



Depot Power Connector

Product Description 2020 Edition



Zhejiang Yonggui Electric Equipment Co.,Ltd.

Yonggui Connector Connector Expert

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Depot Power Connector

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Depot Power Connector

Brief description of function:

The depot power connector, also called external power connector, is a connector for accessing ground power for the train when rolling stock is in the depot for maintenance and when power cannot be obtained. The socket is installed on the vehicle, the plug is connected to the ground power supply, and the plug is inserted to supply power after the vehicle enters the depot. The depot power connector can be added with functions such as control contacts, electromagnetic locking, safety protection or status display according to customer requirements.




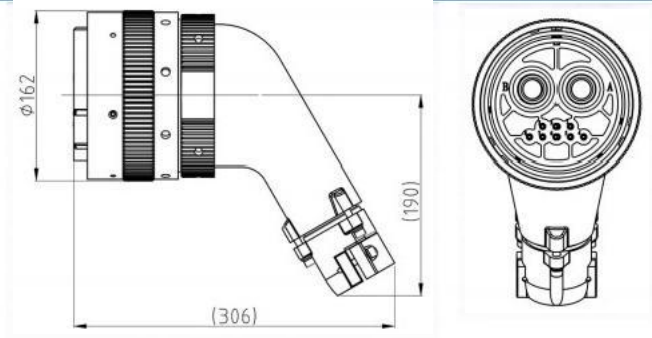

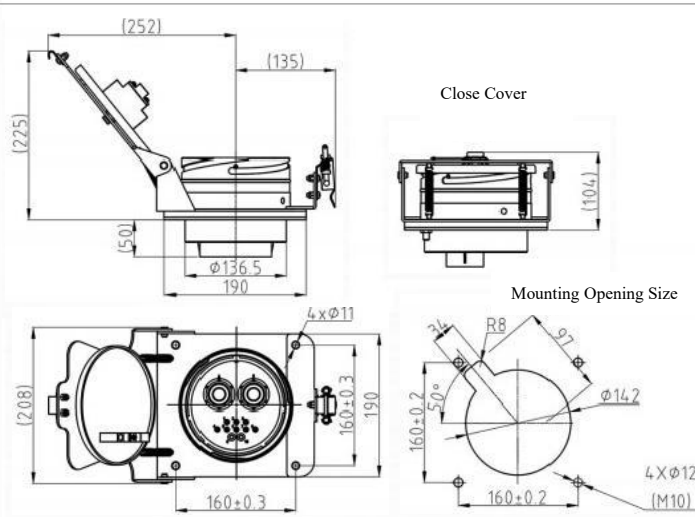

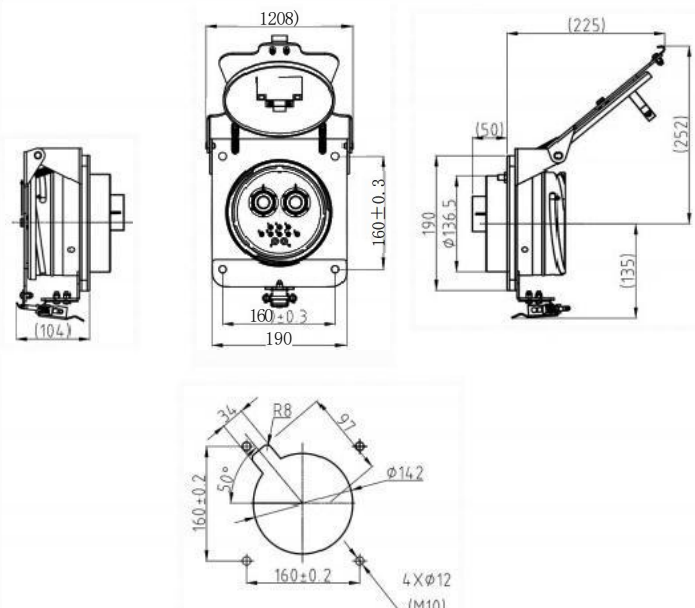
1Summary of Depot Power Connector

Overview of Product Models and Main Performance Parameters:

