

K

Series

K12/K16/K20/K28 difference type
2pin to 26pin

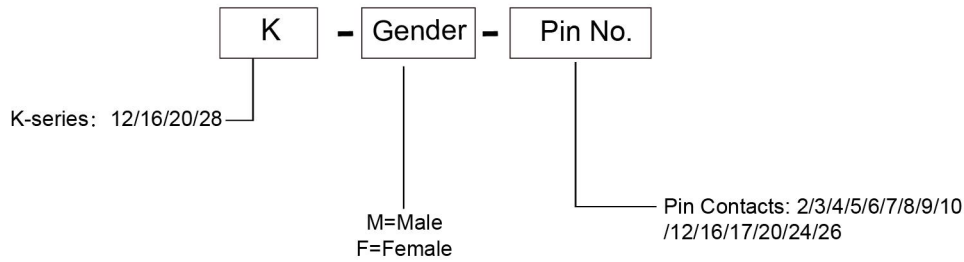
Self-locking waterproof connector

Support High current

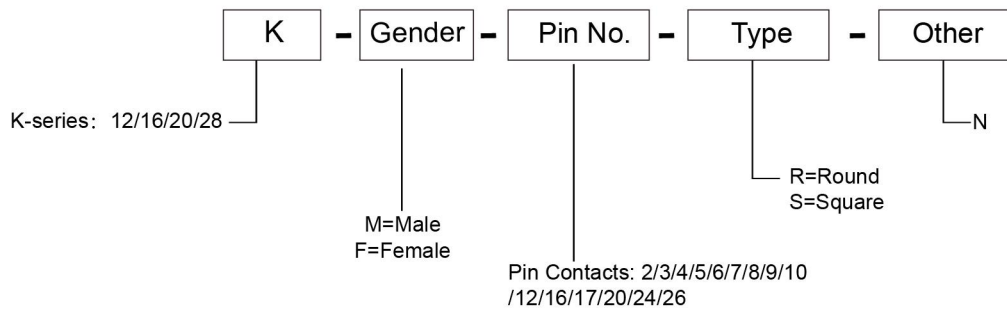
Panel mount and assembly connector
IP68 degree



K Series waterproof connector naming rules



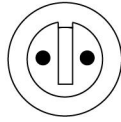

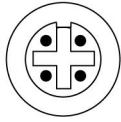
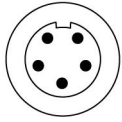
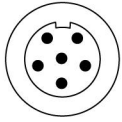
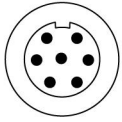
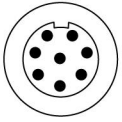
K Series waterproof socket naming rules

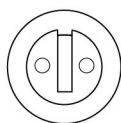

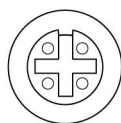
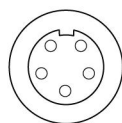
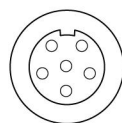
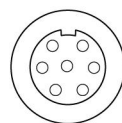
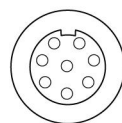


K12 Series


Product picture	Part No./Model No.	Dimensions
	K12 male self-locking waterproof connector K12-M- <input type="text"/> Pin No. <input type="text"/> Pin No. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Model No.:RGK12001	
	K12 female self-locking waterproof connector K12-F- <input type="text"/> -N Pin No. <input type="text"/> Pin No. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Model No.:RGK12002	
	K12 female waterproof round socket K12-F- <input type="text"/> -R Pin No. <input type="text"/> Pin No. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Model No.:RGK12003	
	K12 female waterproof square socket K12-F- <input type="text"/> -S Pin No. <input type="text"/> Pin No. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Model No.:RGK12004	
	K12 female self-locking waterproof connector K12-F- <input type="text"/> Pin No. <input type="text"/> Pin No. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Model No.:RGK12005	
	K12 male self-locking waterproof connector K12-M- <input type="text"/> -N Pin No. <input type="text"/> Pin No. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Model No.:RGK12006	
	K12 male waterproof round socket K12-M- <input type="text"/> -R Pin No. <input type="text"/> Pin No. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Model No.:RGK12007	
	K12 male waterproof square socket K12-M- <input type="text"/> -S Pin No. <input type="text"/> Pin No. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Model No.:RGK12008	

Technical Date (K12)

