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 **RENHOTEC**



M23 Series

- Compliance with IEC61076 standard.
- Protection degree: IP65 (Mated) , IP67 (Mated) .
- 360° EMC shielded version available.
- Pin configurations: 6, 7, 8, 9, 12, 16, 17, 19 positions.
- Cable length, material and Colours can be customized.

■ M23 SERIES



Part No. **623A-F** **623A-M** **623Y-F** **623Y-M**



Part No. **623B-F** **623B-M** **623H-F** **623H-M**



Part No. **M623A-F-E/P** **M623A-M-E/P** **M623K-F-E/P** **M623K-M-E/P**



Part No. **M623B-F-E/P** **M623B-M-E/P** **M623D-F-E/P** **M623D-M-E/P**



Part No. **M623D1-F-E/P** **M623D1-M-E/P** **M623H-F-E/P** **M623H-M-E/P**

■ M23 SERIES

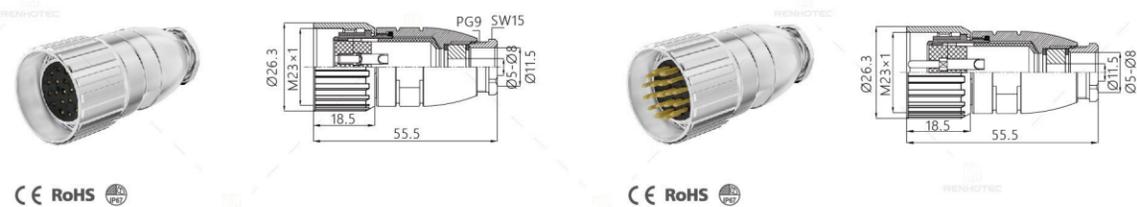


Part No. **RHT-605-10269** **RHT-605-10268** **M923A** **M923K**



Part No. **M923D** **M923D1**

M23 Field Assembly Connector, Solder Cup, Straight



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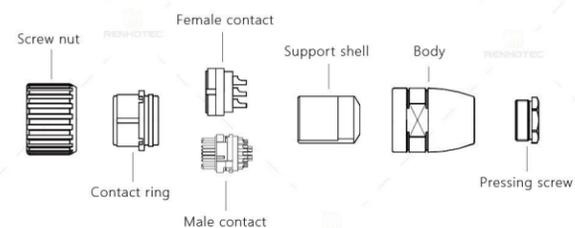
Specification

Number of positions	6	9	12	16	19
Insert arrangement (Female)					
Insert arrangement (Male)					
Rated current	20A	8A/20A	8A	8A	8A/20A
Rated voltage	200V	260V/300V	200V	125V	125V/200V
Wire gauge	14AWG/2.5mm ²	16AWG/1.5mm ² / 14AWG/2.5mm ²	18AWG/1.0mm ²	18AWG/1.0mm ²	16AWG/1.5mm ² /18AWG/1.0mm ²
Insulation resistance	≥100MΩ				
Contact resistance	≤3mΩ				
Temperature range	-40 C ~ +120 C				
Protection rating	IP67 (Mated)				
Body material	Zinc Alloy, Nickel Plated				
Screw nut material	Zinc Alloy, Nickel Plated				
Insulation material	PA66+GF				
Contact termination	Solder Cup				
Contact material	Brass, Gold Plated				
Seal	NBR, Black				
Shielding	Shielded				
Mating cycles	≥500				

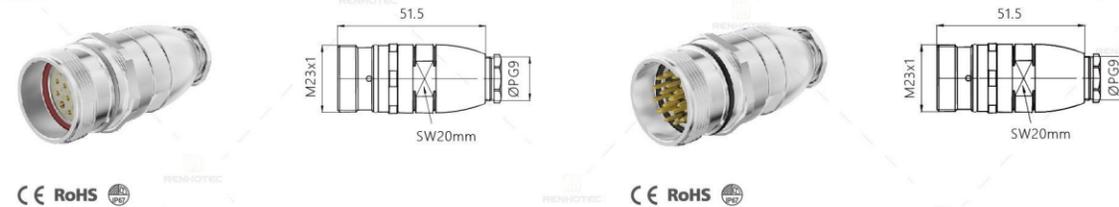
Part Number

Number of positions	Female	Male
6	623A-06-F	623A-06-M
9	623A-09-F	623A-09-M
12	623A-12-F	623A-12-M
16	623A-16-F	623A-16-M
19	623A-19-F	623A-19-M

