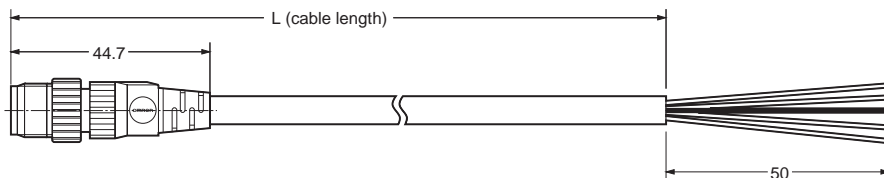
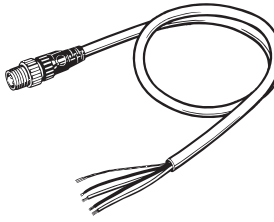


Wiring

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

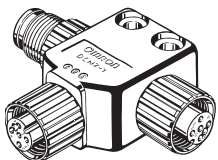


Wiring

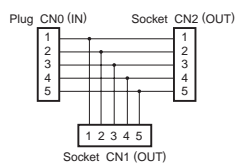
Terminal No.	Color	Name
1	-	DRAIN
2	Red	V+
3	Black	V-
4	White	CAN H
5	Blue	CAN L

T-branch Connector

DCN2-1

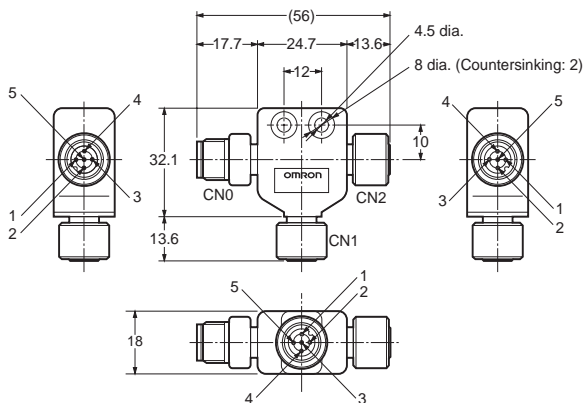


Connections Diagram



Wiring

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



Connectors with Terminating Resistance

DRS2-1 (Plug)

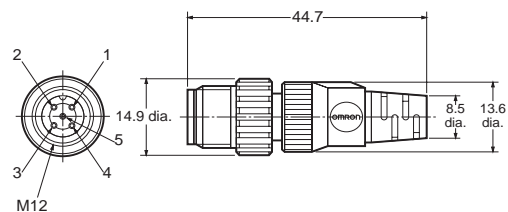
DRS2-2 (Socket)



Wiring

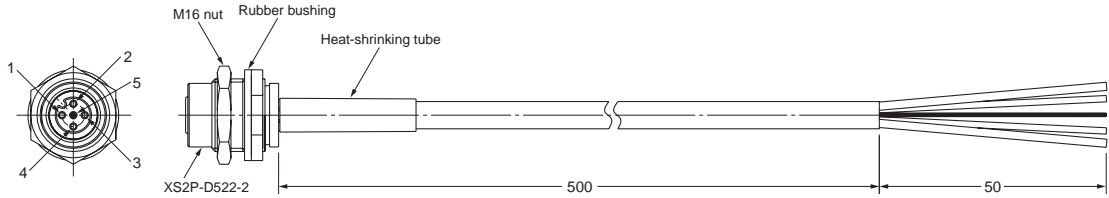
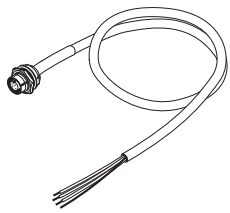
Terminal No.	Name
1	DRAIN : NC
2	V+ : NC
3	V- : NC
4	CAN H : 121 Ω
5	CAN L : 121 Ω

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



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

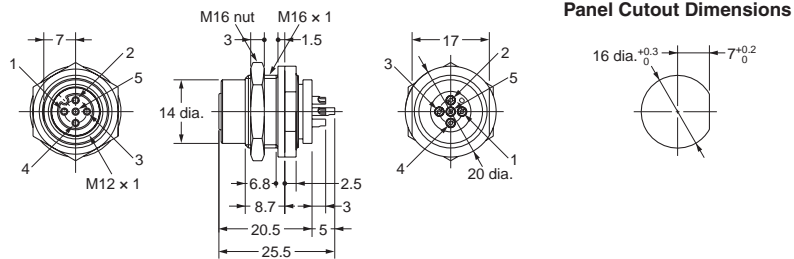
Panel-mounting Connector (Socket) with 0.5 m Cable
DCA1-5CNC5P1



