

Solenoid Valve Connectors



DIN A to Micro-DC Male Receptacle ❖ DIN 43650 ❖ Form A to M12 (MDC)

# of Poles	Voltage	Circuitry See Page 216	Housing Color	M12 (MDC) # of Poles	
				4	5
2 + Ground	250V AC/DC (maximum)	None	Gray	VFN-029-3401	VFN-029-3501
			Black	VAN-029-3401	VAN-029-3501
2 + Ground	10-50V DC	LED w/ Flyback Diode	Clear	VAC-029-3401	VAC-029-3501
2 + Ground	24V AC/DC	LED w/ MOV	Clear	VAG-029-3401	VAG-029-3501
2 + Ground	120V AC/DC	LED w/ MOV	Clear	VAJ-029-3401	VAJ-029-3501
2 + Ground	120V AC/DC	Bridge Rectifier w/ LED & MOV	Clear	VAR-029-3401	VAR-029-3501

The ground position is not connected on the 4 Pole Version.

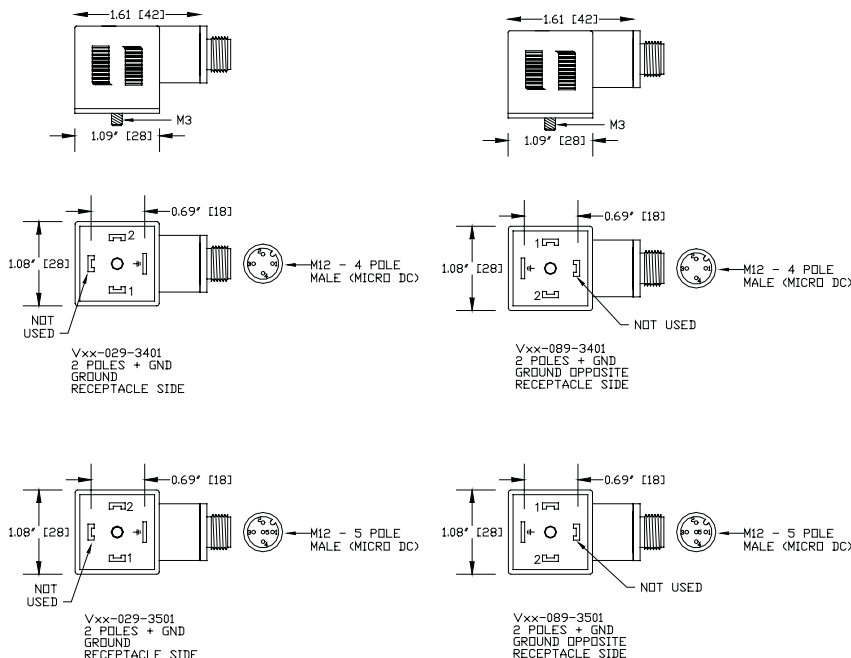
DIN Connector Specifications:

Body: Polyamide
 Contacts: Copper Alloy with Silver Plating
 Gasket: Thermoplastic
 Screw: Steel Zinc Plate
 Temperature: -40°C to 80°C (-40°F to +176°F)
 Protection: IP 65

MDC Connector Specifications:

Body: Nickel Plated Brass
 Insulator: Polyamide
 Contacts: Copper Alloy with Gold Plating
 O-Ring: BUNA-N
 Temperature: -40°C to 80°C (-40°F to +176°F)
 Protection: IP 65

DIN 43650 Form A	M12 (MDC) 4 Pole	M12 (MDC) 5 Pole
Pin #	Pin #	Pin #
1	4	4
2	3	3
Ground		5
3 Not Used	1, 2 & 5 Not Used	1 & 2 Not Used





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DIN A to Micro-DC 4 Pole Male Plug ❖ DIN 43650 ❖ Form A to MDC (M12)

# of Poles	Voltage	Circuitry	M12 (MDC) 4 Pole Cable Straight Male			M12 (MDC) 4 Pole Cable Right Angle Male		
			2 M	5 M	10 M	2 M	5 M	10 M
2 + Ground	250V AC/DC (max.)	None	VAN-220-3401	VAN-520-3401	VAN-A20-3401	VAN-220-3402	VAN-520-3402	VAN-A20-3402
2 + Ground	24V AC/DC	LED w/ MOV	VAG-220-3401	VAG-520-3401	VAG-A20-3401	VAG-220-3402	VAG-520-3402	VAG-A20-3402
2 + Ground	120V AC/DC	LED w/ MOV	VAJ-220-3401	VAJ-520-3401	VAJ-A20-3401	VAJ-220-3402	VAJ-520-3402	VAJ-A20-3402

Other circuit options are available, please consult the factory.
MDC Right Angle Versions are non-stock items.