Component Part



M23 Field Assembly Connector, Solder Cup, Straight



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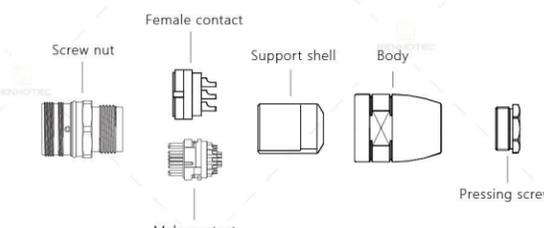
Specification

Number of positions	6	9	12	16	19
Insert arrangement (Female)					
Insert arrangement (Male)					
Rated current	20A	8A/20A	8A	8A	8A/20A
Rated voltage	200V	260V/300V	200V	125V	125V/200V
Wire gauge	14AWG/2.5mm ²	16AWG/1.5mm ² / 14AWG/2.5mm ²	18AWG/1.0mm ²	18AWG/1.0mm ²	16AWG/1.5mm ² /18AWG/1.0mm ²
Insulation resistance	≥100MΩ				
Contact resistance	≤3mΩ				
Temperature range	-40 C ~ +120 C				
Protection rating	IP67 (Mated)				
Body material	Zinc Alloy, Nickel Plated				
Screw nut material	Zinc Alloy, Nickel Plated				
Insulation material	PA66+GF				
Contact termination	Solder Cup				
Contact material	Brass, Gold Plated				
Seal	NBR, Black				
Shielding	Shielded				
Mating cycles	≥500				

Part Number

Number of positions	Female	Male
6	623Y-06-F	623Y-06-M
9	623Y-09-F	623Y-09-M
12	623Y-12-F	623Y-12-M
16	623Y-16-F	623Y-16-M
19	623Y-19-F	623Y-19-M

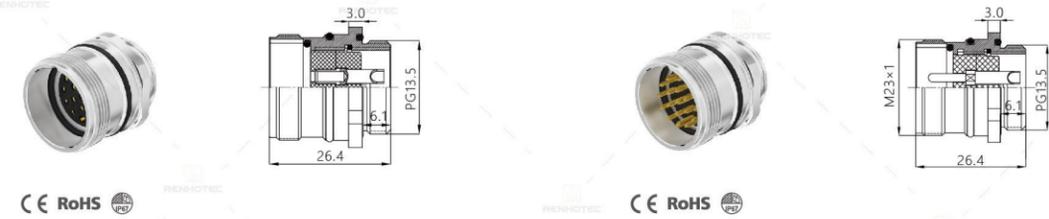
Component Part



M23 Wiring

Female Contact	Wiring Colours and Sequences		Male Contact
	Contacts	Wire Colours (6Pin)	
	1	RD	
	2	BK	
	3	WH	
	4	GN	
	5	GY	
	6	PK	
	Contacts	Wire Colours (9Pin)	
	1	BN	
	2	WH	
	3	BU	
	4	BK	
	5	GY	
	6	YE	
	7	GN	
	8	RD	
	9	PK	
	Contacts	Wire Colours (12Pin)	
	1	WH	
	2	BN	
	3	GN	
	4	YE	
	5	GY	
	6	PK	
	7	BU	
	8	RD	
	9	OR	
	10	VT	
	11	BK	
	12	TP	
	Contacts	Wire Colours (16Pin)	
	1	VT	
	2	RD	
	3	GY	
	4	RD/BU	
	5	GN	
	6	BU	
	7	GY/PK	
	8	WH,GN	
	9	WH,YE	
	10	WH,GY	
	11	BK	
	12	GN,YE	
	13	YE,BN	
	14	WH	
	15	YE	
	16	BN	
	Contacts	Wire Colours (19Pin)	
	1	VT	
	2	RD	
	3	GY	
	4	RD,BU	
	5	GN	
	6	BU	
	7	GY/PK	
	8	GN,WH	
	9	YE,WH	
	10	GY,WH	
	11	BK	
	12	GN,YE	
	13	PK	
	14	BN,GY	
	15	BN,YE	
	16	BN,GN	
	17	WH	
	18	YE	
	19	BN	