Wiring

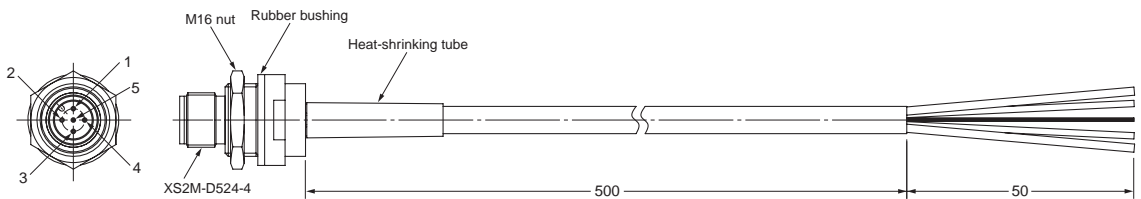
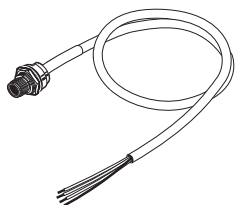
Terminal No.	Color	Name
1	-	DRAIN
2	Red	V+
3	Black	V-
4	White	CAN H
5	Blue	CAN L

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



Panel Cutout Dimensions

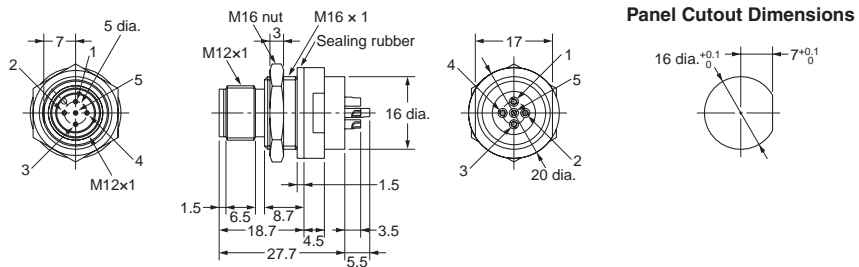
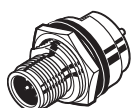
Panel-mounting Connector (Plug) with 0.5 m Cable
DCA1-5CNC5M1



