

DeviceNet Mini-style Connectors

CM03A Series (Overmolded Cable Assembly)

Fujikura
**Conforming
Standard**
DeviceNet
Waterproof
IP 67
Lock Type
**Threaded
Coupling**

◆ OUTLINE

CM03A series is a overmolded cable assembly which is in accordance with DeviceNet Mini-Style, an official standard of ODVA (Open DeviceNet Vendor Association, Inc.). The connectors are provided with a premating contact which is a first make-last break contact to protect the circuit.

When mated, the premating contact is connected first before the other contacts and is detached last when dismated. CM03A series will be supplied by the style of the cable assemblies in order for you to eliminate the termination job. The cable assemblies for power are also available from our product line.

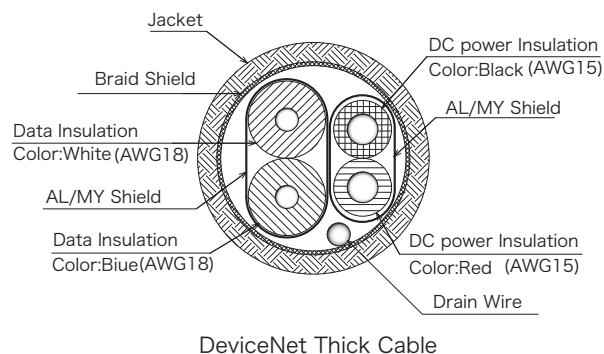


◆ FEATURES

- Intermateable with CM03 series.
- Rated for IP67 for environments.
- Solder termination style.

◆ SPECIFICATIONS

Rated Current	13A/Contact
Rated Voltage	600V AC(r.m.s.)
Dielectric Withstanding Voltage	1600V AC(r.m.s.) for 1 minute
Insulation Resistance	100M Ω Min. at 500V DC
Operating Temperature Range	-40°C to +70°C
Waterproof	IP67 when mated
Pin Contact Size	ϕ 2.0 mm
No. of Contacts	4 and 5



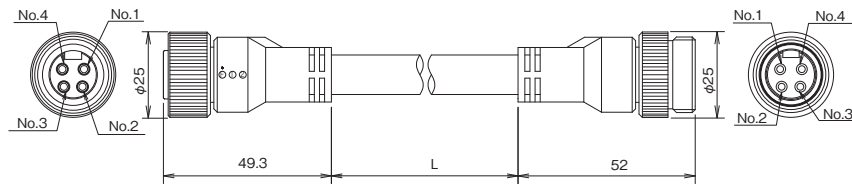
◆ MATERIAL/FINISH

**RoHS
Compliant**

Item	Plug	Jack
Contact	Copper Alloy/Gold Plating	Copper Alloy/Gold Plating
Insulator	Synthetic Resin(UL94V-0)/Gray	Synthetic Resin(UL94V-0)/Gray
Coupling Ring	Zinc Alloy/Nickel Plating	Zinc Alloy/Nickel Plating
O Ring	Synthetic Rubber/Black	
Overmolding Resin	Plastic(UL94V-0)/Black	Plastic(UL94V-0)/Black

▶ Double-Ended Cable Assemblies (4 Contacts)

- A plug connector with socket contacts and a jack connector with pin contacts



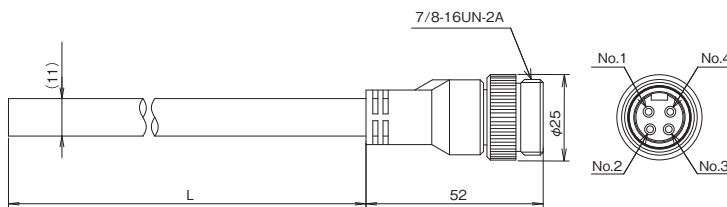
L	P / N
1,000	CM03AA-P4S-010(R1)
2,000	CM03AA-P4S-020(R1)
3,000	CM03AA-P4S-030(R1)
5,000	CM03AA-P4S-050(R1)
10,000	CM03AA-P4S-100(R1)

Wiring

Number of Contacts	Cable Color	Signal
1	Black	V -
2	White	V +
3	Red	V +
4	Green	V -

▶ Jack Single-Ended Cable Assemblies (4 Contacts)