M23 Panel Mount Receptacle with Hexagonal Nut, Rear Fastened, Solder Cup, Straight



Specification

Number of positions	6	9	12	16	19
Insert arrangement (Female)					
Insert arrangement (Male)					
Rated current	20A	8A/20A	8A	8A	8A/20A
Rated voltage	200V	260V/300V	200V	125V	125V/200V
Wire gauge	14AWG/2.5mm ²	16AWG/1.5mm ² / 14AWG/2.5mm ²		18AWG/1.0mm ²	16AWG/1.5mm ² /18AWG/1.0mm ²
Insulation resistance	≥100MΩ				
Contact resistance	≤3mΩ				
Temperature range	-40 C ~ +120 C				
Protection rating	IP67 (Mated)				
Body material	Zinc Alloy, Nickel Plated				
Screw nut material	Zinc Alloy, Nickel Plated				
Insulation material	PA66+GF				
Contact termination	Solder Cup				
Contact material	Brass, Gold Plated				
Seal	NBR, Black				
Shielding	Unshielded				
Mating cycles	≥500				

Part Number

Number of positions	Female	Male
6	623B-06-F	623B-06-M
9	623B-09-F	623B-09-M
12	623B-12-F	623B-12-M
16	623B-16-F	623B-16-M
19	623B-19-F	623B-19-M

M23 Panel Mount Receptacle, Flange Fastened, Solder Cup, Straight

M23 Signal Field Assembly Connector, Straight



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Specification

Specification

Number of positions	6	9	12	16	19
Insert arrangement (Female)					
Insert arrangement (Male)					
Rated current	20A	8A/20A	8A	8A	8A/20A
Rated voltage	200V	260V/300V	200V	125V	125V/200V
Wire gauge	14AWG/2.5mm ²	16AWG/1.5mm ² / 14AWG/2.5mm ²	18AWG/1.0mm ²	18AWG/1.0mm ²	16AWG/1.5mm ² /18AWG/1.0mm ²
Insulation resistance	≥100MΩ				
Contact resistance	≤3mΩ				
Temperature range	-40 C ~ +120 C				
Protection rating	IP67 (Mated)				
Body material	Zinc Alloy, Nickel Plated				
Screw nut material	Zinc Alloy, Nickel Plated				
Insulation material	PA66+GF				
Contact termination	Solder Cup				
Contact material	Brass, Gold Plated				
Seal	NBR, Black				
Shielding	Unshielded				
Mating cycles	≥500				

Number of positions	6	7	9	12	17	19
Female E layout						
Male E layout						
Female P layout						
Male P layout						

Rated current	20A	8A	8A/20A
Rated voltage	300V		
Rated voltage	260V		
Rated voltage	125V/200V		
Wire gauge	14AWG/2.5mm ²	16AWG/1.5mm ²	18AWG/1.0mm ² / 16AWG/1.5mm ² /18AWG/1.0mm ²
Insulation resistance	≥100MΩ		
Contact resistance	≤3mΩ		
Temperature range	-25 C ~ +85 C		
Protection rating	IP67 (Mated)		
Body material	Zinc Alloy, Nickel Plated		
Screw nut material	Zinc Alloy, Nickel Plated		
Insulation material	PA66+GF		
Contact termination	Crimp/Solder Cup		
Contact material	Brass, Gold Plated		
Seal	NBR, Black		
Shielding	Shielded		
Mating cycles	≥500		