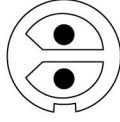
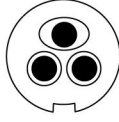


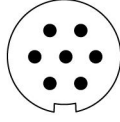
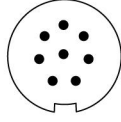
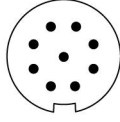
Pin No.	2	3	4	5	6	7	8
Pin for reference							
Cable AWG	0.3-0.5mm ² / 22-20AWG				0.2-0.3mm ² / 24-22AWG		
Cable OD	ø3mm ~ ø6mm						
Rated current	5A				3A		
Rated voltage	250V				200V		
Contact resistance	≤5mΩ				≤10mΩ		
Voltage resistance (AC.V)	1500V/min						
Insulation resistance	≤500mΩ						
Operating Temperature	-40℃ ~ 80℃						
Degree of protection	silica gel/IP68						
Connector locking system	Assembly						
Mechanical operation	>500 mating cycles						
Button	Zinc alloy						
Pin	Cu alloy(gold plating)						
Body material	High performance engineering plastics						
Fame retardant rating	UL94-V0						
Nut tightening torque	6.3N.M						


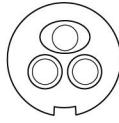


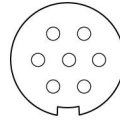
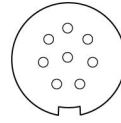
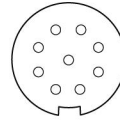
Pin No.	2	3	4	5	6	7	8
Pin for reference							
Cable AWG	0.3-0.5mm ² / 22-20AWG				0.2-0.3mm ² / 24-22AWG		
Cable OD	ø3mm ~ ø6mm						
Rated current	5A				3A		
Rated voltage	250V				200V		
Contact resistance	≤5mΩ				≤10mΩ		
Voltage resistance (AC.V)	1500V/min						
Insulation resistance	≤500mΩ						
Operating Temperature	-40℃ ~ 80℃						
Degree of protection	silica gel/IP68						
Connector locking system	Assembly						
Mechanical operation	>500 mating cycles						
Button	Zinc alloy						
Pin	Cu alloy(gold plating)						
Body material	High performance engineering plastics						
Fame retardant rating	UL94-V0						
Nut tightening torque	6.3N.M						

K16 Series

Product picture	Part No./Model No.	Dimensions
	K16 male self-locking waterproof connector K16-M- <input type="text"/> Pin No.	
	Pin No. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Model No.:RGK16001	
	K16 female self-locking waterproof connector K16-F- <input type="text"/> -N Pin No.	
	Pin No. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Model No.:RGK16002	
	K16 female waterproof round socket K16-F- <input type="text"/> -R Pin No.	
	Pin No. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Model No.:RGK16003	
	K16 female waterproof square socket K16-F- <input type="text"/> -S Pin No.	
	Pin No. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Model No.:RGK16004	
	K16 female self-locking waterproof connector K16-F- <input type="text"/> Pin No.	
	Pin No. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Model No.:RGK16005	
	K16 male self-locking waterproof connector K16-M- <input type="text"/> -N Pin No.	
	Pin No. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Model No.:RGK16006	
	K16 male waterproof round socket K16-M- <input type="text"/> -R Pin No.	
	Pin No. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Model No.:RGK16007	
	K16 male waterproof square socket K16-M- <input type="text"/> -S Pin No.	
	Pin No. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Model No.:RGK16008	

Technical Date (K16)

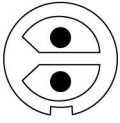



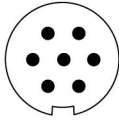
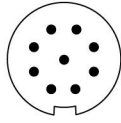
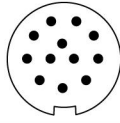
Pin No.	2	3	4	5	7	8	9
Pin for reference							
Cable AWG	1.0-1.5mm ² / 18-16AWG				0.3-0.5mm ² / 22-20AWG		
Cable OD	Ø3mm ~ Ø9mm						
Rated current	10A				5A		
Rated voltage	500V				250V		
Contact resistance	≤2.5mΩ				≤5mΩ		
Voltage resistance (AC.V)	2500V/min				1500V/min		
Insulation resistance	≤500mΩ						
Operating Temperature	-40℃~80℃						
Degree of protection	silica gel/IP68						
Connector locking system	Assembly						
Mechanical operation	>500 mating cycles						
Button	Zinc alloy						
Pin	Cu alloy(gold plating)						
Body material	High performance engineering plastics						
Fame retardant rating	UL94-V0						
Nut tightening torque	9.5N.M						


