



QLE FAST LOCK SERIES CONNECTOR

Product Description 2020 Edition



Zhejiang Yonggui Electric Equipment Co., Ltd.

Yonggui Connector Connector Expert

[HTTP://WWW.YONGGUI-SC.COM/](http://www.yonggui-sc.com/)

Company Profile

Zhejiang Yonggui Electric Equipment Co., Ltd. is a national high-tech enterprise focusing on the development, manufacturing, sales and technical support of rail transit equipment manufacturing industry, electrical connectors, connector components and precision electronic products. Founded in 1973, it was listed in Shenzhen Stock Exchange in September, 2012 (Securities Abbreviation: Yonggui Electric, stock code: 300351). Currently, the Company has 3 wholly-owned subsidiaries, 9 holding subsidiaries with over 2000 employees and has set up production bases and R & D centers in Zhejiang, Sichuan, Beijing, Shenzhen, Jiangsu and Chongqing.

Starting from rail transit connectors, the Company has taken the leading position in niche area of domestic rail transit connectors. It has formed a layout of seven major rail transit products including connectors, door system, shock absorbers, through passages, axle counting signaling system, pantograph and storage batteries, which are applied rolling stock, passenger vehicles, high speed trains, subway, maglev train and other vehicles and rail transit; it supplies supporting products for CRRC Group, China RAILWAY and city metro operating companies.

Since its listing in 2012, the Company focuses on main business, actively expands business layout and extensively apply its new energy connectors and wire harness assemblies to various new energy cars. It has entered into the supply chain system of BYD, Beijing Automobile, Dongfeng Automobile, Shanghai FAW-Volkswagen and Changan Auto; its energy information products are mainly applied to communication base station, various communication network equipment and energy storage equipment, consumer electronics and so on, supporting Huawei, ZTE, DT Mobile and Vertiv. In addition, the Company has seized the strategic opportunity of “Military-Civilian Integration”, developed all kinds of Military and Aerospace Products, supporting weapons and equipment like combat vehicles, radar, artillery, missiles, warplanes, ships of all types above and below the water developed by China's 11th Military Industry Group.



Production Capacity



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Zhejiang Yonggui Electric Equipment Co., Ltd.









<http://www.yonggui.com/>

Sichuan Yonggui Technology Co., Ltd.

四川永贵科技 <http://www.yonggui-sc.com/>

Product Introduction

1.4 Product Specification and Model

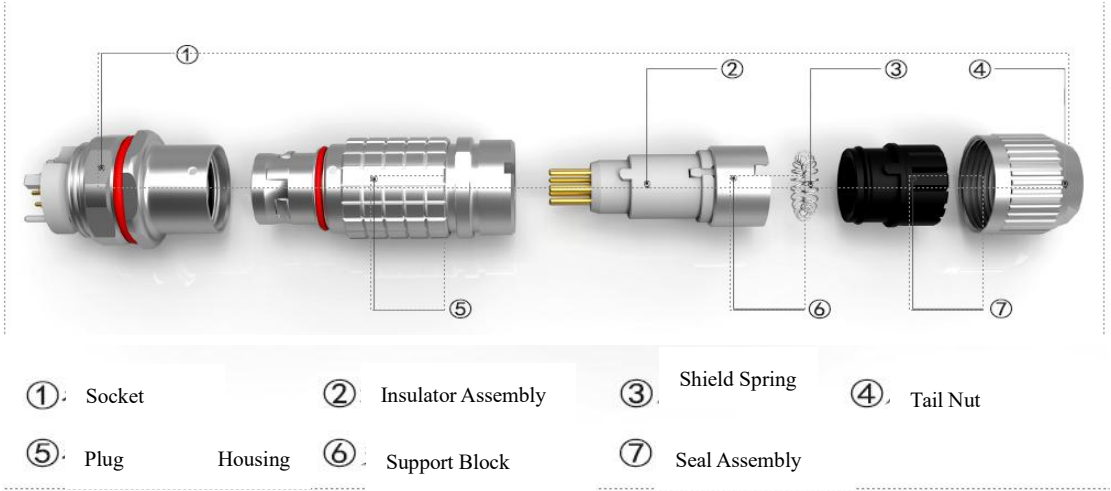
S.N.	Product Name	Mounting Method	Schematic	Category
1	Plug			Plug: Wire End Crimp Type
2	Straight Welding Board Socket	Front of board mounting		Socket: Board End, Separate
3	Straight Welding Board Socket	Back of board mounting		Socket: Board End, Separate
4	Bent Welding Board Socket	Front of board mounting		Socket: Board End, Separate
5	Bent Welding Board Socket	Back of board mounting		Socket: Board End, Separate
6	Prefabricated Wire Socket	Front of board mounting		Socket: Board End, Prewired Cables
7	Prefabricated Wire Socket	Back of board mounting		Socket: Board End, Prewired Cables
8	Straight Welding Board Socket	Back of board mounting		Socket: Board End, Integral