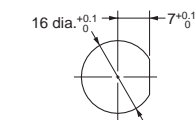
Wiring

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

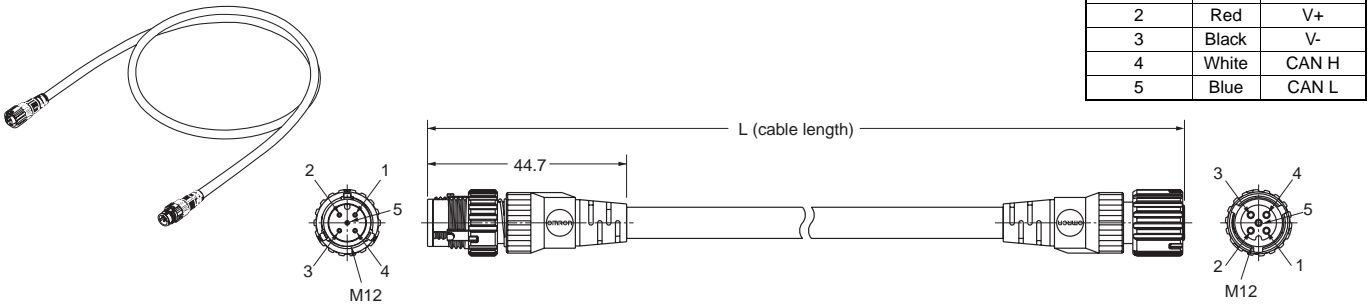


Panel Cutout Dimensions

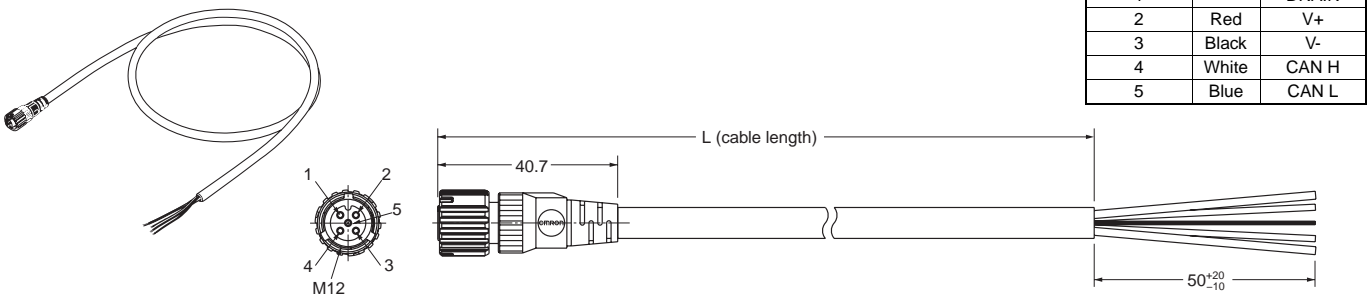


● Environment-resistive Models (for Thin Wires and M12 Micro Connectors)

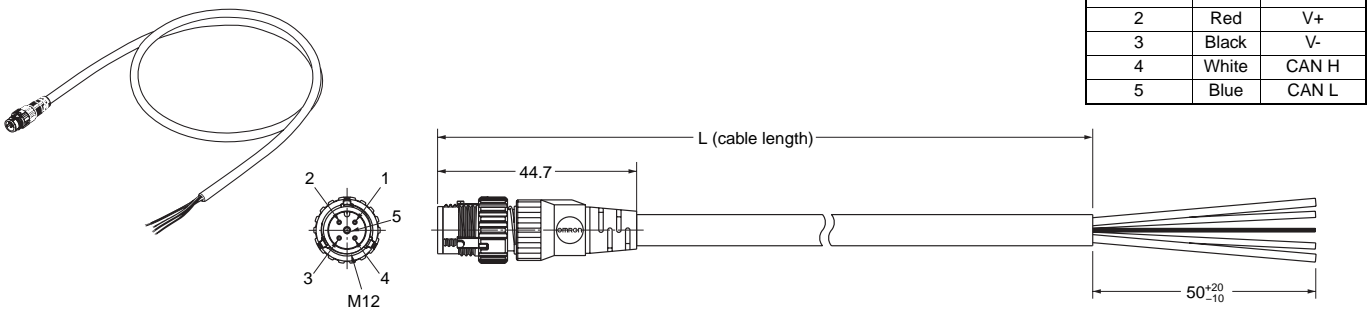
Cables with Connectors on Both Ends
DCA1-5CS□□W1



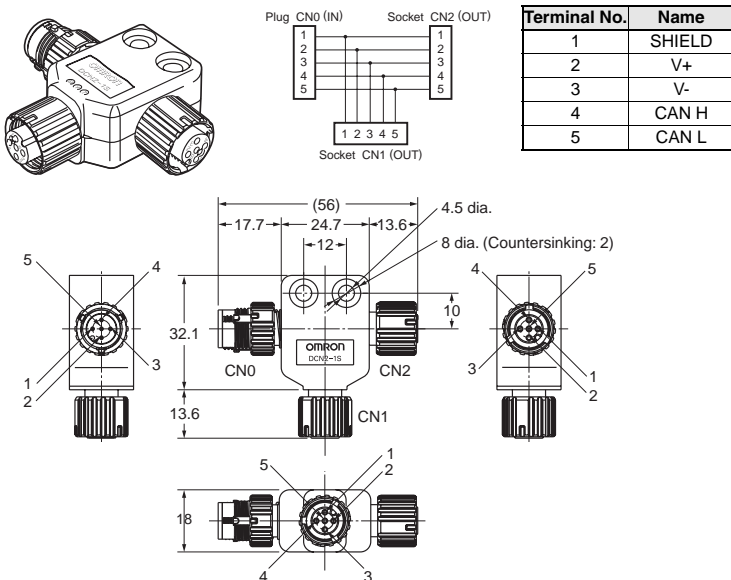
Cables with Connector on Single End (Socket)
DCA1-5CS□□F1