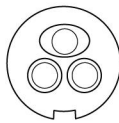

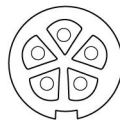
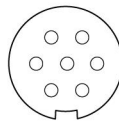
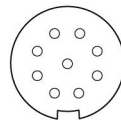
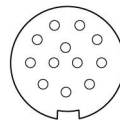
Pin No.	2	3	4	5	7	8	9
Pin for reference							
Cable AWG	1.0-1.5mm ² / 18-16AWG				0.3-0.5mm ² / 22-20AWG		
Cable OD	Ø3mm ~ Ø9mm						
Rated current	10A				5A		
Rated voltage	500V				250V		
Contact resistance	≤2.5mΩ				≤5mΩ		
Voltage resistance (AC.V)	2500V/min				1500V/min		
Insulation resistance	≤500mΩ						
Operating Temperature	-40℃~80℃						
Degree of protection	silica gel/IP68						
Connector locking system	Assembly						
Mechanical operation	>500 mating cycles						
Button	Zinc alloy						
Pin	Cu alloy(gold plating)						
Body material	High performance engineering plastics						
Fame retardant rating	UL94-V0						
Nut tightening torque	9.5N.M						

K20 Series


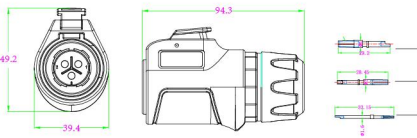

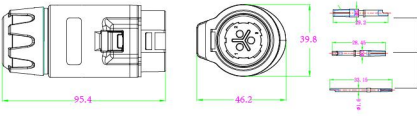

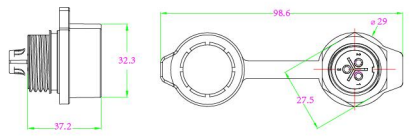

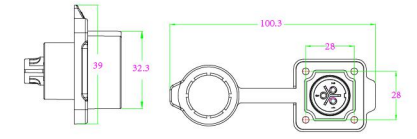

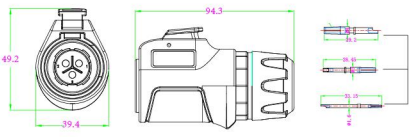

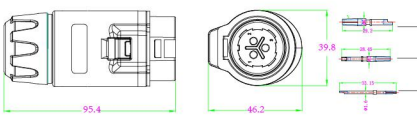

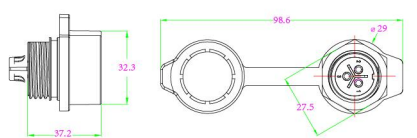

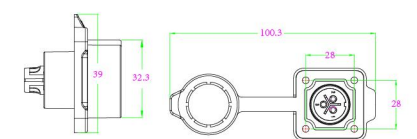
Product picture	Part No./Model No.	Dimensions								
	K20 male self-locking waterproof connector K20-M- <input type="text"/> Pin No. <table border="1" style="margin-left: 20px;"> <tr> <td>Pin No.</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>7</td> <td>9</td> <td>12</td> </tr> </table> Model No.:RGK20001	Pin No.	2	3	4	5	7	9	12	
Pin No.	2	3	4	5	7	9	12			
	K20 female waterproof butt plug K20-F- <input type="text"/> -N Pin No. <table border="1" style="margin-left: 20px;"> <tr> <td>Pin No.</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>7</td> <td>9</td> <td>12</td> </tr> </table> Model No.:RGK20002	Pin No.	2	3	4	5	7	9	12	
Pin No.	2	3	4	5	7	9	12			
	K20 female waterproof round socket K20-F- <input type="text"/> -R Pin No. <table border="1" style="margin-left: 20px;"> <tr> <td>Pin No.</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>7</td> <td>9</td> <td>12</td> </tr> </table> Model No.:RGK20003	Pin No.	2	3	4	5	7	9	12	
Pin No.	2	3	4	5	7	9	12			
	K20 female waterproof square socket K20-F- <input type="text"/> -S Pin No. <table border="1" style="margin-left: 20px;"> <tr> <td>Pin No.</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>7</td> <td>9</td> <td>12</td> </tr> </table> Model No.:RGK20004	Pin No.	2	3	4	5	7	9	12	
Pin No.	2	3	4	5	7	9	12			
	K20 female self-locking waterproof connector K20-F- <input type="text"/> Pin No. <table border="1" style="margin-left: 20px;"> <tr> <td>Pin No.</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>7</td> <td>9</td> <td>12</td> </tr> </table> Model No.:RGK20005	Pin No.	2	3	4	5	7	9	12	
Pin No.	2	3	4	5	7	9	12			
	K20 male waterproof butt plug K20-M- <input type="text"/> -N Pin No. <table border="1" style="margin-left: 20px;"> <tr> <td>Pin No.</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>7</td> <td>9</td> <td>12</td> </tr> </table> Model No.:RGK20006	Pin No.	2	3	4	5	7	9	12	
Pin No.	2	3	4	5	7	9	12			
	K20 male waterproof round socket K20-M- <input type="text"/> -R Pin No. <table border="1" style="margin-left: 20px;"> <tr> <td>Pin No.</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>7</td> <td>9</td> <td>12</td> </tr> </table> Model No.:RGK20007	Pin No.	2	3	4	5	7	9	12	
Pin No.	2	3	4	5	7	9	12			
	K20 male waterproof square socket K20-M- <input type="text"/> -S Pin No. <table border="1" style="margin-left: 20px;"> <tr> <td>Pin No.</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>7</td> <td>9</td> <td>12</td> </tr> </table> Model No.:RGK20008	Pin No.	2	3	4	5	7	9	12	
Pin No.	2	3	4	5	7	9	12			