1.5 Technical Parameters

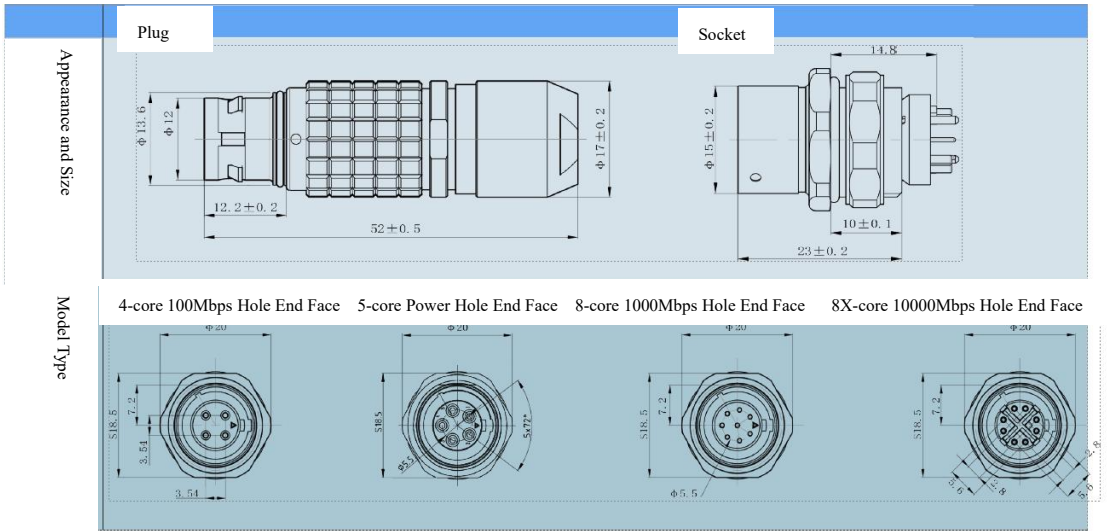
1. Electrical Property	2. Mechanical Property	3. Working Environment	4. Other Property
-Rated voltage: 4-core-250v 5-core-110v 8-core-30v 8X-core-48v -Rated Current: 4-core-4A 5-core-5A 8-core-2A 8X-core-0.5A -withstanding voltage: 4-core:AC1400V 5-core:AC1500V 8-core:AC650V 8X-core:AC500V	-Mechanical life:750times -Vibration: GB/T21563 Class 1 Level B	-Working Environment:-55°C~+125°C -Relative Humidity: 95% (at 40°C) -Protection Class:IP67	-Eco-friendly: Meet ROHS requirements -Flame retardant: EN45545 -Salt spray: 96h Applicable Cable specification: 5 9. 5 Meets GB/T 34119 standard.