S.N.	Model No.	No. of Cores	Operating Voltage	Operating Current	Wiring Specification (mm ²) Termination Method	Plug Outlet	Socket Mounting Method
1	YGC587	Power pin: 2 Signal pin: 8 Auxiliary pin: 2 (socket, open cover protection)	Power Pin: 1500V DC. Signal pin: 110V DC	Power pin: 530A; Signal pin: 23A	Power pin (copper tube terminal): max240 thread Signal pin: 1 to 1.5 cold press	Max:φ40 (cable)	Cabinet
2	YGC665	Power pin: 1 Signal pin: 2	Power Pin: 1500V DC. Signal pin: 110V DC	Power pin: 400A; Signal pin: 13A	Power pin: 35~185 cold press Signal pin: 0.5~2.5 cold press	Different tail outlet structures; Cables or loose wires.	Cabinet
3	YGC675	Power pin: 4 Signal pin: 6 Auxiliary Pin: 2 (socket signal pin, open cover protection)	Power Pin: 500V AC Signal pin: 110V DC	Power pin: 450A; Signal pin: 15A	Socket power pin (copper tube terminal). max150 thread Plug power pin: max150 Cold press Signal pin: 1 to 2.5 Cold press	Loose wire	Vehicle lifting, cabinet
4	YGC726	Power pin: 1 Signal pin: 7 (open cover protection 2)	Power Pin: 1500V DC. Signal pin: 110V DC	Power pin: 400A; Signal pin: 5A	Power pin (copper tube terminal):max185 thread Signal pin (copper tube terminal): 1 to 2.5 thread	φ35~φ38.5(Cable)	Cabinet
5	YGC918	Power pin: 3 Signal pin: 3	Power Pin: 1750V AC. Signal pin: 200V DC	Power pin: 350A; Signal pin: 23A	Power pin: max 120 Cold press Signal pin: 2.5 Cold press	Different tail outlet structures; Cables or loose wires.	Cabinet
	YGC918A	Power pin: 1 Signal pin: 7	Power Pin: 750V DC. Signal pin: 380V AC	Power pin: 400A; Signal pin: 13A	Power pin: max 150 Cold press Signal pin: 1.5 Cold press	Different tail outlet structure; cables or loose wires.	Cabinet
6	YGC961	Power Pin: 4 Signal pin: 2	Power Pin: 1000V AC. Signal pin: 220V AC	Power pin: 400A; Signal pin: 20A	Power pin: 70 to 240 threads Signal pin: 4 to 6 threads	Different tail outlet structure; cables or loose wires.	Cabinet

2 YGC587-Depot Connector

1 Model Number and Size:

Model Number	Graphic Display	Product Size
Plug: YGC587-S(2+2+8)P	 <p>Plug</p>	
Socket: YGC587-P(2+2+8)R	 <p>Socket (top and bottom cover)</p>	
Sockets: YGC587-P(2+2+8)R	 <p>Socket (left and right cover)</p>	

*Note: Due to differences in appearance, configuration, wiring specifications, installation methods , products are differentiated by adding suffix letters and numbers to the main name and model number.

2 Product Model and Code				
① Plug:			② Socket:	
Model Number	Code	Appearance	Model Number	C
YGC587-S(2+2+8)P plug	112030100709	RAL7026 (granite gray)	YGC587-P(2+2+8)R Socket	1
YGC587-S(2+2+8)PB plug	112030103176	RAL7021 (black gray)	YGC587-P(2+2+8)RB Socket	1
YGC587-S(2+2+8)PD Plug	112030103381	RAL7031 (blue-gray)	YGC587-P(2+2+8)RD Socket	1
YGC587-S(2+2+8)PG Plug	112030103691	RAL7012 (basalt lime)	YGC587-P(2+2+8)RG Socket	1
			YGC587-P(2+2+8)RK Socket	1




3 Performance Parameters:

① Performance Indicators: ②: Materials and Surface Treatment of Main Parts

Operating Temperature	-50℃~+125℃	Relative Humidity	≤95%	Part Name	Materials	Surface Treatment
Rated voltage	Power pin: 1500v dc Signal pin: 110v dc	Rated current (max)	Power pin-530a Signal pin-23a	Housing	Aluminum Alloy	Spray paint
				Mounting plate	Flame retardant reinforced engineering plastics	
Withstand voltage	Power pin: 7000v (50/60 Hz AC) Signal pin: 1500v (50/60 Hz AC)	Electrical insulation resistance	≥5000mΩ	Contacts-power pin	Copper alloy	Silver-plated
		Contact resistance	Power pin≤0.2mΩ Signal pin ≤ 3mΩ	Contacts-signal pin	Copper alloy	Gold-plated
Contact logarithm	Power pin-2 Signal pin-8 Auxiliary pin (open cover protection): 2	Vibration shock	GB/T215631 class B (socket)	Structural components, fasteners	Stainless steels	Passivation
				Seals	Silicone rubber	
Protection class	IP66-socket IP54-plug, socket insert	Salt spray resistance				
Mechanical life	>750 times	Wiring specification(mm² and Termination Type	Power pin (copper tube terminal): max240 bolt Signal pin: 1 to 1.5 cold press			
Flame Retardant Grade	EN45545-2 R22&R23					


