

K

Series

K12/K16/K20/K28 difference type

2pin to 26pin

Self-locking waterproof connector

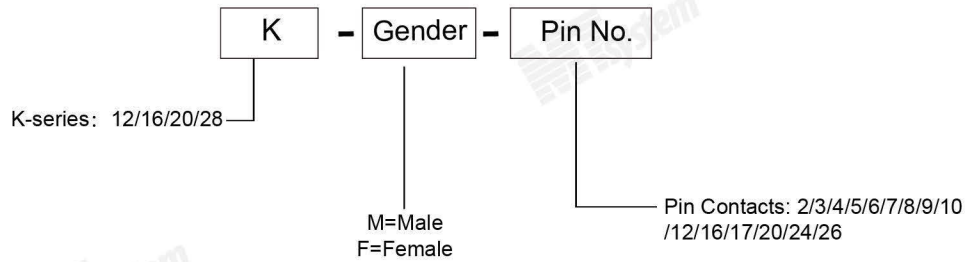
Support High current

Panel mount and assembly connector

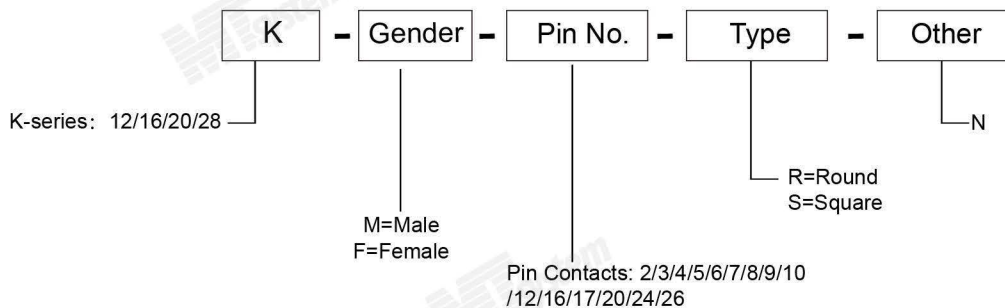
IP68 degree



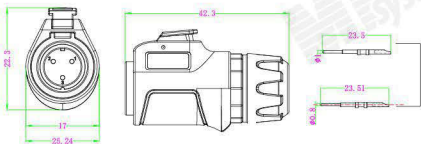
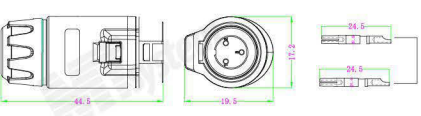
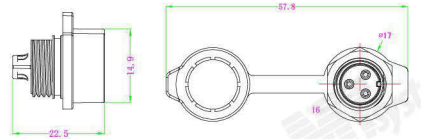
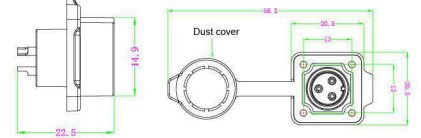
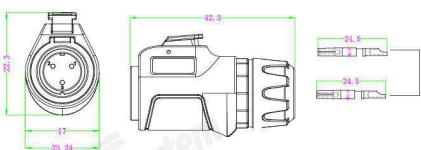
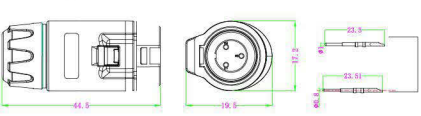
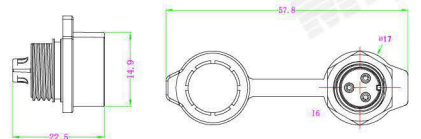
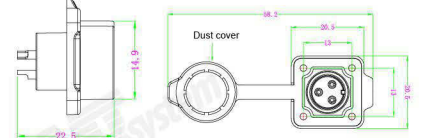
K Series waterproof connector naming rules