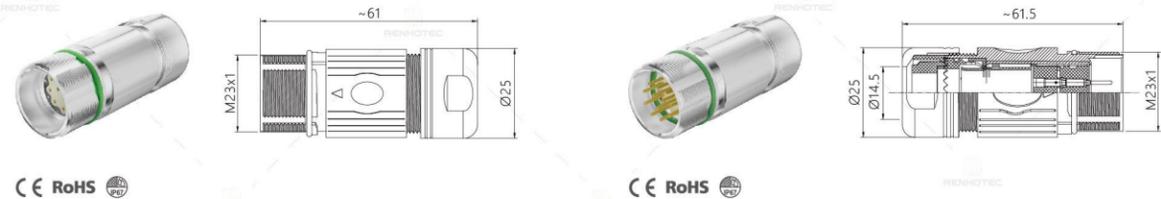
Part Number

Part Number

Number of positions	Female	Male
6	623H-06-F	623H-06-M
9	623H-09-F	623H-09-M
12	623H-12-F	623H-12-M
16	623H-16-F	623H-16-M
19	623H-19-F	623H-19-M

Number of positions	Female		Male	
	E Layout	P Layout	E Layout	P Layout
6	M623A-06-F-E	M623A-06-F-P	M623A-06-M-E	M623A-06-M-P
7	M623A-07-F-E	M623A-07-F-P	M623A-07-M-E	M623A-07-M-P
9	M623A-09-F-E	M623A-09-F-P	M623A-09-M-E	M623A-09-M-P
12	M623A-12-F-E	M623A-12-F-P	M623A-12-M-E	M623A-12-M-P
17	M623A-17-F-E	M623A-17-F-P	M623A-17-M-E	M623A-17-M-P
19	M623A-19-F-E	M623A-19-F-P	M623A-19-M-E	M623A-19-M-P

M23 Signal Field Assembly Connector, Straight



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Specification

Number of positions	6	7	9	12	17	19
Female E layout						
Male E layout						
Female P layout						
Male P layout						

Rated current	20A		8A		8A/20A	
Rated voltage	300V					
Rated voltage			260V		125V/200V	
Wire gauge	14AWG/2.5mm ²		16AWG/1.5mm ²		18AWG/1.0mm ²	
Wire gauge			18AWG/1.0mm ²		16AWG/1.5mm ² /18AWG/1.0mm ²	
Insulation resistance	≥100MΩ					
Contact resistance	≤3mΩ					
Temperature range	-25°C ~ +85°C					
Protection rating	IP67 (Mated)					
Body material	Zinc Alloy, Nickel Plated					
Screw nut material	Zinc Alloy, Nickel Plated					
Insulation material	PA66+GF					
Contact termination	Crimp/Solder Cup					
Contact material	Brass, Gold Plated					
Seal	NBR, Black					
Shielding	Shielded					
Mating cycles	≥500					

Part Number

Number of positions	Female		Male	
	E Layout	P Layout	E Layout	P Layout
6	M623K-06-F-E	M623K-06-F-P	M623K-06-M-E	M623K-06-M-P
7	M623K-07-F-E	M623K-07-F-P	M623K-07-M-E	M623K-07-M-P
9	M623K-09-F-E	M623K-09-F-P	M623K-09-M-E	M623K-09-M-P
12	M623K-12-F-E	M623K-12-F-P	M623K-12-M-E	M623K-12-M-P
17	M623K-17-F-E	M623K-17-F-P	M623K-17-M-E	M623K-17-M-P
19	M623K-19-F-E	M623K-19-F-P	M623K-19-M-E	M623K-19-M-P

M23 Signal Field Assembly Connector, Angled



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Specification

Number of positions	6	7	9	12	17	19
Female E layout						
Male E layout						
Female P layout						
Male P layout						