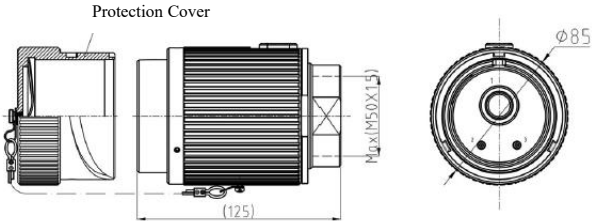

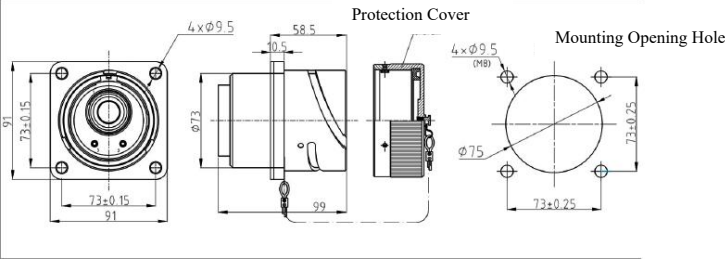
4 Accessories and Specialized Tools:

①Accessories: Plug protection cover (optional) ②Specialized tools (ordered separately)

Order No.: 113990000092			Name	Model Number	Order No.	Reference Photos
			Socket Power Pin Pin Retractor	RTSCB-02	113030400125	
			Socket Signal Pin Pin Retractor	RT-2	114030300292	
			Plug and Socket Locking Wrench	YG587-CTDCBS	499000000237	
			Plug Assembly Connection Nut Wrench	YG587-LJLMBS	499000000241	

3 YGC665-Electrical Connectors

1 Model Number and Size:

Model Number	Graphic Display	Product Size
Plug: YGC665-C400-P3P	 Plug	
Socket: YGC665-C400-S3R	 Socket	

*Note: due to differences in appearance, configuration, wiring specifications, etc., products are differentiated by by adding a suffix letter after the main name and model number.

2 Model Number and Code:

① Plug:

Model Number	Code	Appearance	Other
YGC665-C400-P3P Plug	112030102431	Oxidized, black	Power Pin 120 Flat, with cover, with M40 AJ Connector
YGC665-C400-P3P Plug	112030103316	Oxidized, black	Power Pin 95 Flat, with cover, with M40 AJ Connector

② Socket:

Model Number	Code	Appearance	Other
YGC665-C400-S3R Socket	112040102540	Oxidized, black	Power pin 120 Flat, without cover
YGC665-C400-S3RA Socket	112040104447	Oxidized, black	Power pin 95 Flat, with cover
YGC665-C400-S3RB Socket	112040104276	Oxidized, black	Power pin 120 flat, with cover

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Depot Power Connector

3 YGC665-Electrical Connectors

3 Performance Parameters:

①Performance Indicators:				②Materials used for main parts and surface treatment:		
Operating Temperature Rated Voltage	-40°C~+125°C	Relative Humidity	≤95%	Part Name	Material	Surface Treatment
	Power pin: 1500V DC Signal pin: 110V DC	Rated Current (Max)	Power Pin-400A Signal Pin-13A	Housing	Aluminum Alloy	Oxidized
Voltage resistance Contact logarithm Protection class	Power pin: 5400V (50/60 Hz AC) Signal pin: 1500V (50/60 Hz AC)	Electrical Insulation Resistance	≥5000M Q	Mounting Plate	Flame retardant reinforced engineering plastics	
	Power Pin-1 Signal pin-2	Contact Resistance	Power pin ≤0.1mQ Signal pin ≤1.5mΩ	Contact	Copper alloy	Silver-plated
	IP67	Vibration Shock	GB/T 215631 Class B	Seal	Silicone rubber	
Mechanical life	>3000 times	Salt Spray Resistance				
Flame Retardant Grade	EN45545-2 R22&R23	Wire Specification (mm²) and Termination Type	Power pin: 35 to 185 Cold Pressure Signal pin: 0.5 to 2.5 cold press			