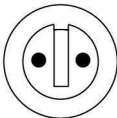
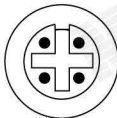
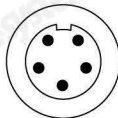
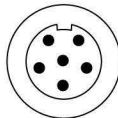
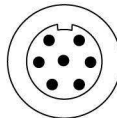
K Series waterproof socket naming rules

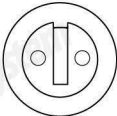
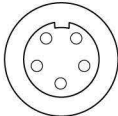
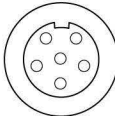
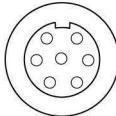
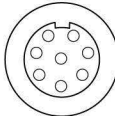


K12 Series

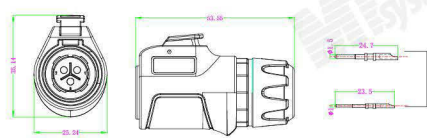
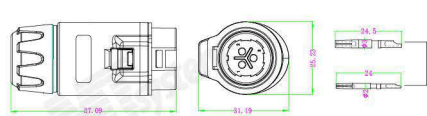
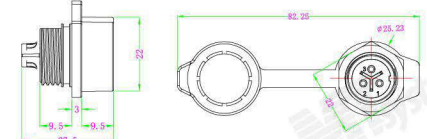
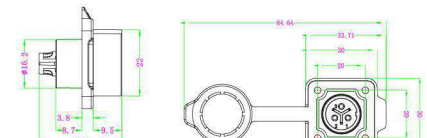
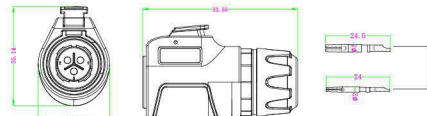
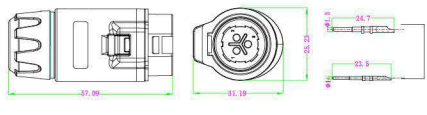
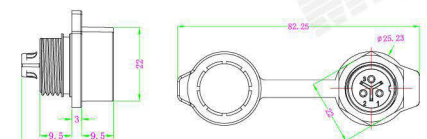
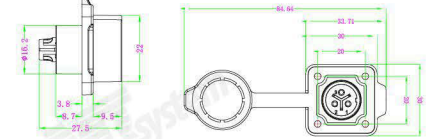
Product picture	Part No./Model No.	Dimensions
	K12 male self-locking waterproof connector K12-M- Pin No. Pin No. 2 3 4 5 6 7 8 Model No.:RGK12001	
	K12 female self-locking waterproof connector K12-F- -N Pin No. Pin No. 2 3 4 5 6 7 8 Model No.:RGK12002	
	K12 female waterproof round socket K12-F- -R Pin No. Pin No. 2 3 4 5 6 7 8 Model No.:RGK12003	
	K12 female waterproof square socket K12-F- -S Pin No. Pin No. 2 3 4 5 6 7 8 Model No.:RGK12004	
	K12 female self-locking waterproof connector K12-F- Pin No. Pin No. 2 3 4 5 6 7 8 Model No.:RGK12005	
	K12 male self-locking waterproof connector K12-M- -N Pin No. Pin No. 2 3 4 5 6 7 8 Model No.:RGK12006	
	K12 male waterproof round socket K12-M- -R Pin No. Pin No. 2 3 4 5 6 7 8 Model No.:RGK12007	
	K12 male waterproof square socket K12-M- -S Pin No. Pin No. 2 3 4 5 6 7 8 Model No.:RGK12008	

Technical Date (K12)

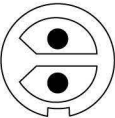
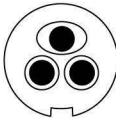
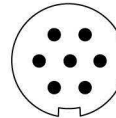
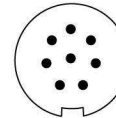
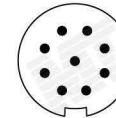
Pin No.	2	3	4	5	6	7	8
Pin for reference							
Cable AWG	0.3-0.5mm² / 22-20AWG				0.2-0.3mm² / 24-22AWG		
Cable OD	Ø3mm ~ Ø6mm						
Rated current	5A				3A		
Rated voltage	250V				200V		
Contact resistance	≤5mΩ				≤10mΩ		
Voltage resistance (AC.V)	1500V/min						
Insulation resistance	≤500mΩ						
Operating 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						