Technical Date (K20)

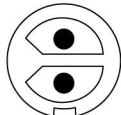
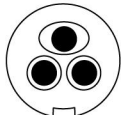


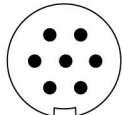
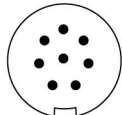
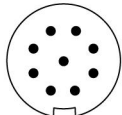




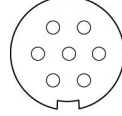
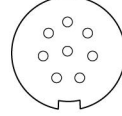
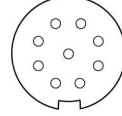
Pin No.	2	3	4	5	7	9	12
Pin for reference							
Cable AWG	2.5-4.0mm ² / 14-12AWG			1.0-1.5mm ² / 18-16AWG		0.3-0.5mm ² / 22-20AWG	
Cable OD	Ø9mm ~ Ø13mm			Ø7mm ~ Ø10mm			
Rated current	25A			12A		5A	
Rated voltage	500V			250V		200V	
Contact resistance	≤1.0mΩ			≤2.5mΩ		≤5mΩ	
Voltage resistance (AC.V)	2500V/min					1500V/min	
Insulation resistance	≤500mΩ						
Operating Temperature	-40℃~80℃						
Degree of protection	silica gel/IP68						
Connector locking system	Assembly						
Mechanical operation	>500 mating cycles						
Button	Zinc alloy						
Pin	Cu alloy(gold plating)						
Body material	High performance engineering plastics						
Fame retardant rating	UL94-V0						
Nut tightening torque	13N.M						

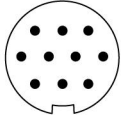
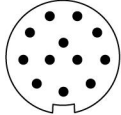
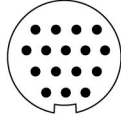
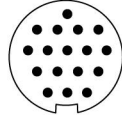
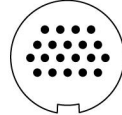
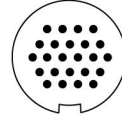
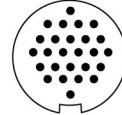
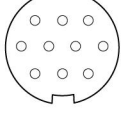
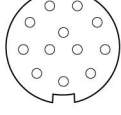
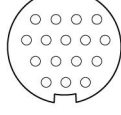
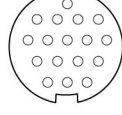
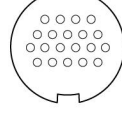
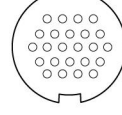
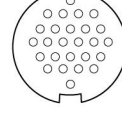
Pin No.	2	3	4	5	7	9	12
Pin for reference							
Cable AWG	2.5-4.0mm ² / 14-12AWG			1.0-1.5mm ² / 18-16AWG		0.3-0.5mm ² / 22-20AWG	
Cable OD	Ø9mm ~ Ø13mm			Ø7mm ~ Ø10mm			
Rated current	25A			12A		5A	
Rated voltage	500V			250V		200V	
Contact resistance	≤1.0mΩ			≤2.5mΩ		≤5mΩ	
Voltage resistance (AC.V)	2500V/min					1500V/min	
Insulation resistance	≤500mΩ						
Operating Temperature	-40℃~80℃						
Degree of protection	silica gel/IP68						
Connector locking system	Assembly						
Mechanical operation	>500 mating cycles						
Button	Zinc alloy						
Pin	Cu alloy(gold plating)						
Body material	High performance engineering plastics						
Fame retardant rating	UL94-V0						
Nut tightening torque	13N.M						