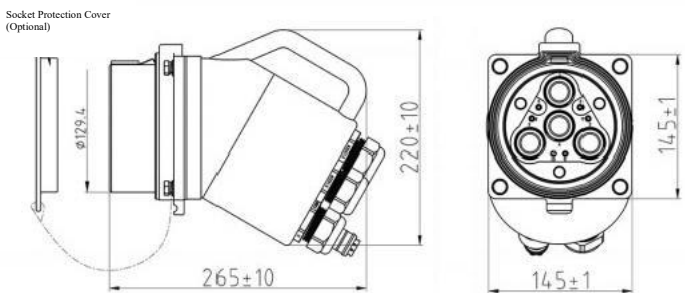

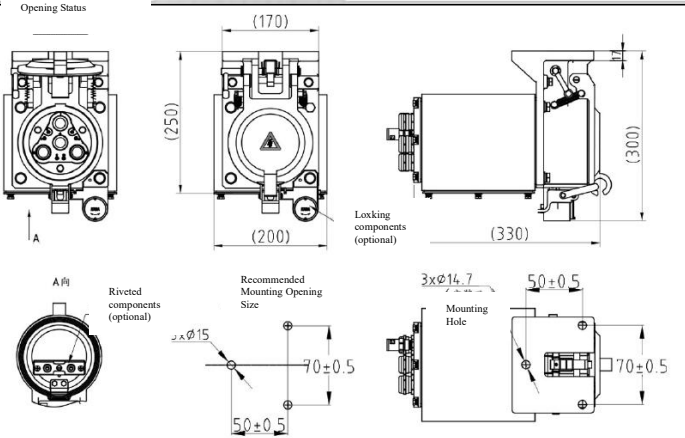

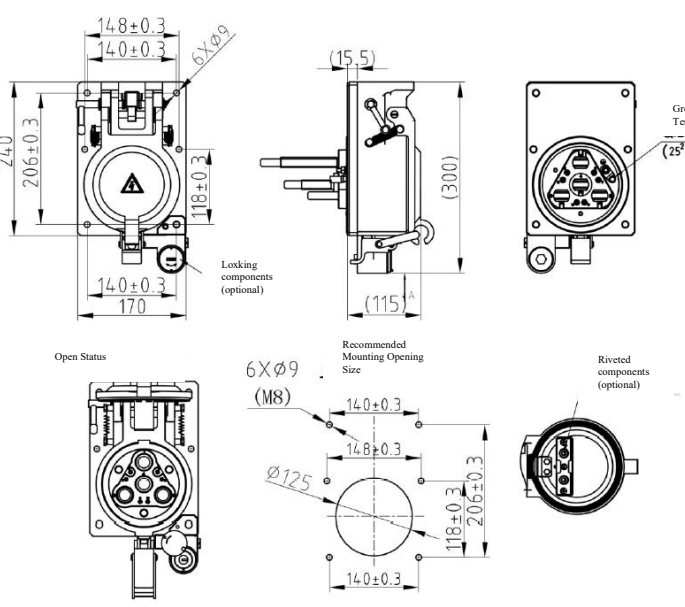
4 Accessories and Specialized Tools:

Specialized tools (ordered separately)

Name	Model Number	Catalog number	Reference Photo
Plug, Socket Power Pin Retractor	RTSCB-03	113030400061	
Plug Signal Pin Pin Retractor	RT-3	113030400018	
Socket Signal Pin Pin Retractor	RT-2	114030300292	

4 YGC675-Depot Electrical Connector

1 Model Number and Size:

Model No.	Graphic Display	Product Size
Plug: YGC675-S(4+6)P	 <p>Plug</p>	
Socket: YGC675-P(4+6)R	 <p>Socket (lifting)</p>	
Socket: YGC675-P(4+6)R	 <p>Socket (cabinet mounted)</p>	

*Note: Due to differences in appearance, configuration, wiring specifications, installation methods, products are differentiated by adding suffix letters and numbers to the main name and model number.

※Note: ①The interlocking assembly has a built-in KABA thread lock, which can only be unlocked with a specific key to open the socket cover for operation. If you need to configure, you need to check the KABA thread lock number.

※Note: ②Shorting assembly function: When the cover is opened for protection and closed, signal pin # and #6 are shorted by the shorting assembly. This function can be configured if required.