Rated current	20A		8A		8A/20A	
Rated voltage	300V					
Rated voltage			260V		125V/200V	
Wire gauge	14AWG/2.5mm ²		16AWG/1.5mm ²		18AWG/1.0mm ²	
Wire gauge			18AWG/1.0mm ²		16AWG/1.5mm ² /18AWG/1.0mm ²	
Insulation resistance	≥100MΩ					
Contact resistance	≤3mΩ					
Temperature range	-25°C ~ +85°C					
Protection rating	IP67 (Mated)					
Body material	Zinc Alloy, Nickel Plated					
Screw nut material	Zinc Alloy, Nickel Plated					
Insulation material	PA66+GF					
Contact termination	Crimp/Solder Cup					
Contact material	Brass, Gold Plated					
Seal	NBR, Black					
Shielding	Shielded					
Mating cycles	≥500					

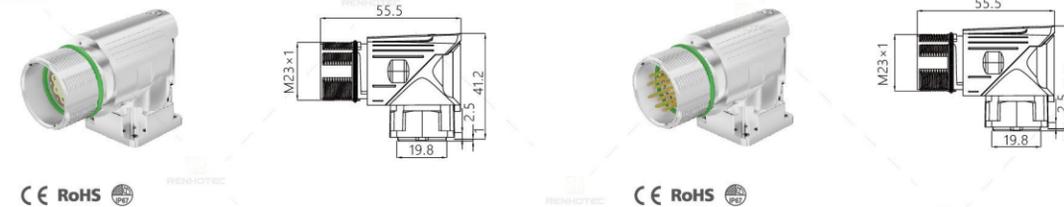
Part Number

Number of positions	Female		Male	
	E Layout	P Layout	E Layout	P Layout
6	M623B-06-F-E	M623B-06-F-P	M623B-06-M-E	M623B-06-M-P
7	M623B-07-F-E	M623B-07-F-P	M623B-07-M-E	M623B-07-M-P
9	M623B-09-F-E	M623B-09-F-P	M623B-09-M-E	M623B-09-M-P
12	M623B-12-F-E	M623B-12-F-P	M623B-12-M-E	M623B-12-M-P
17	M623B-17-F-E	M623B-17-F-P	M623B-17-M-E	M623B-17-M-P
19	M623B-19-F-E	M623B-19-F-P	M623B-19-M-E	M623B-19-M-P

M23 Wiring

Female Contact		Wiring Colours and Sequences		Male Contact	
E Series	P Series	Contacts	Wire Colours	E Series	P Series
		1 2 3 4 5 6	(6Pin) RD BK WH GN GY PK		
		1 2 3 4 5 6 7	(7Pin) WH GN YE GY PK RD BK		
		1 2 3 4 5 6 7 8 9	(9Pin) BN WH BU BK GY YE GN RD PK		
		1 2 3 4 5 6 7 8 9 10 11 12	(12Pin) WH BN GN YE GY PK BU RD OR VT BK TP		
		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	(17Pin) BN BU WH GN PK YE BK GY RD VT GY,PK RD,BU WH,GN BN,YE WH,YE YE,BN WH,GY		
		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	(19Pin) VT RD GY RD,BU GN BU GY/PK GN,WH YE,WH GY,WH BK GN,YE PK BN,GY BN,YE BN,GN WH YE BN		

M23 Signal Panel Mount Receptacle, Flange Fastened, Angled



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Specification

Number of positions	6	7	9	12	17	19
Female E layout						
Male E layout						
Female P layout						
Male P layout						

Rated current	20A	8A	8A/20A
Rated voltage	300V	260V	125V/200V
Wire gauge	14AWG/2.5mm ²	16AWG/1.5mm ²	18AWG/1.0mm ² 16AWG/1.5mm ² /18AWG/1.0mm ²
Insulation resistance	≥100MΩ		
Contact resistance	≤3mΩ		
Temperature range	-25°C ~ +85°C		
Protection rating	IP67 (Mated)		
Body material	Zinc Alloy, Nickel Plated		
Screw nut material	Zinc Alloy, Nickel Plated		
Insulation material	PA66+GF		
Contact termination	Crimp/Solder Cup		
Contact material	Brass, Gold Plated		
Seal	NBR, Black		
Shielding	Unshielded		
Mating cycles	≥500		