- Jack connector with pin contacts



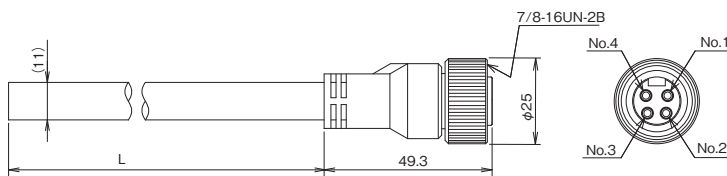
L	P / N
1,000	CM03A-J4P-010(R1)
2,000	CM03A-J4P-020(R1)
3,000	CM03A-J4P-030(R1)
5,000	CM03A-J4P-050(R1)
10,000	CM03A-J4P-100(R1)

Wiring

Number of Contacts	Cable Color	Signal
1	Black	V -
2	White	V +
3	Red	V +
4	Green	V -

▶ Plug Single-Ended Cable Assemblies (4 Contacts)

- Plug connector with socket contacts



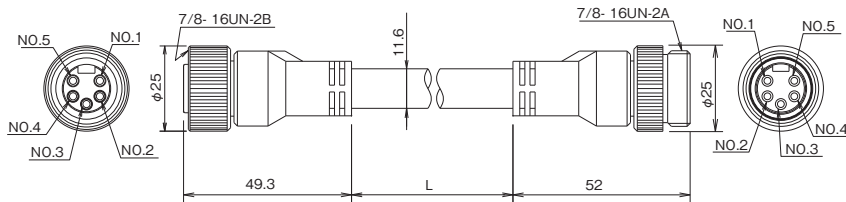
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Wiring

Number of Contacts	Cable Color	Signal
1	Black	V -
2	White	V +
3	Red	V +
4	Green	V -

► Double-Ended Cable Assemblies (5 Contacts)

- Plug with socket contacts and jack with pin contacts



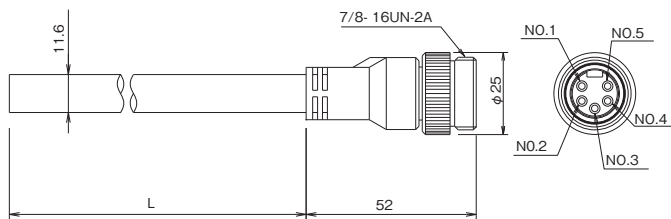
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3,000	CM03AA-P5S-030(R1)
5,000	CM03AA-P5S-050(R1)
10,000	CM03AA-P5S-100(R1)

Wiring

Number of Contacts	Cable Color	Signal
1	—	DRAIN
2	Red	V +
3	Black	V -
4	White	CAN H
5	Blue	CAN L

► Jack Single-Ended Cable Assemblies (5 Contacts)

- Jack connector with pin contacts



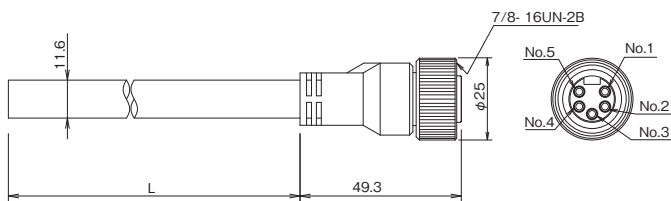
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Wiring

Number of Contacts	Cable Color	Signal
1	—	DRAIN
2	Red	V +
3	Black	V -
4	White	CAN H
5	Blue	CAN L

► Plug Single-Ended Cable Assemblies (5 Contacts)