4 YGC675-Depot Electrical Connector

2 Performance Parameters:

① Performance indicators:

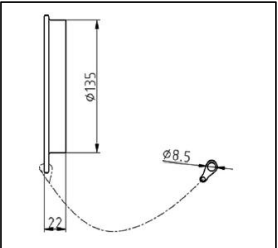
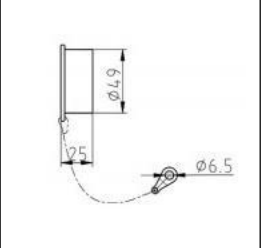



Operating Temperature	-50°C~+125°C	Relative Humidity	≤95%
Rated Voltage	Power pin: 500V AC Control pin: 110V AC	Rated current (Max)	Power Pin-450A Control pin-15A
Withstand Voltage	Power pin: 3000V (50/60 Hz AC) Signal pin: 1500V (50/60 Hz AC)	Electrical Insulation Resistance	≥5000M Q
		Contact Resistance	Power pin ≤ 0.2mΩ Signal pin ≤ 0.9mQ
Contact logarithm	Power Pin-4 Signal pin-6	Vibration Shock	GB/T 215631 Class B (socket)
		Salt Spray Resistance	>96H
Protection Class	IP67-Socket IP54-plug and socket insertion	Wire Specification (mm²) and Termination Type	Socket power pin (copper tube terminals): max150 thread Plug power pin: max150 cold press Signal pin: 1.0 to 2.5 cold press
Mechanical Life	>3000 times		
Flame Retardant Grade	En45545-2 R22&R23		

② Materials used for main parts and surface treatment:

Part Name	Materials	Surface Treatment
Housing	Aluminum alloy	Spray paint
Mounting plate	Thermoset Engineering Plastics	
Contact	Copper alloy	Silver-plated
Locking part	Stainless steel	Passivation
Seal	Silicone rubber, EPDM rubber	


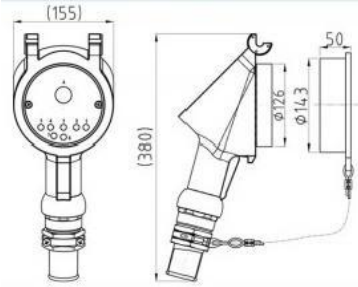

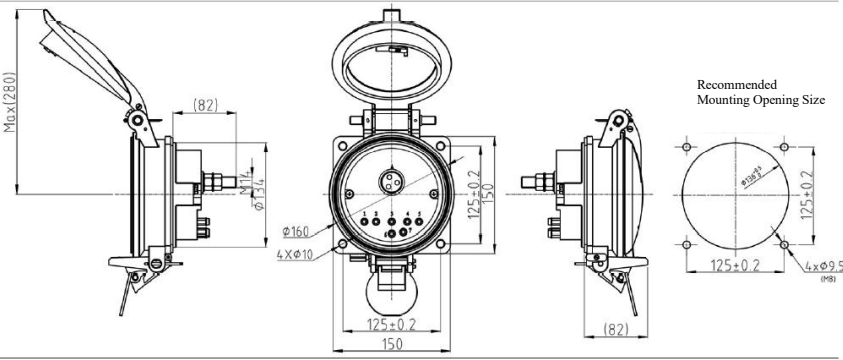
3 Accessories and Specialized Tools:

①Accessories: Plug cover (ordered separately) Order No.: 113069800356

Order No.: 113069800358	Order No.: 113069800356	Name	Model Number	Order No.	Reference Photos
		Signal Pin Retractor	RTSCA-05	532031200112	
		Signal Pin Feeder		532990000692	
		Plug Power Pin Retractor	RTSCB-36	532031200046	

5YGC726-Depot Connector

1 Model Number and Size:

Model Number	Graphic Display	Product Size
Plug: YGC726-D(1+7)P	 Plug	
Socket: YGC726-D(1+7)R	 Socket	

*Note: Due to differences in appearance, configuration, , products are differentiated by adding suffix letters and numbers to the main name and model number.

2 Model Number and Code:

Model Number and Code:		
Model Number	Code	Appearance
YGC726-D(1+7)P plug	112030101691	RAL7031 (blue-gray)
YGC726-D(1+7)RB Socket	112040103043	RAL7031 (blue-gray)