Cables with Connector on Single End (Plug)
DCA1-5CS□□H1

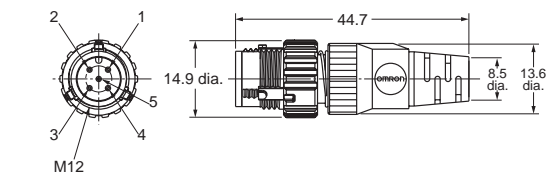
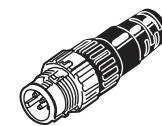


T-branch Connector
DCN2-1S



Connectors with Terminating Resistance

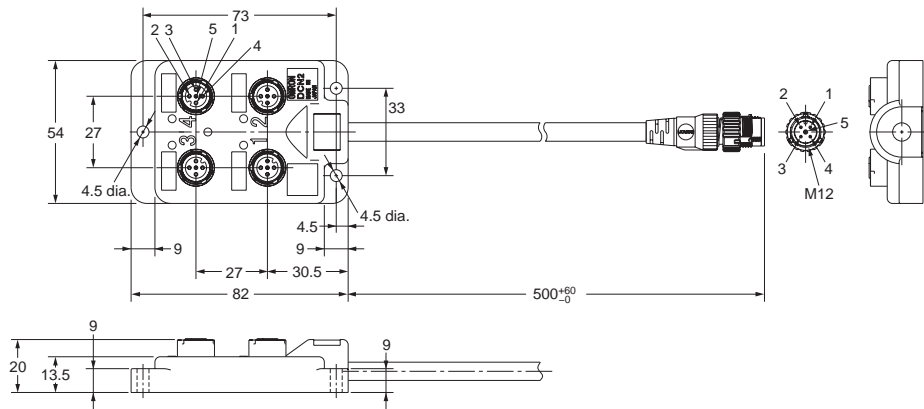
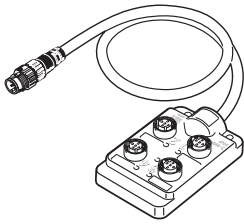
DRS2-1S (Plug)
DRS2-2S (Socket)



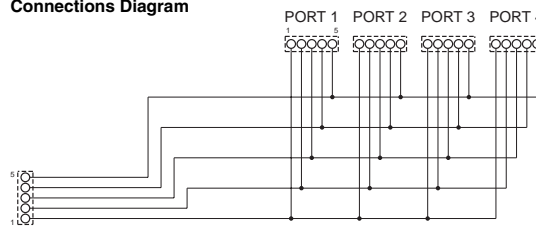
Note: Terminating resistance (121 Ω) is connected between terminals 4 and 5.

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

Shielded Branch Relay Box with Four Ports
DCN2-S4C5H1



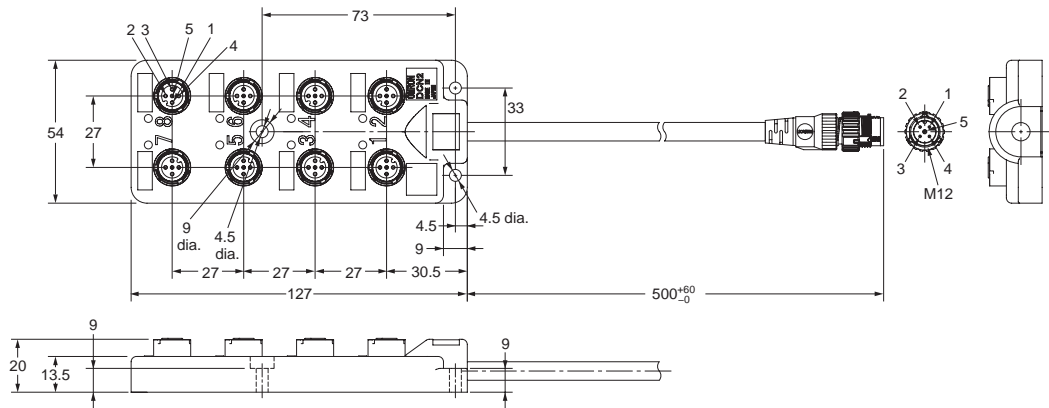
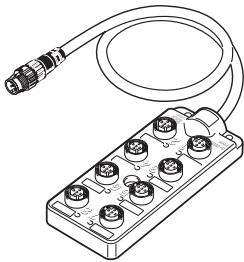
Connections Diagram