- Plug connector with socket contacts

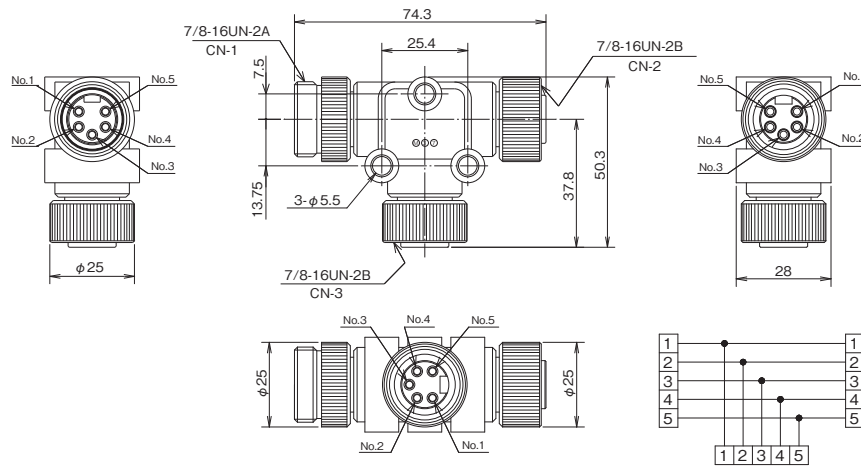


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Wiring

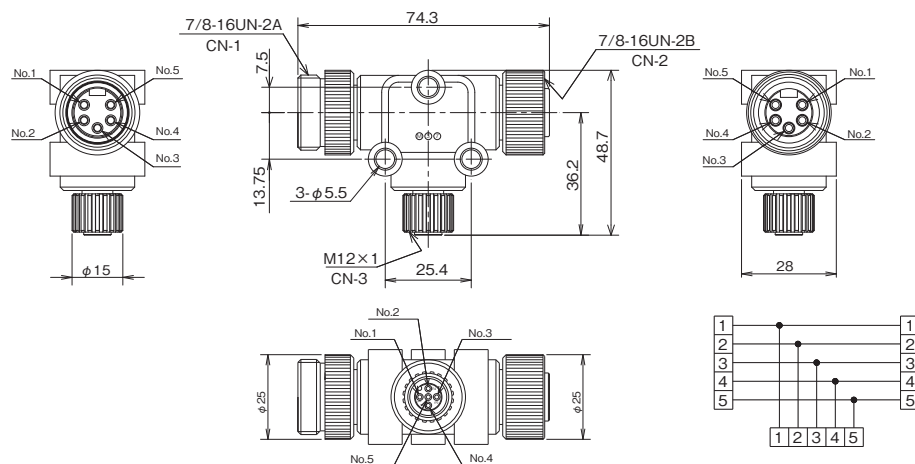
Number of Contacts	Cable Color	Signal
1	—	DRAIN
2	Red	V +
3	Black	V -
4	White	CAN H
5	Blue	CAN L

▶ T Divergence Adapter (For Trunk Line)



P/N	Connector Name		
	CN-1	CN-2	CN-3
CM03A-TA5-1(R1)	CM03-P5S(R1)	CM03-J5P(R1)	
	CM03-PR5S- □ (R1)	CM03-R5P- □ (R1)	
	CM03A-PR5S-S- □ (R1)	CM03A-J5P- □ (R1)	
	CM03A-P5S- □ (R1)	CM03A-R5P-S- □ (R1)	

▶ T Divergence Adapter (For Branch Line)

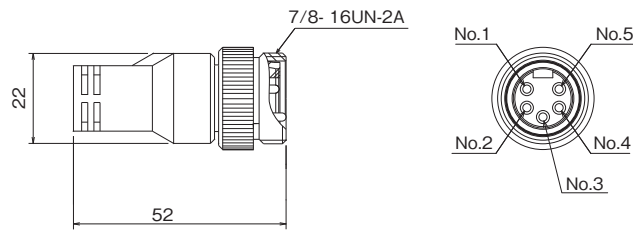


P/N	Connector Name		
	CN-1	CN-2	CN-3
CM03A-TA5-2(R1)	CM03-P5S(R1)	CM03-J5P(R1)	CM02-8DR5P- □ (R1)
	CM03-PR5S- □ (R1)	CM03-R5P- □ (R1)	CM02-8DR5PD (D1) (R1)
	CM03A-PR5S-S- □ (R1)	CM03A-J5P- □ (R1)	CM02A-8DJ5P- □ (R1)
	CM03A-P5S- □ (R1)	CM03A-R5P-S- □ (R1)	CM02B-8DJ5P- □ (R1)

▶ Terminating Resistor With Jack (Pin)

- Terminated between No.4 and No.5 with resistor, 121 ohm, 1/4watt.

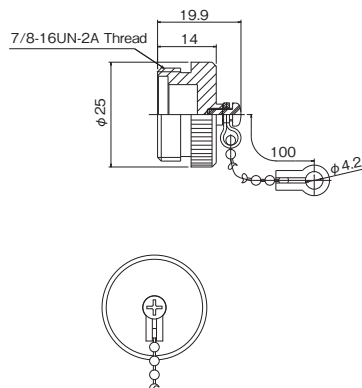
P/N : CM03A-ER5P(R1)



▶ Cap

Plug Cap

P/N : CM03-PRC



Receptacle Cap

P/N : CM03-RC