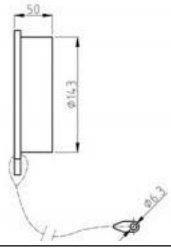
5 YGC726-Depot Connector

3 Performance Parameters:

① Performance Indicators:				② Materials used for main parts and Surface Treatment:		
Operating Temperature Rated Voltage	-40℃~+125℃	Relative Humidity	≤95%	Part Name	Materials	Surface Treatment
	Power pin: 1500V DC Signal pin: 110V DC	Rated current (Max)	Power Pin-400A Signal Pin-5A	Housing	Aluminum alloy	Spray paint
Withstand Voltage	Power pin: 6000V (50/60 Hz AC) Signal pin: 2500V (50/60 Hz AC)	Electrical Insulation Resistance	≥5000M Ω	Mounting plate	Thermoset Engineering Plastics	
		Contact Resistance	Power pin ≤ 0.2mΩ Signal pin ≤ 8mΩ	Contact	Copper alloy	Silver-plated
Contact logarithm	Power Pin-1 Signal pin-7 (open cover protection 2)	Vibration Shock	GB/T 215631 Class B (socket)	Structural components, fasteners	Stainless steel	Passivation
				Locking part	Brass	Passivation
Protection Class	IP67-Socket IP54-Plug, socket insertion	Salt Spray Resistance	>96H	Seal	Silicone rubber	
Mechanical Life	>750 times	Wiring size(mm²) and Termination Type	Power pin (steel tube terminal): max185 Signal pin (copper tube terminal). 1~2.5 thread			
Flame Retardant Grade	EN45545-2 R22&R23					


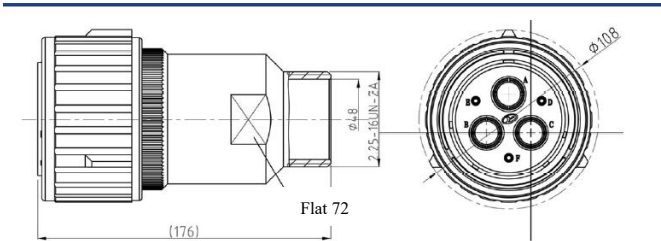

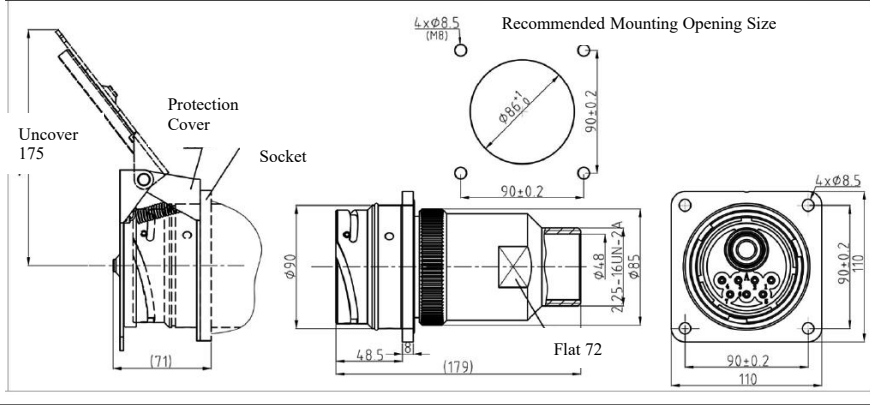
4 Accessories and Specialized Tools:

Accessories: Plug protection cover (optional)

Order No.: 113990000405	

6 YGC918-Depot Connector

1 Model Number and Size:

Model Number Graphic Display Product Size		
Plug: YGC918-S(3+3)P	 Plug	
Socket: YGC918-P(3+3)R	 Socket	

*Note: Due to differences in appearance, wiring specification, products are differentiated by adding suffix letters and numbers to the main name and model number.

2 Model Number and Code:

Model and code:

Model Number	Code	Appearance	Other
YGC918-S(3+3)P plug	112030101985	Oxidized, black	3-φ14 power pin 70 square 3-φ2.4 signal pin 2.5 square
YGC918-P(3+3)R Socket	112040102104	Oxidized, black	3-Medium 14 Power pin 50 square 3-φ2.4 signal pin 2.5 square with protective cover

6 YGC918-Depot Connector

3 Performance Parameters:

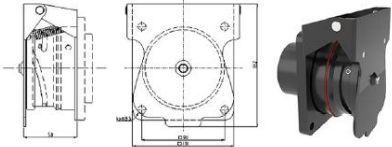




① Performance indicators:

Operating Temperature Rated Voltage	-40℃~+125℃	Relative Humidity	≤95%
	Power Pin: 1750V AC Control pin: 200V DC	Rated current (Max)	Power Pin-350A Control pin-23A
Withstand Voltage Contact logarithm	Power Pin: 4500V (50/60 Hz AC) Signal pin: 2500V (50/60 Hz AC)	Electrical Insulation Resistance	≥5000M Q
	Power Pin-3 Signal pin-3	Contact Resistance	Power pin ≤ 0.1mQ Signal pin ≤ 3mΩ
Protection Class	IP65	Vibration Shock	GB/T 215631 Class B
Mechanical Life	>750 times	Salt Spray Resistance	>96H
Flame Retardant Grade	EN45545-2 R22&R23	Wiring Size (mm²) and Termination Type	Power pin: max120 cold press Signal pin: 2.5 Cold press

