



## RENHOTEC GROUP LIMITED

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# M5 Series

- Compliance with IEC61076 standard.
- Protection degree: IP65 (Mated) , IP67 (Mated) .
- Pin configurations: 3, 4 positions.
- Rated current: 1A, Rated voltage: 60V.
- Cable length, material and colours can be customized.

## M5 SERIES



Part No. **M5005** **M5003** **M5007** **M5001**



Part No. **M5006** **M5004** **M5008** **M5002**



Part No. **RHT-634-1410** **RHT-634-1411** **M5005-XXX** **M5003-XXX**



Part No. **M5007-XXX** **M5001-XXX** **M5010** **M5009**



Part No. **M5012** **M5011**

## M5 Panel Mount Receptacle, Front Fastened, Solder Cup, Straight



### Specification

Number of positions	3	4
Insert arrangement (Female)		
Insert arrangement (Male)		
Rated current	1A	1A
Rated voltage	60V	60V
Wire gauge	26AWG/0.14mm <sup>2</sup>	26AWG/0.14mm <sup>2</sup>
Insulation resistance	≥100MΩ	
Contact resistance	≤5mΩ	
Temperature range	-25°C ~ +80°C	
Protection rating	IP67(Mated)	
Body material	Brass, Nickel Plated	
Insulation material	PA66+GF	
Contact termination	Solder Cup	
Contact material	Brass	
Contact finish	Gold	
Seal	NBR, Black	
Shielding	Unshielded	
Mating cycles	≥500	

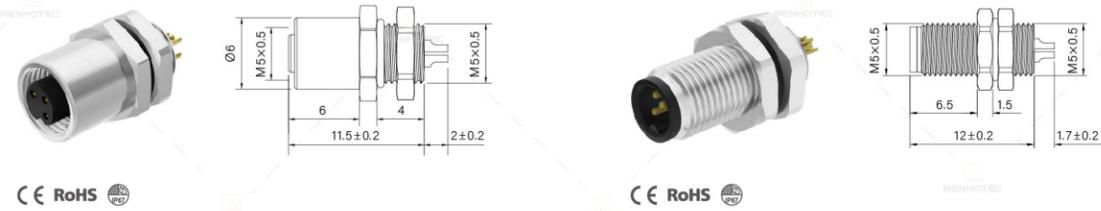
### Part Number

Number of positions	Female	Male
3	M5005-03	M5003-03
4	M5005-04	M5003-04

### Wiring Colours and Sequences

Pin	3-pin	4-pin
Pin 1	Brown	Brown
Pin 2	Blue	White
Pin 3	Black	Blue
Pin 4		Black

## M5 Panel Mount Receptacle, Rear Fastened, Solder Cup, Straight



CE RoHS

CE RoHS

### Specification

Number of positions	3	4
Insert arrangement (Female)		
Insert arrangement (Male)		
Rated current	1A	1A
Rated voltage	60V	60V
Wire gauge	26AWG/0.14mm <sup>2</sup>	26AWG/0.14mm <sup>2</sup>
Insulation resistance	≥100MΩ	
Contact resistance	≤5mΩ	
Temperature range	-25°C ~ +80°C	
Protection rating	IP67(Mated)	
Body material	Brass, Nickel Plated	
Insulation material	PA66+GF	
Contact termination	Solder Cup	
Contact material	Brass	
Contact finish	Gold	
Seal	NBR, Black	
Shielding	Unshielded	
Mating cycles	≥500	

### Part Number

Number of positions	Female	Male
3	M5007-03	M5001-03
4	M5007-04	M5001-04

### Wiring Colours and Sequences

Pin 1		Brown		Brown
Pin 2		Blue		White
Pin 3		Black		Blue
Pin 4		Black		Black

## M5 Panel Mount Receptacle, Front Fastened, PCB Type, Straight



CE RoHS

CE RoHS

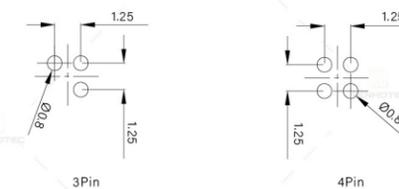
### Specification

Number of positions	3	4
Insert arrangement (Female)		
Insert arrangement (Male)		
Rated current	1A	1A
Rated voltage	60V	60V
Insulation resistance	≥100MΩ	
Contact resistance	≤5mΩ	
Temperature range	-25°C ~ +80°C	
Protection rating	IP67(Mated)	
Body material	Brass, Nickel Plated	
Insulation material	PA66+GF	
Contact termination	PCB Solder	
Contact material	Brass	
Contact finish	Gold	
Seal	NBR, Black	
Shielding	Unshielded	
Mating cycles	≥500	