Part Number

Number of positions	Female		Male	
	E Layout	P Layout	E Layout	P Layout
6	M623D-06-F-E	M623D-06-F-P	M623D-06-M-E	M623D-06-M-P
7	M623D-07-F-E	M623D-07-F-P	M623D-07-M-E	M623D-07-M-P
9	M623D-09-F-E	M623D-09-F-P	M623D-09-M-E	M623D-09-M-P
12	M623D-12-F-E	M623D-12-F-P	M623D-12-M-E	M623D-12-M-P
17	M623D-17-F-E	M623D-17-F-P	M623D-17-M-E	M623D-17-M-P
19	M623D-19-F-E	M623D-19-F-P	M623D-19-M-E	M623D-19-M-P

M23 Signal Panel Mount Receptacle, Flange Fastened, Angled



Specification

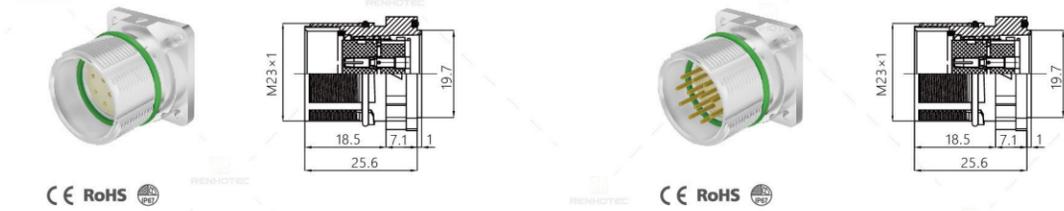
Number of positions	6	7	9	12	17	19
Female E layout						
Male E layout						
Female P layout						
Male P layout						

Rated current	20A		8A		8A/20A	
Rated voltage	300V		260V		125V/200V	
Wire gauge	14AWG/2.5mm ²		16AWG/1.5mm ²	18AWG/1.0mm ²	16AWG/1.5mm ² /18AWG/1.0mm ²	
Insulation resistance	≥100MΩ					
Contact resistance	≤3mΩ					
Temperature range	-25°C ~ +85°C					
Protection rating	IP67 (Mated)					
Body material	Zinc Alloy, Nickel Plated					
Screw nut material	Zinc Alloy, Nickel Plated					
Insulation material	PA66+GF					
Contact termination	Crimp/Solder Cup					
Contact material	Brass, Gold Plated					
Seal	NBR, Black					
Shielding	Unshielded					
Mating cycles	≥500					

Part Number

Number of positions	Female		Male	
	E Layout	P Layout	E Layout	P Layout
6	M623D1-06-F-E	M623D1-06-F-P	M623D1-06-M-E	M623D1-06-M-P
7	M623D1-07-F-E	M623D1-07-F-P	M623D1-07-M-E	M623D1-07-M-P
9	M623D1-09-F-E	M623D1-09-F-P	M623D1-09-M-E	M623D1-09-M-P
12	M623D1-12-F-E	M623D1-12-F-P	M623D1-12-M-E	M623D1-12-M-P
17	M623D1-17-F-E	M623D1-17-F-P	M623D1-17-M-E	M623D1-17-M-P
19	M623D1-19-F-E	M623D1-19-F-P	M623D1-19-M-E	M623D1-19-M-P

M23 Signal Panel Mount Receptacle, Flange Fastened, Straight



Specification

Number of positions	6	7	9	12	17	19
Female E layout						
Male E layout						
Female P layout						
Male P layout						

