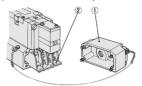
Lead Wire Connection

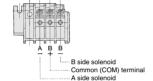
Plug-in type (With terminal block)

VFR2000/3000/4000 Series

• If you remove the junction cover (1) on the sub-plate, you will see the plug-in terminal block 2 attached to the inside of sub-plate.



. The following markings are on the terminal block. Connect with corresponding power side.



- . Although "A-". "B+" and "B-" marks are indicated on the terminal block, this can be used as either "+COM" or "-COM".
- · Applicable terminal:

VFR2000, VFR3000: 1.25-3, 1.25-3S, 1.25Y-3N, 1.25Y-3S VFR4000: 1.25-3.5M, 1.25Y-3L, 1.25Y-3M

VFR5000 Series

· Remove junction cover for sub-plate ①, depress levers 3 of terminal block assembly 2, pull out terminal block assembly.





· Terminal block assembly is marked as below. Connect it to power supply side.

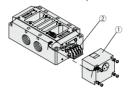


Terminal block Model marking	A- (1)	B+ (3)	B- (4)
VFR510□	A side	сом	
VFR520□	A side	сом	B side
VFR540□ 5	A side	сом	B side

- . Terminal block assembly can be used as "+" and "-" common regardless of markings. Do not remove jumper bar because it is used for common connection.
- · Applicable terminal: 1.25-4. 1.25-4M

VFR6000 Series

. If you remove the junction cover (1) on the sub-plate, you will see the plug-in terminal block (2) attached to the inside of sub-plate.



. Terminal block assembly is wired like the following figure. Connect it to each power supply side.



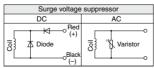
Position	Left	Center	Right
VFR610□	A side	СОМ	
VFR620□	A side	СОМ	B side
VFR640□	A side	сом	B side

- Can be used as either "+COM" or "-COM".
- · Applicable terminal: 1.25-4, 1.25-4M

Non plug-in type VFR2000 Series VFR3000/4000 Series (VFR3□40/4□40)

•Type G: Lead wire comes directly from the solenoid part. Connect it with the power source.

Grommet with DC voltage surge voltage suppressor has polarity. Connect red lead wire to + (positive) side and black to - (negative) side.



. Type E. T. D. Y: In the case of DIN terminal block and terminal block, there is no polarity of positive [+] and negative [-]. Connect no. 1 and no. 2 terminals with corresponding power side.

DII	N terminal block
Ground-	1 2

With



- Applicable cable O.D.
- Type T: ø6 to ø8 mm
- Type E: ø2.3 to ø2.8 mm
- Type D (VFR2000 series); ø6 to ø8 mm Type D (VFR3000/4000 series); ø4.5 to ø7 mm
- Type Y: ø4.5 to ø7 mm
- · Applicable crimp terminal

Type E. T: 1.25-3, 1.25-3S, 1.25Y-3N, 1.25Y-3S (Round shape or Y shape crimp terminal cannot be used for Type D.)

VFR3000/4000/5000/6000 Series (VFR3□10/4□10)

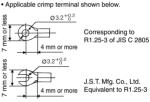
DIN terminal block type

· Male pin terminal of DIN terminal block of solenoid valves are wired as shown below. Connect to corresponding terminal on the connector.



Terminal no.	Internal wiring
1	SOL. A side
2	SOL. B side
3	COM
+	Ground

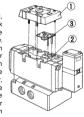
- Can be used as either "+COM" or "-COM".
- · Applicable cable
- Cross section of the wire: 0.5 to 1.5 mm²
- Cable O.D.: ø8 to ø10

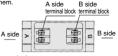


- · Proper tightening torque of the connector Connector set screw 0.5 to 0.6 N·m Terminal screw 0.5 to 0.6 N·m
- · Incorrect connection of "COM terminal" (DIN terminal no. 3) can cause damage on power source circuit.

Terminal block type

• Remove cover ①, over terminal block 2 attached to the inside of body. Connect with corresponding power side. For a type with light and surge voltage suppressor. straightly pull out the light and surge voltage suppressor substrate (3) and then connect them.





· Applicable terminal: VFR3000: 1.25-3, 1.25-3S, 1.25Y-3N, 1.25Y-3S VFR4000: 1.25-3.5M, 1.25Y-3L, 1.25Y-3M VFR5000/6000: 1.25-3.5M, 1.25-3L, 1.25-3M