### Part Number

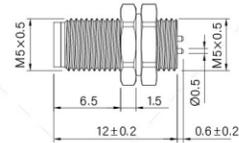
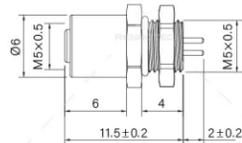
Number of positions	Female	Male
3	M5006-03	M5004-03
4	M5006-04	M5004-04

### PCB Layout



## M5 Panel Mount Receptacle, Rear Fastened, PCB Type, Straight

## M5 Panel Mount Receptacle, Front Fastened, SMT, Angled



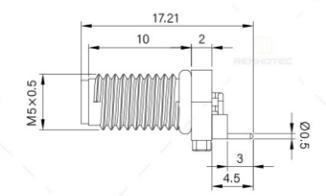
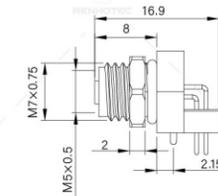
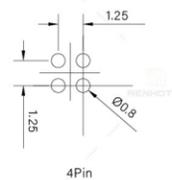
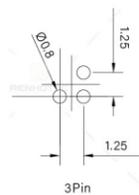
### Specification

Number of positions	3	4
Insert arrangement (Female)		
Insert arrangement (Male)		
Rated current	1A	1A
Rated voltage	60V	60V
Insulation resistance	≥100MΩ	
Contact resistance	≤5mΩ	
Temperature range	-25°C ~ +80°C	
Protection rating	IP67(Mated)	
Body material	Brass, Nickel Plated	
Insulation material	PA66+GF	
Contact termination	PCB Solder	
Contact material	Brass	
Contact finish	Gold	
Seal	NBR, Black	
Shielding	Unshielded	
Mating cycles	≥500	

### Part Number

Number of positions	Female	Male
3	M5008-03	M5002-03
4	M5008-04	M5002-04

### PCB Layout



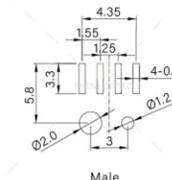
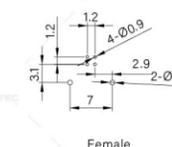
### Specification

Number of positions	3	4
Insert arrangement (Female)		
Insert arrangement (Male)		
Rated current	1A	1A
Rated voltage	60V	60V
Insulation resistance	≥100MΩ	
Contact resistance	≤5mΩ	
Temperature range	-25°C ~ +80°C	
Protection rating	IP67(Mated)	
Body material	Brass, Nickel Plated	
Contact termination	SMT	
Insulation material	PA66+GF	
Contact material	Brass	
Contact finish	Gold	
Seal	NBR, Black	
Shielding	Unshielded	
Mating cycles	≥500	

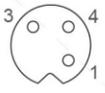
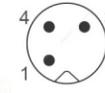
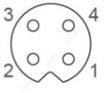
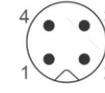
### Part Number

Number of positions	Female	Male
3	RHT-634-1410-03	RHT-634-1411-03
4	RHT-634-1410-04	RHT-634-1411-04

### PCB Layout



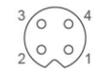
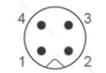
# M5 Wiring

Female Contact	Wiring Colours and Sequences		Male Contact
	Contacts	Wire Colours	
	1	BN	
	3	BU	
	Contacts	Wire Colours	
	1	BN	
	2	WH	

# M5 Panel Mount Receptacle with Wires, Front Fastened, Straight



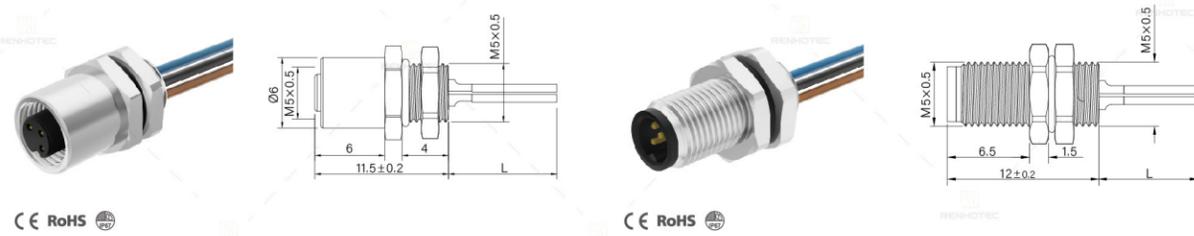
## Specification

	3	4
Number of positions	3	4
Insert arrangement (Female)		
Insert arrangement (Male)		
Rated current	1A	1A
Rated voltage	60V	60V
Wire gauge	26AWG/0.14mm <sup>2</sup>	26AWG/0.14mm <sup>2</sup>
Insulation resistance	≥100MΩ	
Contact resistance	≤5mΩ	
Temperature range	-25°C ~ +80°C	
Protection rating	IP67(Mated)	
Body material	Brass, Nickel Plated	
Insulation material	PA66+GF	
Contact termination	Solder Cup	
Contact material	Brass	
Contact finish	Gold	
Wire material	PVC	
Seal	NBR, Black	
Shielding	Unshielded	
Mating cycles	≥500	