Rated current	20A		8A		8A/20A	
Rated voltage	300V		260V		125V/200V	
Wire gauge	14AWG/2.5mm ²		16AWG/1.5mm ²	18AWG/1.0mm ²	16AWG/1.5mm ² /18AWG/1.0mm ²	
Insulation resistance	≥100MΩ					
Contact resistance	≤3mΩ					
Temperature range	-25°C ~ +85°C					
Protection rating	IP67 (Mated)					
Body material	Zinc Alloy, Nickel Plated					
Screw nut material	Zinc Alloy, Nickel Plated					
Insulation material	PA66+GF					
Contact termination	Crimp/Solder Cup					
Contact material	Brass, Gold Plated					
Seal	NBR, Black					
Shielding	Unshielded					
Mating cycles	≥500					

Part Number

Number of positions	Female		Male	
	E Layout	P Layout	E Layout	P Layout
6	M623H-06-F-E	M623H-06-F-P	M623H-06-M-E	M623H-06-M-P
7	M623H-07-F-E	M623H-07-F-P	M623H-07-M-E	M623H-07-M-P
9	M623H-09-F-E	M623H-09-F-P	M623H-09-M-E	M623H-09-M-P
12	M623H-12-F-E	M623H-12-F-P	M623H-12-M-E	M623H-12-M-P
17	M623H-17-F-E	M623H-17-F-P	M623H-17-M-E	M623H-17-M-P
19	M623H-19-F-E	M623H-19-F-P	M623H-19-M-E	M623H-19-M-P

M23 Signal Single-ended Cable, Straight



CE RoHS

CE RoHS

Specification

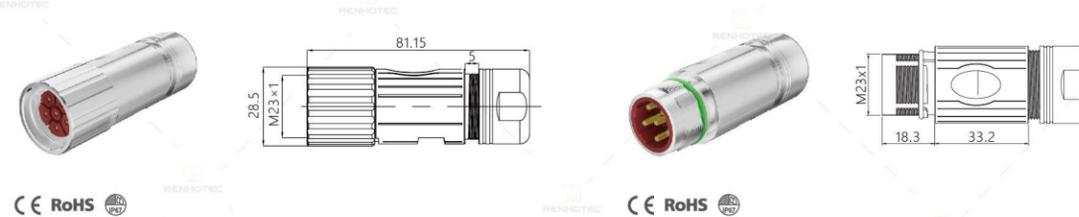
Number of positions	6	7	9	12	17	19
Insert arrangement (Female)						
Insert arrangement (Male)						

Rated current	20A	8A	8A/20A
Rated voltage	300V	260V	125V/200V
Wire gauge	14AWG/2.5mm ²	16AWG/1.5mm ²	18AWG/1.0mm ² 16AWG/1.5mm ² /18AWG/1.0mm ²
Insulation resistance	≥100MΩ		
Contact resistance	≤3mΩ		
Temperature range	-25°C ~ +85°C		
Protection rating	IP67 (Mated)		
Over-molding material	PVC/TPU		
Screw nut material	Zinc Alloy, Nickel Plated		
Insulation material	PA66+GF		
Contact termination	Crimp/Solder Cup		
Contact material	Brass, Gold Plated		
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
6	1m	RHT-605-10269-06-C-100	RHT-605-10269-06-R-100	RHT-605-10268-06-C-100	RHT-605-10268-06-R-100
	Customized	RHT-605-10269-06-C-XXX	RHT-605-10269-06-R-XXX	RHT-605-10268-06-C-XXX	RHT-605-10268-06-R-XXX
7	1m	RHT-605-10269-07-C-100	RHT-605-10269-07-R-100	RHT-605-10268-07-C-100	RHT-605-10268-07-R-100
	Customized	RHT-605-10269-07-C-XXX	RHT-605-10269-07-R-XXX	RHT-605-10268-07-C-XXX	RHT-605-10268-07-R-XXX
9	1m	RHT-605-10269-09-C-100	RHT-605-10269-09-R-100	RHT-605-10268-09-C-100	RHT-605-10268-09-R-100
	Customized	RHT-605-10269-09-C-XXX	RHT-605-10269-09-R-XXX	RHT-605-10268-09-C-XXX	RHT-605-10268-09-R-XXX
12	1m	RHT-605-10269-12-C-100	RHT-605-10269-12-R-100	RHT-605-10268-12-C-100	RHT-605-10268-12-R-100
	Customized	RHT-605-10269-12-C-XXX	RHT-605-10269-12-R-XXX	RHT-605-10268-12-C-XXX	RHT-605-10268-12-R-XXX
17	1m	RHT-605-10269-17-C-100	RHT-605-10269-17-R-100	RHT-605-10268-17-C-100	RHT-605-10268-17-R-100
	Customized	RHT-605-10269-17-C-XXX	RHT-605-10269-17-R-XXX	RHT-605-10268-17-C-XXX	RHT-605-10268-17-R-XXX
19	1m	RHT-605-10269-19-C-100	RHT-605-10269-19-R-100	RHT-605-10268-19-C-100	RHT-605-10268-19-R-100
	Customized	RHT-605-10269-19-C-XXX	RHT-605-10269-19-R-XXX	RHT-605-10268-19-C-XXX	RHT-605-10268-19-R-XXX