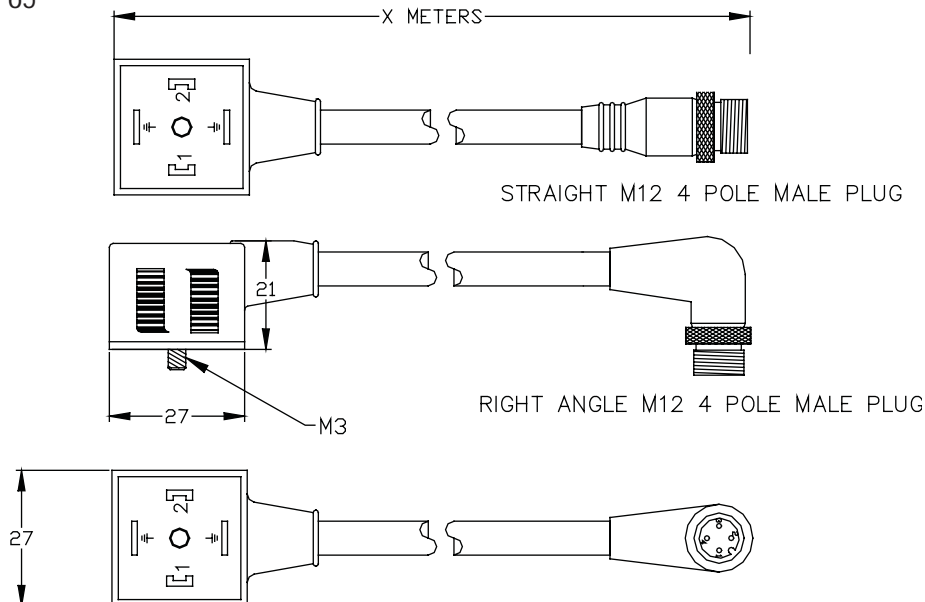
DIN Connector Specifications:

Body: Polyamide
 Contacts: Copper Alloy with Silver Plating
 Gasket: Thermoplastic
 Screw: Steel Zinc Plate
 Temperature: -40°C to 80°C (-40°F to +176°F)
 Protection: IP 65

DIN 43650 Form A	M12 (MDC) 4 Pole
Pin #	Pin #
1	4
2	3
Ground Not Used	1, 2 & 5 Not Used

MDC Connector Specifications:

Body: Nickel Plated Brass
 Insulator: Polyamide
 Contacts: Copper Alloy with Gold Plating
 O-Ring: BUNA-N
 Temperature: -40°C to 80°C (-40°F to +176°F)
 Protection: IP 65



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DIN A to Micro-DC 5 Pole Male Plug ❖ DIN 43650 ❖ Form A to MDC (M12)

# of Poles	Voltage	Circuitry	M12 (MDC) 5 Pole Cable Straight Male			M12 (MDC) 5 Pole Cable Right Angle Male		
			2 M	5 M	10 M	2 M	5 M	10 M
2 + Ground	250V AC/DC (max.)	None	VAN-220-3501	VAN-520-3501	VAN-A20-3501	VAN-220-3502	VAN-520-3502	VAN-A20-3502
2 + Ground	24V AC/DC	LED w/ MOV	VAG-220-3501	VAG-520-3501	VAG-A20-3501	VAG-220-3502	VAG-520-3502	VAG-A20-3502
2 + Ground	120V AC/DC	LED w/ MOV	VAJ-220-3501	VAJ-520-3501	VAJ-A20-3501	VAJ-220-3502	VAJ-520-3502	VAJ-A20-3502

Other circuit options are available, please consult the factory.
MDC Right Angle Versions are non-stock items.