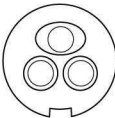
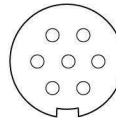
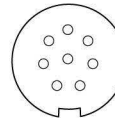
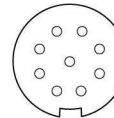
Pin No.	2	3	4	5	6	7	8
Pin for reference							
Cable AWG	0.3-0.5mm² / 22-20AWG				0.2-0.3mm² / 24-22AWG		
Cable OD	Ø3mm ~ Ø6mm						
Rated current	5A				3A		
Rated voltage	250V				200V		
Contact resistance	≤5mΩ				≤10mΩ		
Voltage resistance (AC.V)	1500V/min						
Insulation resistance	≤500mΩ						
Operating 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

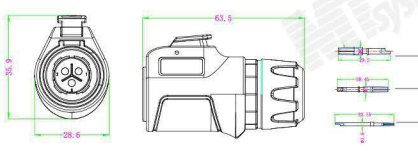
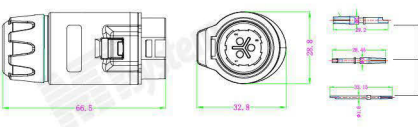
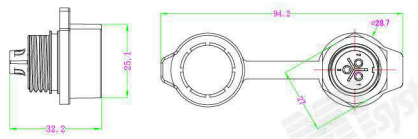
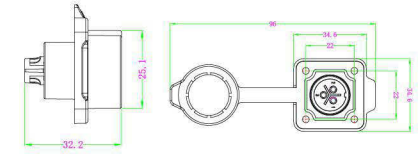
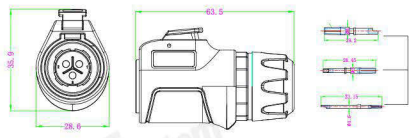
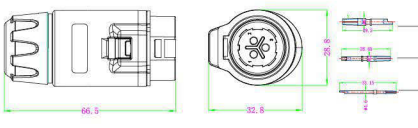
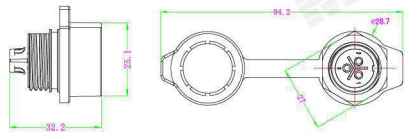
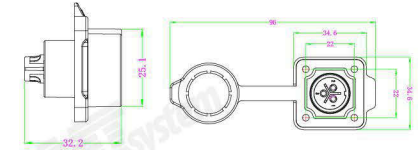
Product picture	Part No./Model No.	Dimensions
	K16 male self-locking waterproof connector K16-M- Pin No. Pin No. 2 3 4 5 7 8 9 Model No.:RGK16001	
	K16 female self-locking waterproof connector K16-F- -N Pin No. Pin No. 2 3 4 5 7 8 9 Model No.:RGK16002	
	K16 female waterproof round socket K16-F- -R Pin No. Pin No. 2 3 4 5 7 8 9 Model No.:RGK16003	
	K16 female waterproof square socket K16-F- -S Pin No. Pin No. 2 3 4 5 7 8 9 Model No.:RGK16004	
	K16 female self-locking waterproof connector K16-F- Pin No. Pin No. 2 3 4 5 7 8 9 Model No.:RGK16005	
	K16 male self-locking waterproof connector K16-M- -N Pin No. Pin No. 2 3 4 5 7 8 9 Model No.:RGK16006	
	K16 male waterproof round socket K16-M- -R Pin No. Pin No. 2 3 4 5 7 8 9 Model No.:RGK16007	
	K16 male waterproof square socket K16-M- -S Pin No. Pin No. 2 3 4 5 7 8 9 Model No.:RGK16008	