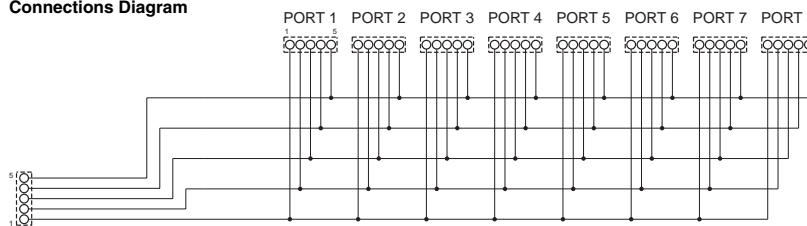
Wiring

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

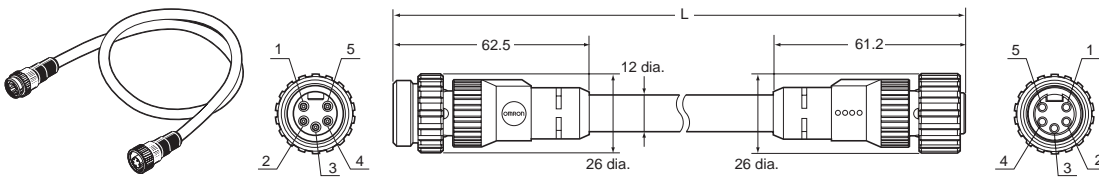


Wiring

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

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

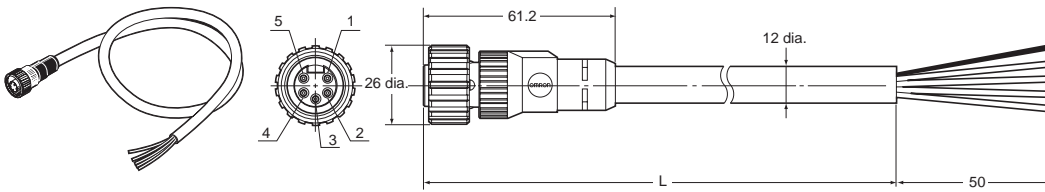
Thick Cable with Connectors on Both Ends (5 Conductors for Communications)
DCA2-5CN□□W1



Wiring

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

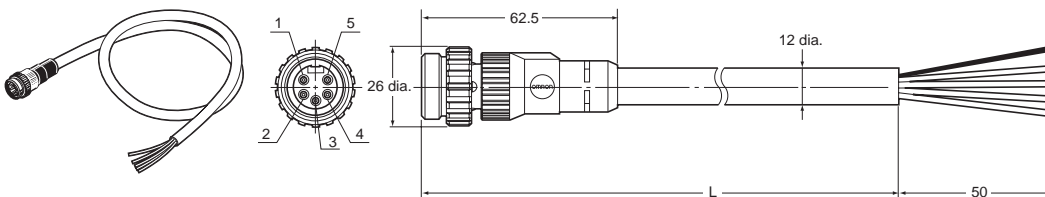
Thick Cable with Connector Socket on One End (5 Conductors for Communications)
DCA2-5CN□□F1



Wiring

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

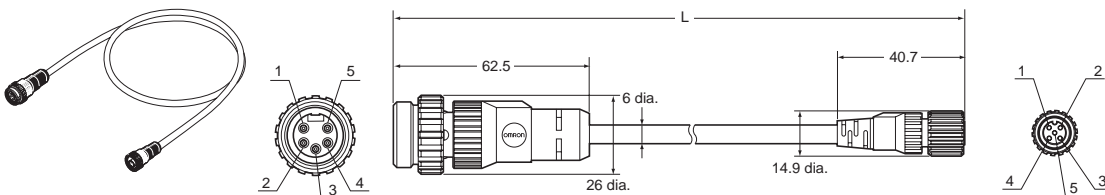
Thick Cable with Connector Plug on One End (5 Conductors for Communications)
DCA2-5CN□□H1