DIN Connector Specifications:

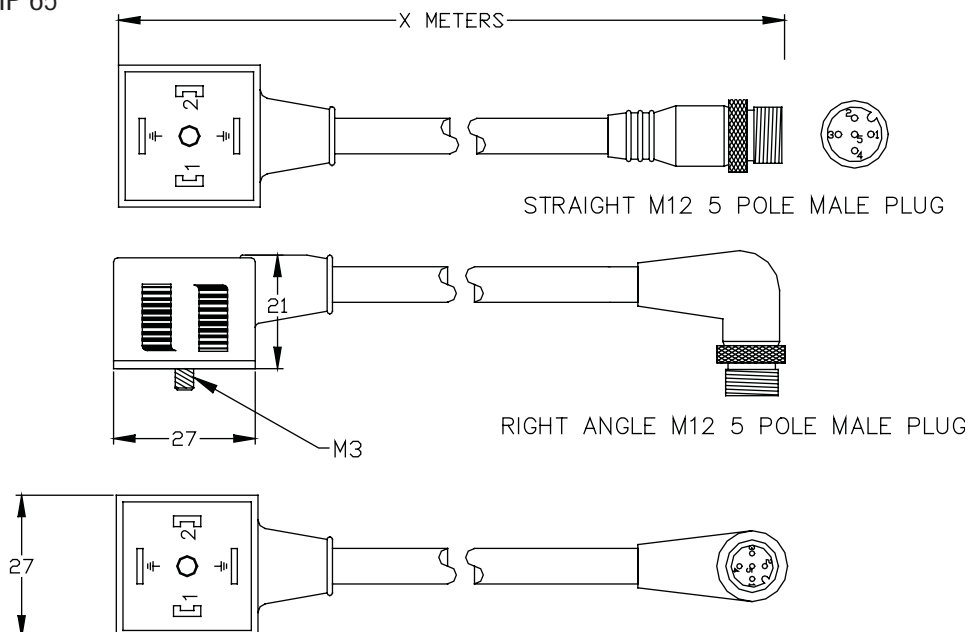
Body: Polyamide
 Contacts: Copper Alloy with Silver Plating
 Gasket: Thermoplastic
 Screw: Steel Zinc Plate
 Temperature: -40°C to 80°C (-40°F to +176°F)
 Protection: IP 65

MDC Connector Specifications:

Body: Nickel Plated Brass
 Insulator: Polyamide
 Contacts: Copper Alloy with Gold Plating
 O-Ring: BUNA-N
 Temperature: -40°C to 80°C (-40°F to +176°F)
 Protection: IP 65

DIN 43650 Form A	M12 (MDC) 5 Pole
Pin #	Pin #
1	4
2	3
Ground	5
	1 & 2 Not Used

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Industry Standard Form B to Micro-DC Male Receptacle

# of Poles	Voltage	Circuitry	Housing Color	M12 (MDC) # of Poles	
				4	5
2 + Ground	250V AC/DC (maximum)	None	Gray	VJN-029-3401	VJN-029-3501
			Black	VDN-029-3401	VDN-029-3501
2 + Ground	10-50V DC	LED w/ Flyback Diode	Clear	VDC-029-3401	VDC-029-3501
2 + Ground	24V AC/DC	LED w/ MOV	Clear	VDG-029-3401	VDG-029-3501
2 + Ground	120V AC/DC	LED w/ MOV	Clear	VDJ-029-3401	VDJ-029-3501

Other circuit options are available, please consult the factory.

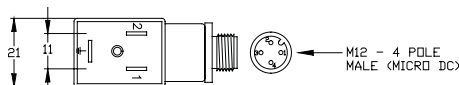
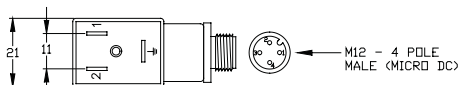
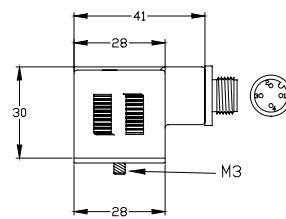
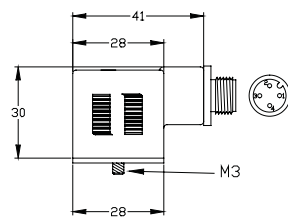
DIN Connector Specifications:

Body: Polyamide
 Contacts: Copper Alloy with Silver Plating
 Gasket: Thermoplastic
 Screw: Steel Zinc Plate
 Temperature: -40°C to 80°C (-40°F to +176°F)
 Protection: IP 65

MDC Connector Specifications:

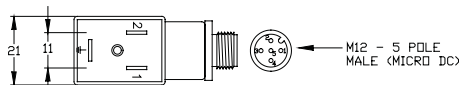
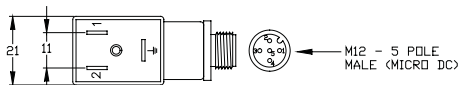
Body: Nickel Plated Brass
 Insulator: Polyamide
 Contacts: Copper Alloy with Gold Plating
 O-Ring: BUNA-N
 Temperature: -40°C to 80°C (-40°F to +176°F)
 Protection: IP 65

DIN 43650 I. S. B.	M12 (MDC) 4 Pole	M12 (MDC) 5 Pole
Pin #	Pin #	Pin #
1	4	4
2	3	3
Ground	Not Used	5
	1, 2 & 5 Not Used	1 & 2 Not Used



Vxx-029-3401
GROUND TOWARD RECEPTACLE SIDE

Vxx-089-3401
GROUND OPPOSITE RECEPTACLE SIDE



Vxx-029-3501
GROUND TOWARD RECEPTACLE SIDE

Vxx-089-3501
GROUND OPPOSITE RECEPTACLE SIDE

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Industry Standard Form B to Micro-DC Male Plug

# of Poles	Voltage	Circuitry	M12 (MDC) 4 Pole Cable Straight Male			M12 (MDC) 4 Pole Cable Right Angle Male		
			2 M	5 M	10 M	2 M	5 M	10 M
2 + Ground	250V AC/DC (max.)	None	VDN-220-3401	VDN-520-3401	VDN-A20-3401	VDN-220-3402	VDN-520-3402	VDN-A20-3402
2 + Ground	24V AC/DC	LED w/ MOV	VDG-220-3401	VDG-520-3401	VDG-A20-3401	VDG-220-3402	VDG-520-3402	VDG-A20-3402
2 + Ground	120V AC/DC	LED w/ MOV	VDJ-220-3401	VDJ-520-3401	VDJ-A20-3401	VDJ-220-3402	VDJ-520-3402	VDJ-A20-3402

# of Poles	Voltage	Circuitry	M12 (MDC) 5 Pole Cable Straight Male			M12 (MDC) 5 Pole Cable Right Angle Male		
			2 M	5 M	10 M	2 M	5 M	10 M
2 + Ground	250V AC/DC (max.)	None	VDN-220-3501	VDN-520-3501	VDN-A20-3501	VDN-220-3502	VDN-520-3502	VDN-A20-3502
2 + Ground	24V AC/DC	LED w/ MOV	VDG-220-3501	VDG-520-3501	VDG-A20-3501	VDG-220-3502	VDG-520-3502	VDG-A20-3502
2 + Ground	120V AC/DC	LED w/ MOV	VDJ-220-3501	VDJ-520-3501	VDJ-A20-3501	VDJ-220-3502	VDJ-520-3502	VDJ-A20-3502

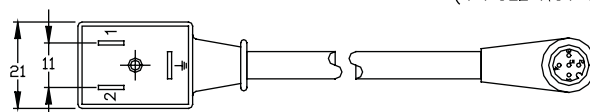
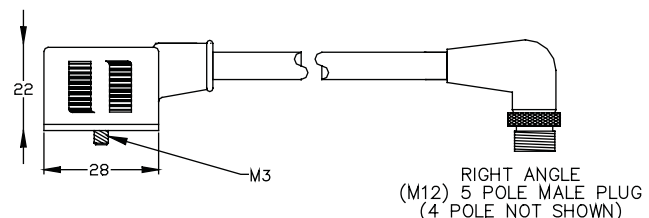
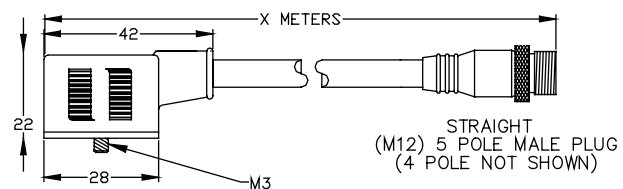
DIN Connector Specifications:

Body: Polyamide
 Contacts: Copper Alloy with Silver Plating
 Gasket: Thermoplastic
 Screw: Steel Zinc Plate
 Temperature: -40°C to 80°C (-40°F to +176°F)
 Protection: IP 65

DIN 43650 I. S. B.	M12 (MDC) 4 Pole	M12 (MDC) 5 Pole
Pin #	Pin #	Pin #
1	4	4
2	3	3
Ground	Not Used	5
	1, 2 & 5 Not Used	1 & 2 Not Used

MDC Connector Specifications:

Body: Nickel Plated Brass
 Insulator: Polyamide
 Contacts: Copper Alloy with Gold Plating
 O-Ring: BUNA-N
 Temperature: -40°C to 80°C (-40°F to +176°F)
 Protection: IP 65





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DIN 43650 Form C to Micro-DC Male Plug ❖ DIN 43650 ❖ Form C to MDC

# of Poles	Voltage	Circuitry	M12 (MDC) 4 Pole Cable Straight Male			M12 (MDC) 4 Pole Cable Right Angle Male		
			2 M	5 M	10 M	2 M	5 M	10 M
2 + Ground	250V AC/DC (max.)	None	VCN-220-3401	VCN-520-3401	VCN-A20-3401	VCN-220-3402	VCN-520-3402	VCN-A20-3402
2 + Ground	24V AC/DC	LED w/ MOV	VCG-220-3401	VCG-520-3401	VCG-A20-3401	VCG-220-3402	VCG-520-3402	VCG-A20-3402
2 + Ground	120V AC/DC	LED w/ MOV	VCJ-220-3401	VCJ-520-3401	VCJ-A20-3401	VCJ-220-3402	VCJ-520-3402	VCJ-A20-3402

# of Poles	Voltage	Circuitry	M12 (MDC) 5 Pole Cable Straight Male			M12 (MDC) 5 Pole Cable Right Angle Male		
			2 M	5 M	10 M	2 M	5 M	10 M
2 + Ground	250V AC/DC (max.)	None	VCN-220-3501	VCN-520-3501	VCN-A20-3501	VCN-220-3502	VCN-520-3502	VCN-A20-3502
2 + Ground	24V AC/DC	LED w/ MOV	VCG-220-3501	VCG-520-3501	VCG-A20-3501	VCG-220-3502	VCG-520-3502	VCG-A20-3502
2 + Ground	120V AC/DC	LED w/ MOV	VCJ-220-3501	VCJ-520-3501	VCJ-A20-3501	VCJ-220-3502	VCJ-520-3502	VCJ-A20-3502

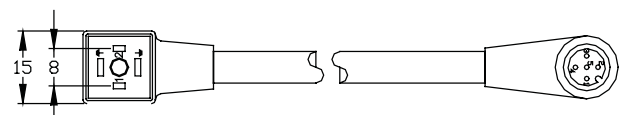
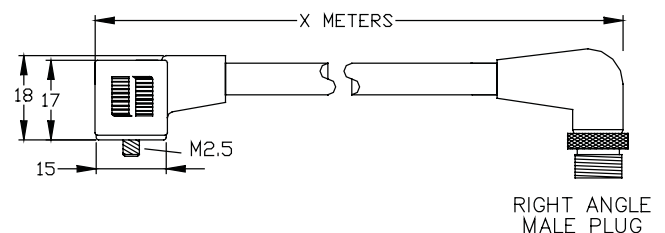
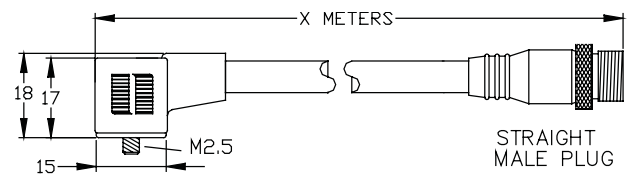
DIN Connector Specifications:

Body: Polyamide
 Contacts: Copper Alloy with Silver Plating
 Gasket: Thermoplastic
 Screw: Steel Zinc Plate
 Temperature: -40°C to 80°C (-40°F to +176°F)
 Protection: IP 65

MDC Connector Specifications:

Body: Nickel Plated Brass
 Insulator: Polyamide
 Contacts: Copper Alloy with Gold Plating
 O-Ring: BUNA-N
 Temperature: -40°C to 80°C (-40°F to +176°F)
 Protection: IP 65

DIN 43650 Form C	M12 (MDC) 4 Pole	M12 (MDC) 5 Pole
Pin #	Pin #	Pin #
1	4	4
2	3	3
Ground	Not Used	5
	1, 2 & 5 Not Used	1 & 2 Not Used



Valve Connectors

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Industry Standard Form C to Micro-DC Male Plug

# of Poles	Voltage	Circuitry	M12 (MDC) 4 Pole Cable Straight Male			M12 (MDC) 4 Pole Cable Right Angle Male		
			2 M	5 M	10 M	2 M	5 M	10 M
2 + Ground	250V AC/DC (max.)	None	VEN-220-3401	VEN-520-3401	VEN-A20-3401	VEN-220-3402	VEN-520-3402	VEN-A20-3402
2 + Ground	24V AC/DC	LED w/ MOV	VEG-220-3401	VEG-520-3401	VEG-A20-3401	VEG-220-3402	VEG-520-3402	VEG-A20-3402
2 + Ground	120V AC/DC	LED w/ MOV	VEJ-220-3401	VEJ-520-3401	VEJ-A20-3401	VEJ-220-3402	VEJ-520-3402	VEJ-A20-3402

# of Poles	Voltage	Circuitry	M12 (MDC) 5 Pole Cable Straight Male			M12 (MDC) 5 Pole Cable Right Angle Male		
			2 M	5 M	10 M	2 M	5 M	10 M
2 + Ground	250V AC/DC (max.)	None	VEN-220-3501	VEN-520-3501	VEN-A20-3501	VEN-220-3502	VEN-520-3502	VEN-A20-3502
2 + Ground	24V AC/DC	LED w/ MOV	VEG-220-3501	VEG-520-3501	VEG-A20-3501	VEG-220-3502	VEG-520-3502	VEG-A20-3502
2 + Ground	120V AC/DC	LED w/ MOV	VEJ-220-3501	VEJ-520-3501	VEJ-A20-3501	VEJ-220-3502	VEJ-520-3502	VEJ-A20-3502

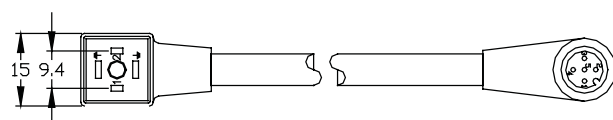
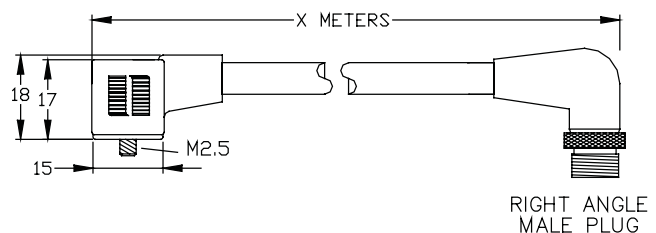
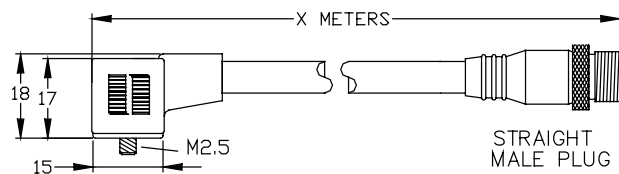
DIN Connector Specifications:

Body: Polyamide
 Contacts: Copper Alloy with Silver Plating
 Gasket: Thermoplastic
 Screw: Steel Zinc Plate
 Temperature: -40°C to 80°C (-40°F to +176°F)
 Protection: IP 65

MDC Connector Specifications:

Body: Oil Resistant Yellow PVC
 Insulator: Polyamide
 Contacts: Copper Alloy with Gold Plating
 Coupling Nut: Nickel Plated Brass
 Temperature: -40°C to 80°C (-40°F to +176°F)
 Protection: IP 65

I.S.C	M12 (MDC) 4 Pole	M12 (MDC) 5 Pole
Pin #	Pin #	Pin #
1	4	4
2	3	3
Ground	Not Used	5
	1, 2 & 5 Not Used	1 & 2 Not Used



Valve Connectors