Technical Data (K16)

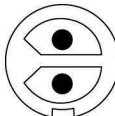
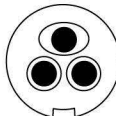
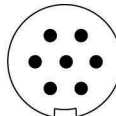
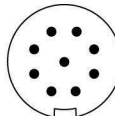
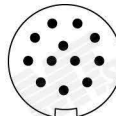
Pin No.	2	3	4	5	7	8	9
Pin for reference							
Cable AWG	1.0-1.5mm ² / 18-16AWG				0.3-0.5mm ² / 22-20AWG		
Cable OD	Ø3mm ~ Ø9mm						
Rated current	10A				5A		
Rated voltage	500V				250V		
Contact resistance	≤2.5mΩ				≤5mΩ		
Voltage resistance (AC.V)	2500V/min				1500V/min		
Insulation resistance	≤500mΩ						
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						

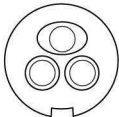
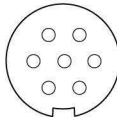
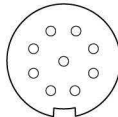
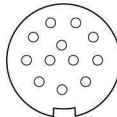
Pin No.	2	3	4	5	7	8	9
Pin for reference							
Cable AWG	1.0-1.5mm² / 18-16AWG				0.3-0.5mm² / 22-20AWG		
Cable OD	Ø3mm ~ Ø9mm						
Rated current	10A				5A		
Rated voltage	500V				250V		
Contact resistance	≤2.5mΩ				≤5mΩ		
Voltage resistance (AC.V)	2500V/min				1500V/min		
Insulation resistance	≤500mΩ						
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

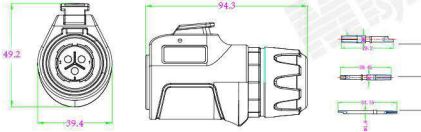
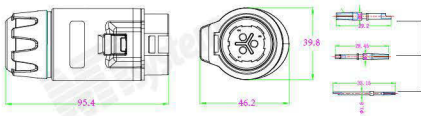
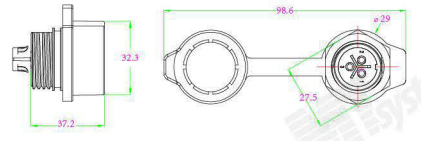
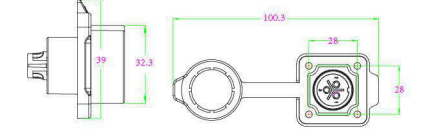
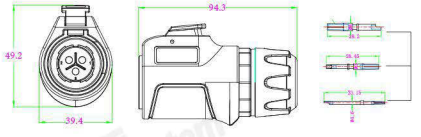
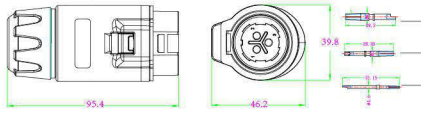
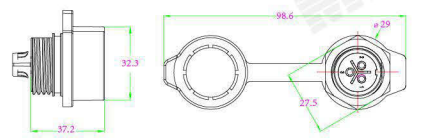
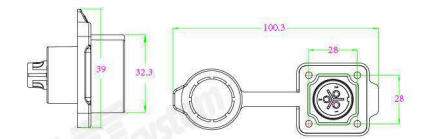
Product picture	Part No./Model No.	Dimensions
	K20 male self-locking waterproof connector K20-M- Pin No. Pin No. 2 3 4 5 7 9 12 Model No.:RGK20001	
	K20 female waterproof butt plug K20-F- -N Pin No. Pin No. 2 3 4 5 7 9 12 Model No.:RGK20002	
	K20 female waterproof round socket K20-F- -R Pin No. Pin No. 2 3 4 5 7 9 12 Model No.:RGK20003	
	K20 female waterproof square socket K20-F- -S Pin No. Pin No. 2 3 4 5 7 9 12 Model No.:RGK20004	
	K20 female self-locking waterproof connector K20-F- Pin No. Pin No. 2 3 4 5 7 9 12 Model No.:RGK20005	
	K20 male waterproof butt plug K20-M- -N Pin No. Pin No. 2 3 4 5 7 9 12 Model No.:RGK20006	
	K20 male waterproof round socket K20-M- -R Pin No. Pin No. 2 3 4 5 7 9 12 Model No.:RGK20007	
	K20 male waterproof square socket K20-M- -S Pin No. Pin No. 2 3 4 5 7 9 12 Model No.:RGK20008	