②Materials used for main parts and Surface Treatment:


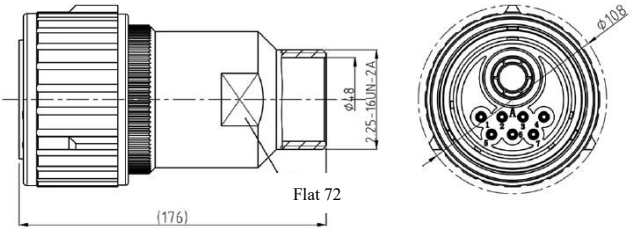

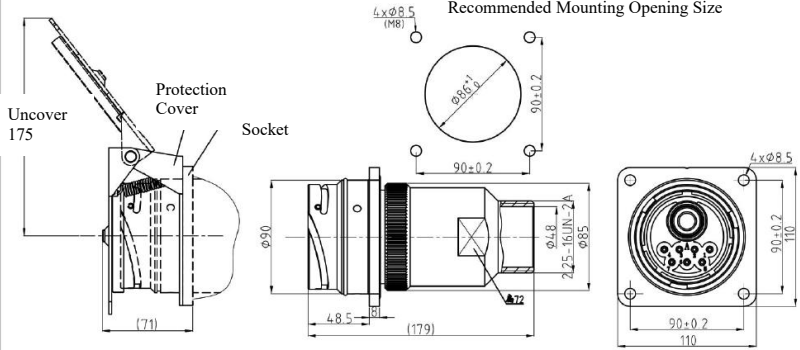
Part Name	Materials	Surface Treatment
Housing	Aluminum alloy	Oxidized
Mounting plate	Thermoset Engineering Plastics	
Power pin	Copper alloy	Silver-plated
Signal pin	Copper alloy	Gold-silver-plated
Seal	Silicone rubber	

4 Accessories and Specialized Tools:

①Accessories: Socket protection cover (optional)	②Plastic dust cover (optional)	③Specialized tools (ordered separately)			
Order No.: 113039800565	Plugs: order number 114069801994	Name	Model Number	Order No.	Reference Photos
		Pins Pin Retractor	RTSCB-02	113030400125	
		Plug Signal Pin Pin Returner	RT-2	113030400017	
		Socket Signal Pin Pin Returner	RTSGA-04	113030400113	

7 YGC918A-Depot Connector

1 Model Number and Size:

Model Number	Graphic Display	Product Size
Plug: YGC918-S(1+7)PA	 Plug	
Socket: YGC918-P(1+7)RA	 Socket	

*Note: Due to differences in appearance, configuration, wiring specifications , products are differentiated by adding suffix letters and numbers to the main name and model number.

2 Model Number and Code:

① Performance indicators:			
Model Number	Code	Appearance	Other
YGC918-S(1+7)PA Plug	112030103052	Oxidized, black	1-φ15 power pin 150 square 7-φ2.4 signal pin 1.5 square
YGC918-P(1+7)RA Socket	112040103063	Oxidized, black	1-φ15 power pin 150 square 7-φ2.4 signal pin 1.5 square with protective cover

7 YGC918A-Depot Connector

3 Performance parameters:

① Performance indicators:				② Materials used for main parts and Surface Treatment:		
Operating Temperature	-40℃~+125℃	Relative Humidity	≤95%	Part Name Material Surface Finish		
Rated Voltage	Power Pin: 750V DC	Rated current (Max)	Power Pin-350A	Housing	Aluminum alloy	Oxidized
	Control pin: 380V AC		Control pin-13A	Mounting plate	Thermoset Engineering Plastics	
Withstand Voltage	Power Pin: 4500V (50/60 Hz AC)	Electrical Insulation Resistance	≥5000MΩ	Contacts-power pin	Copper alloy	Silver-plated
	Signal pin: 2500V (50/60 Hz AC)			Contacts-Signal pin	Copper alloy	Gold-silver-plated
Contact Logarithm	Power Pin-1	Contact Resistance	Power pin ≤ 0.1mQ	Seal	Silicone rubber	
	Signal pin-7		Signal pin ≤ 3mQ			
Protection class Mechanical life	IP65	Vibration Shock	GB/T 215631 Class B			
	>750 times	Salt Spray Resistance	>96H			
Flame retardant Grade	EN45545-2 R22&R23	Wiring Size (mm²) and Termination Type	Power pin: max150 cold press Signal pin: 1.5 cold press			