Wiring

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

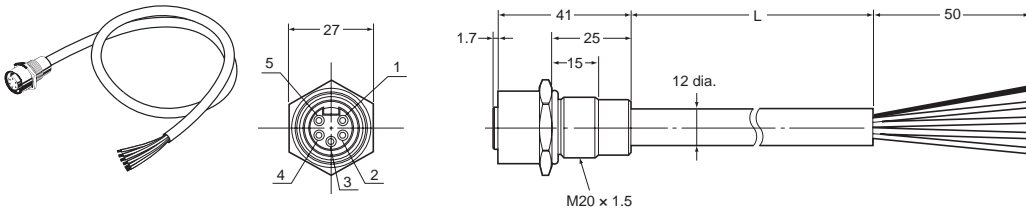
Thin Cable with Connectors on Both Ends (5 Conductors for Communications)
DCA1-5CN□□W5



Wiring

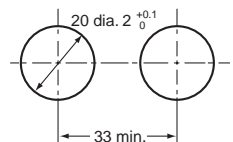
Terminal No.	Color	Name
1	-	DRAIN
2	Red	V+
3	Black	V-
4	White	CAN H
5	Blue	CAN L

Thin Cable with Panel-mounting Connector Socket on One End (5 Conductors for Communications)
DCA2-5CNC5P1



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

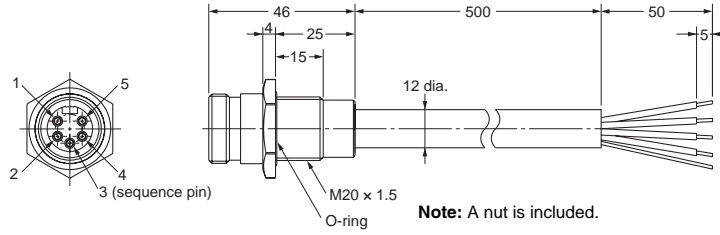
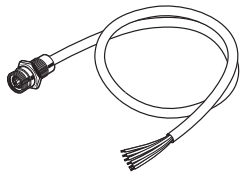
Panel Cutout Dimensions



Wiring

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

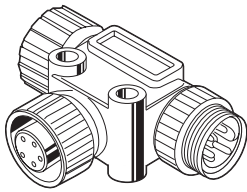
**Panel-mounting Connector (Plug) with 0.5 m Cable
DCA2-5CNC5M1**



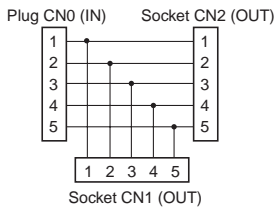
Wiring

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**

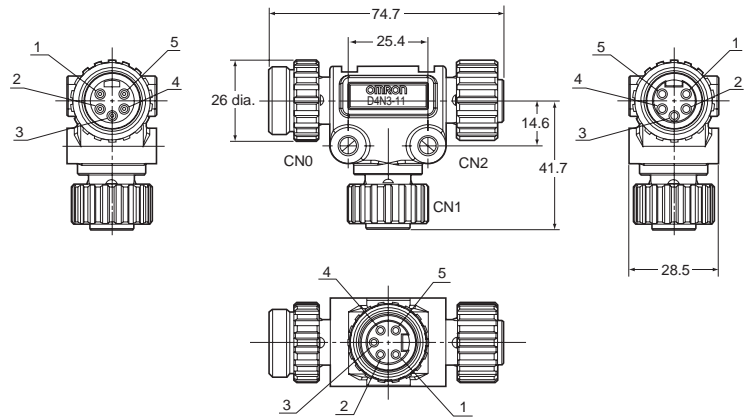


Connections Diagram

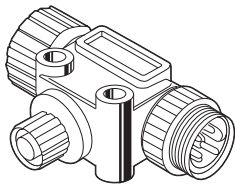


Wiring

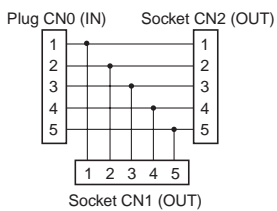
Terminal No.	Name
1	DRAIN
2	V+
3	V-
4	CAN H
5	CAN L