K28 Series

Product picture	Part No./Model No.	Dimensions																				
	K28 male self-locking waterproof connector K28-M- <input type="text"/> Pin No. <input type="text"/> <table border="1" style="margin-left: 20px;"> <tr> <td>Pin No.</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> <td>12</td> </tr> <tr> <td>Pin No.</td> <td>16</td> <td>17</td> <td>20</td> <td>24</td> <td>26</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> Model No.:RGK28001	Pin No.	2	3	4	5	7	8	9	10	12	Pin No.	16	17	20	24	26					
Pin No.	2	3	4	5	7	8	9	10	12													
Pin No.	16	17	20	24	26																	
	K28 female self-locking waterproof connector K28-F- <input type="text"/> -N Pin No. <input type="text"/> <table border="1" style="margin-left: 20px;"> <tr> <td>Pin No.</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> <td>12</td> </tr> <tr> <td>Pin No.</td> <td>16</td> <td>17</td> <td>20</td> <td>24</td> <td>26</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> Model No.:RGK28002	Pin No.	2	3	4	5	7	8	9	10	12	Pin No.	16	17	20	24	26					
Pin No.	2	3	4	5	7	8	9	10	12													
Pin No.	16	17	20	24	26																	
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Pin No.	2	3	4	5	7	8	9	10	12													
Pin No.	16	17	20	24	26																	
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Pin No.	2	3	4	5	7	8	9	10	12													
Pin No.	16	17	20	24	26																	
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Pin No.	2	3	4	5	7	8	9	10	12													
Pin No.	16	17	20	24	26																	
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Pin No.	2	3	4	5	7	8	9	10	12													
Pin No.	16	17	20	24	26																	
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Pin No.	2	3	4	5	7	8	9	10	12													
Pin No.	16	17	20	24	26																	
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Pin No.	2	3	4	5	7	8	9	10	12													
Pin No.	16	17	20	24	26																	

Technical Date (K28)

Pin No.	2	3	4	5	7	8	9
Pin for reference							
							
Cable AWG	10-13mm ² / 7AWG			2.5-4.0mm ² -/12AWG			
Cable OD	Ø18mm-Ø20mm			Ø13mm ~ Ø15mm			
Rated current	50A			25A			
Rated voltage	500V						
Contact resistance	≤0.5mΩ			≤1mΩ			
Voltage resistance (AC.V)	2500V/min						
Insulation resistance	≤500mΩ						
Operating Temperature	-40 C ~80 C						
Degree of protection	silica gel/IP68						
Connector locking system	Assembly						
Mechanical operation	>500 mating cycles						
Button	Zinc alloy						
Pin	Cu alloy(gold plating)						
Body material	High performance engineering plastics						
Fame retardant rating	UL94-V0						
Nut tightening torque	20.5N.M						

Pin No.	10	12	16	17	20	24	26
Pin for reference							
							
Cable AWG	2.5-4.0mm ² -/12AWG	1.0-2.0mm ² / 16AWG				0.75mm ² / 18AWG	
Cable OD	Ø13mm ~ Ø15mm	Ø9mm ~ Ø14mm					
Rated current	25A	10A				5A	
Rated voltage	500V				400V		
Contact resistance	≤0.5mΩ	≤2.5mΩ			≤5mΩ		
Voltage resistance (AC.V)	500V/min	1500V/min					
Insulation resistance	≤500mΩ						
Operating Temperature	-40 C ~80 C						
Degree of protection	silica gel/IP68						
Connector locking system	Assembly						
Mechanical operation	>500 mating cycles						
Button	Zinc alloy						
Pin	Cu alloy(gold plating)						
Body material	High performance engineering plastics						
Fame retardant rating	UL94-V0						
Nut tightening torque	20.5N.M						