4 Accessories and Specialized Tools:

① Accessories: Socket protection cover (optional)

Order No.: 113039800565



② Plastic dust cover (optional)

Plug: order number 114069801994


Socket: order number 114069801946



③ Specialized tools (ordered separately)


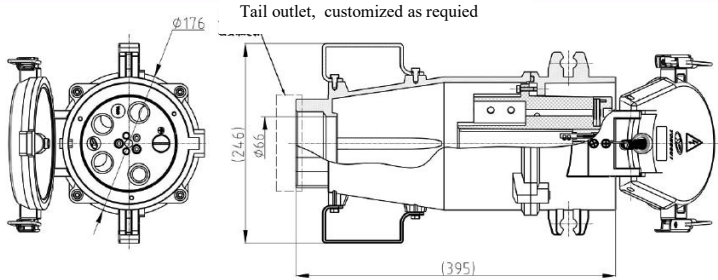

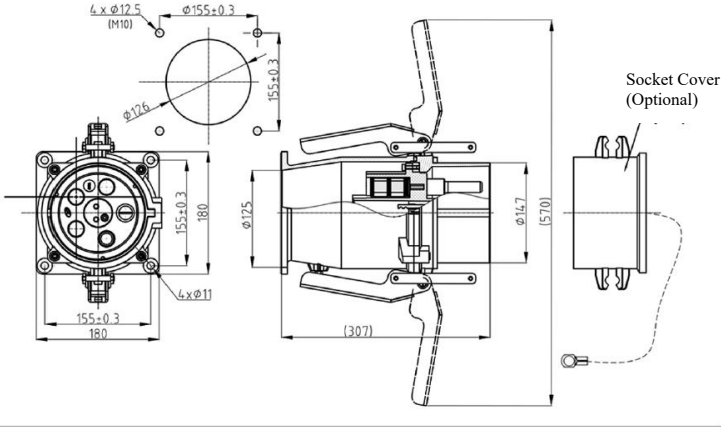
Name	Model Number	Order No.
Power Pin Retractor	RTSCB-52	114030300231
Plug Signal Pin Retractor	RT-2	113030400017
Socket Signal Pin Returner	RTSCA-04	113030400113

Reference Photos



8 YGC961-Depot Electrical Connector

1 Model Number and Size:

Model Number	Graphic Display	Product Size
Plug: YGC961-S(4+2)P	 Plug	
Socket: YGC961-P(4+2)R	 Socket	

*Note: Due to differences in appearance, configuration, and wiring outlet, products are differentiated by adding suffix letters and numbers after the main Model Number.

2 Model Number and Code:

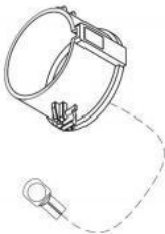
Model Number and Code:		
Model Number	Code	
YGC961-S(4+2)P Plug	112030102937	
YGC961-P(4+2)R Socket	112040102979	

8 YGC961-Depot Electrical Connector

3 Performance parameters:

① Performance indicators:				② Materials used for main parts and Surface Treatment:		
Operating Temperature	-40℃~+125℃	Relative Humidity	≤95%	Part Name	Materials	Surface Treatment
Rated Voltage	Power pin: 1000V AC	Rated current (Max)	Power Pin-400A	Housing	Aluminum alloy	Oxidized
	Control pin: 220V AC		Control pin-20A	Mounting plate	Thermoset Engineering Plastics	
Voltage	Power Pin: 4500V (50/60 Hz AC)	Electrical Insulation Resistance	≥2000MΩ	Contact	Copper alloy	Silver-plated
	Signal pin: 2500V (50/60 Hz AC)			Locking part	Stainless steels	passivation
Contact logarithm	Power Pin-4 Signal pin-2	Contact Resistance	Power pin ≤ 0.1mΩ Signal pin ≤ 0.5mQ	Seal	Silicone rubber	
Protection Class	IP67-Socket (with cover) IP67-plug and socket Insertion	Vibration Shock	GB/T 215631 Class B			
		Salt Spray Resistance	>96H			
Mechanical Life	>1500 times	Wire Specification (mm²) and Termination Type	Power pin: 70 to 240 thread			
Flame Retardant Grade	EN45545-2 R22&R23		Signal pin: 4 to 6 thread			

4 Accessories and Specialized Tools:

① Accessory: Socket protection cover (optional)	
Order No.: 113011600815	
	

Yungui Connector Connector Expert



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