M23 Power Field Assembly Connector, Crimp, Straight



CE RoHS

CE RoHS

Specification

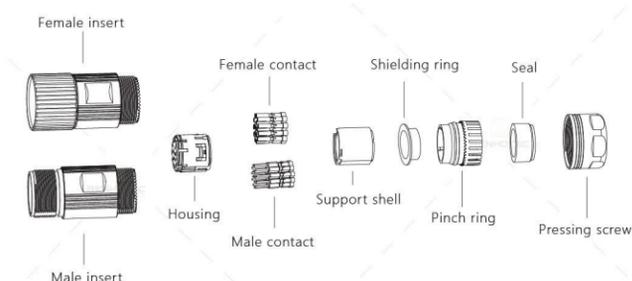
Number of positions	6	8
Insert arrangement (Female)		
Insert arrangement (Male)		

Rated current	28A
Rated voltage	600V
Wire gauge	14AWG/2.5mm ²
Insulation resistance	≥100MΩ
Contact resistance	≤3mΩ
Temperature range	-20°C ~ +85°C
Protection rating	IP67 (Mated)
Body material	Zinc Alloy, Nickel Plated
Screw nut material	Zinc Alloy, Nickel Plated
Insulation material	PA66+GF
Contact termination	Crimp
Contact material	Brass, Gold Plated
Seal	NBR, Black
Shielding	Shielded
Mating cycles	≥500

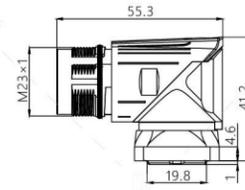
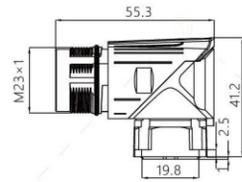
Part Number

Number of positions	Female	Male
6	M923A-06	M923K-06
8	M923A-08	M923K-08

Component Part



M23 Power Panel Mount Receptacle, Flange Fastened, Crimp, Angled



CE RoHS

CE RoHS

Specification

Number of positions	6	8
Insert arrangement (Female)		
Insert arrangement (Male)		

Rated current	28A
Rated voltage	600V
Wire gauge	14AWG/2.5mm ²
Insulation resistance	≥100MΩ
Contact resistance	≤3mΩ
Temperature range	-20°C ~ +85°C
Protection rating	IP67 (Mated)
Body material	Zinc Alloy, Nickel Plated
Screw nut material	Zinc Alloy, Nickel Plated
Insulation material	PA66+GF
Contact termination	Crimp
Contact material	Brass, Gold Plated
Seal	NBR, Black
Shielding	Unshielded
Mating cycles	≥500

Part Number

Number of positions	25.7	28.2
6	M923D-06	M923D1-06
8	M923D-08	M923D1-08