Technical Date (K20)

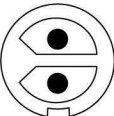
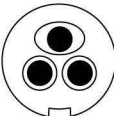
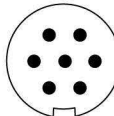
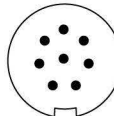
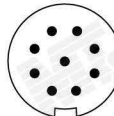
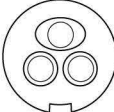
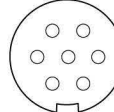
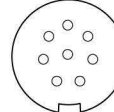
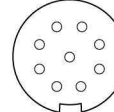
Pin No.	2	3	4	5	7	9	12
Pin for reference							
Cable AWG	2.5-4.0mm ² / 14-12AWG			1.0-1.5mm ² / 18-16AWG		0.3-0.5mm ² / 22-20AWG	
Cable OD	Ø9mm ~ Ø13mm			Ø7mm ~ Ø10mm			
Rated current	25A			12A		5A	
Rated voltage	500V			250V		200V	
Contact resistance	≤1.0mΩ			≤2.5mΩ		≤5mΩ	
Voltage resistance (AC.V)	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						

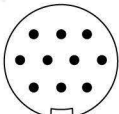
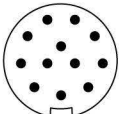
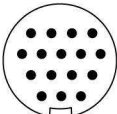
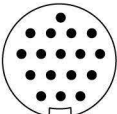
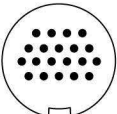
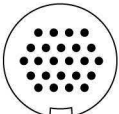
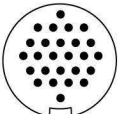
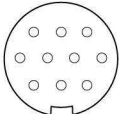
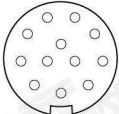
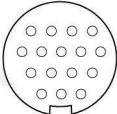
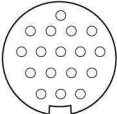
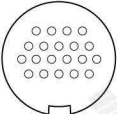
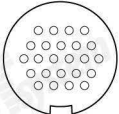
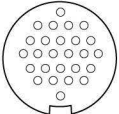
Pin No.	2	3	4	5	7	9	12
Pin for reference							
Cable AWG	2.5-4.0mm ² / 14-12AWG			1.0-1.5mm ² / 18-16AWG		0.3-0.5mm ² / 22-20AWG	
Cable OD	ø9mm ~ ø13mm			ø7mm ~ ø10mm			
Rated current	25A			12A		5A	
Rated voltage	500V			250V		200V	
Contact resistance	≤1.0mΩ			≤2.5mΩ		≤5mΩ	
Voltage resistance (AC.V)	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- Pin No. <table><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- -N Pin No. <table><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																	
	K28 female waterproof round socket K28-F- -R Pin No. <table><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.:RGK28003	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 waterproof square socket K28-F- -S Pin No. <table><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.:RGK28004	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- Pin No. <table><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.:RGK28005	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 male self-locking waterproof connector K28-M- -N Pin No. <table><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.:RGK28006	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 male waterproof round socket K28-M- -R Pin No. <table><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.:RGK28007	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 male waterproof square socket K28-M- -S Pin No. <table><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.:RGK28008	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																	

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℃~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	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℃~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	20.5N.M						