## Part Number

Number of positions	Wire Length	Female	Male
3	0.3m	M5005-03-030	M5003-03-030
	Customized	M5005-03-XXX	M5003-03-XXX
4	0.3m	M5005-04-030	M5003-04-030
	Customized	M5005-04-XXX	M5003-04-XXX

## M5 Panel Mount Receptacle with Wires, Rear Fastened, Straight



### Specification

Number of positions	3	4
Insert arrangement (Female)		
Insert arrangement (Male)		
Rated current	1A	1A
Rated voltage	60V	60V
Wire gauge	26AWG/0.14mm <sup>2</sup>	26AWG/0.14mm <sup>2</sup>
Insulation resistance	≥100MΩ	
Contact resistance	≤5mΩ	
Temperature range	-25 C ~ +80 C	
Protection rating	IP67(Mated)	
Body material	Brass, Nickel Plated	
Insulation material	PA66+GF	
Contact termination	Solder Cup	
Contact material	Brass	
Contact finish	Gold	
Wire material	PVC	
Seal	NBR, Black	
Shielding	Unshielded	
Mating cycles	≥500	

### Part Number

Number of positions	Wire Length	Female	Male
3	0.3m	M5007-03-030	M5001-03-030
	Customized	M5007-03-XXX	M5001-03-XXX
4	0.3m	M5007-04-030	M5001-04-030
	Customized	M5007-04-XXX	M5001-04-XXX

## M5 Single-ended Cable, Straight



### Specification

Number of positions	3	4
Insert arrangement (Female)		
Insert arrangement (Male)		
Rated current	1A	1A
Rated voltage	60V	60V
Wire gauge	26AWG/0.14mm <sup>2</sup>	26AWG/0.14mm <sup>2</sup>
Insulation resistance	≥100MΩ	
Contact resistance	≤5mΩ	
Temperature range	-25 C ~ +80 C	
Protection rating	IP67(Mated)	
Over-molding material	PVC/TPU	
Screw nut material	Brass, Nickel Plated	
Insulation material	PA66+GF	
Contact termination	Solder Cup	
Contact material	Brass	
Contact finish	Gold	
Cable material	PVC/PUR/Customized	
Cable Colour	Black/Customized	
Seal	NBR, Black	
Shielding	Unshielded/Shielded	
Mating cycles	≥500	

### Part Number

Number of positions	Cable Length	Female		Male	
		PVC	PUR	PVC	PUR
3	1m	M5010-03-C-100	M5010-03-R-100	M5009-03-C-100	M5009-03-R-100
	Customized	M5010-03-C-XXX	M5010-03-R-XXX	M5009-03-C-XXX	M5009-03-R-XXX
4	1m	M5010-04-C-100	M5010-04-R-100	M5009-04-C-100	M5009-04-R-100
	Customized	M5010-04-C-XXX	M5010-04-R-XXX	M5009-04-C-XXX	M5009-04-R-XXX

# M5 Single-ended Cable, Angled



## Specification

Number of positions	3	4
Insert arrangement (Female)		
Insert arrangement (Male)		
Rated current	1A	1A
Rated voltage	60V	60V
Wire gauge	26AWG/0.14mm <sup>2</sup>	26AWG/0.14mm <sup>2</sup>
Insulation resistance	≥100MΩ	
Contact resistance	≤5mΩ	
Temperature range	-25°C ~ +80°C	
Protection rating	IP67 (Mated)	
Over-molding material	PVC/TPU	
Screw nut material	Brass, Nickel Plated	
Insulation material	PA66+GF	
Contact termination	Solder Cup	
Contact material	Brass	
Contact finish	Gold	
Cable material	PVC/PUR/Customized	
Cable Colours	Black/Customized	
Seal	NBR, Black	
Shielding	Unshielded/Shielded	
Mating cycles	≥500	

## Part Number

Number of positions	Cable Length	Female		Male	
		PVC	PUR	PVC	PUR
3	1m	M5012-03-C-100	M5012-03-R-100	M5011-03-C-100	M5011-03-R-100
	Customized	M5012-03-C-XXX	M5012-03-R-XXX	M5011-03-C-XXX	M5011-03-R-XXX
4	1m	M5012-04-C-100	M5012-04-R-100	M5011-04-C-100	M5011-04-R-100
	Customized	M5012-04-C-XXX	M5012-04-R-XXX	M5011-04-C-XXX	M5011-04-R-XXX