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

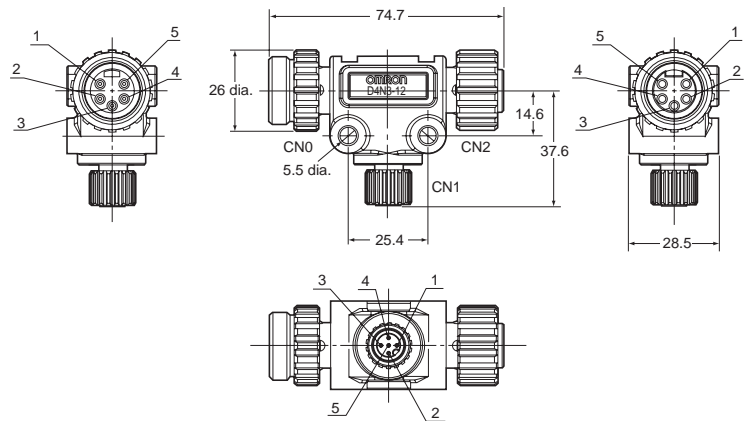


Connections Diagram

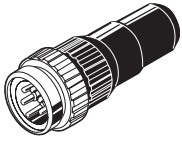


Wiring

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



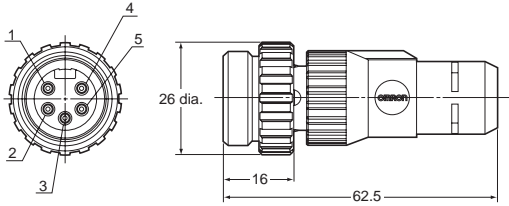
**Connector (Plug) with Terminating Resistance
DRS3-1**



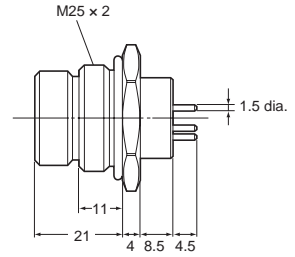
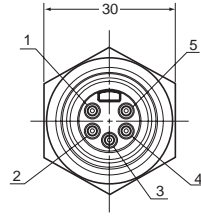
Wiring

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

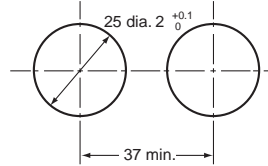
Note: Terminating resistance (121 Ω) is connected between terminals 4 and 5.



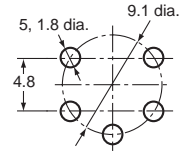
**Panel-mounting Connector (5 Pins for Communications)
XS4M-D521-1**



Panel Cutout Dimensions



PCB Processing Dimensions

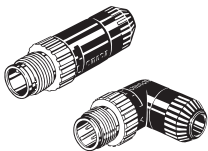


Note: A rubber seal and nut for panel mounting are included.

I/O Peripheral Devices


Applicable Connectors

● Assembly Connector Plugs for M12 Microconnectors

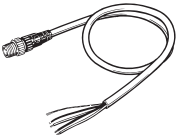
Appearance	Applicable cable diameter (mm)	Cable direction	Number of poles	Connection method		
				Crimping	Soldering	Screws
	For 6 dia. (5 to 6 dia.)	Straight	4	XS2G-D4C1	XS2G-D421	XS2G-D4S1
		L-shaped		--	XS2G-D422	XS2G-D4S2
	For 5 dia. (4 to 5 dia.)	Straight		XS2G-D4C3	XS2G-D423	XS2G-D4S3
		L-shaped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

Applicable Cables with Connectors

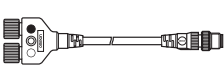
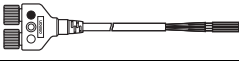

● Cables with Connector (Socket/Plug) on Both Ends (M12 Microconnectors for Power Supply and I/O)

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	
			2	XS2W-D423-D81-A	
	Straight/L-shaped		5	XS2W-D423-G81-A	
			2	XS2W-D424-D81-A	
	L-shaped/Straight		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)).


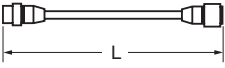

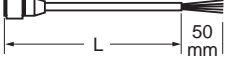

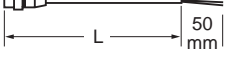
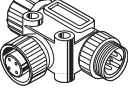


● Connector Cover for M12 Microconnectors

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 Cable: 50 cm	--	XS4P-D421-1C5-A
	Panel mounting connector plug DIP terminals	--	XS4M-D421-1
-	Waterproofing Cap for Plug	--	XS4Z-11
-	Waterproofing Cap for Socket	--	XS4Z-12

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