1.6 Product Structure

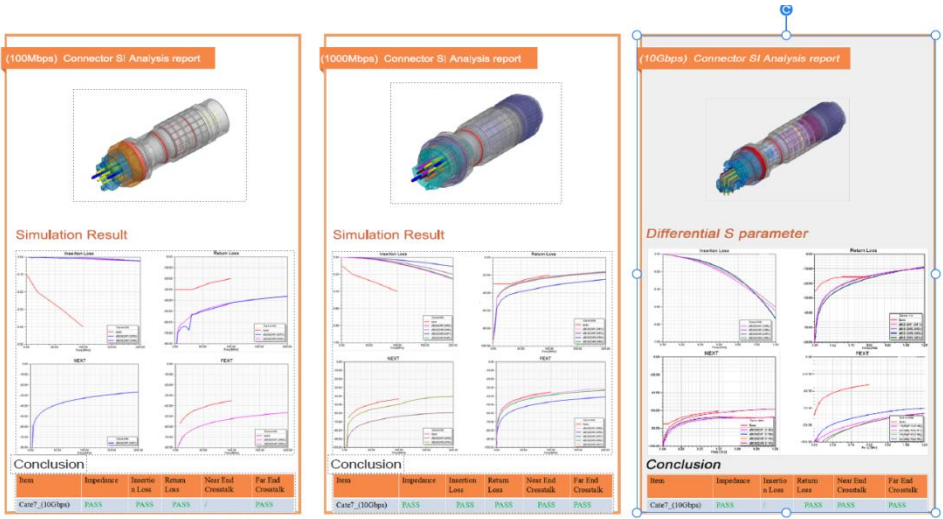
Structure Diagram



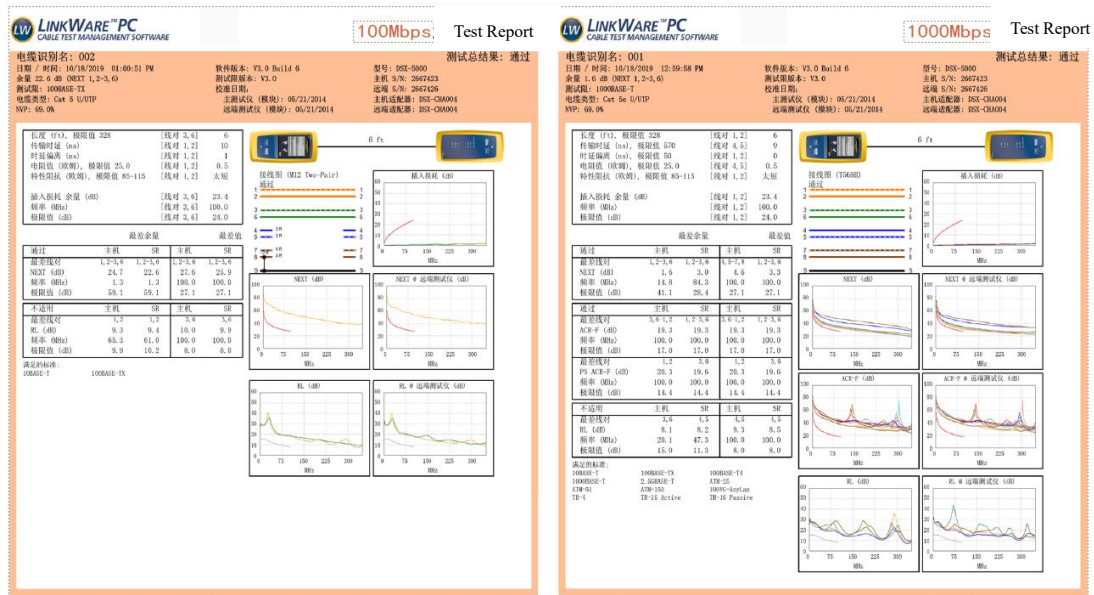
1.7 Product Model



1.8 Performance Simulation



1.9 Performance Test

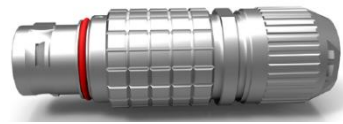


1 Product Selection

Selection Details

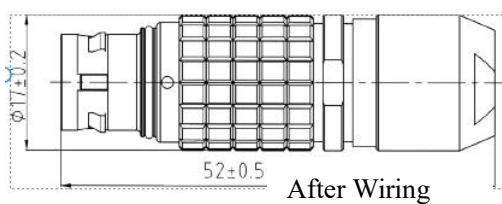
2.1 Wire End Connector (Pin End Crimp Type)

Appearance of Wire End Connector



*Remarks: Crimp pins must be ordered separately, see page 6 for material information.

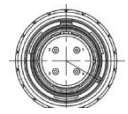
1. Appearance and Dimensions



After Wiring

2. End Layout and Material Information

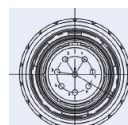
4-Core 100 MB



Connector Order Information (order pin separately)

Product Model	Order No.	Wiring O.D.
YGC-QLE-P4P (8. 3)	1120 3010 4830	φ 5~ φ 8. 3
YGC-QLE-P4P (9. 6)	1120 3010 4311	φ 7. 3~ φ 9. 5

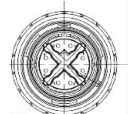
8-Core 1000 MB



Connector Order Information (order pin separately)

Product Model	Order No.	Wiring O.D.
YGC-QLE-P8P (8. 3)	1120 3010 4832	φ 5~ φ 8. 3
YGC-QLE-P8P (9. 6)	1120 3010 4319	φ 7. 3~ φ 9. 5

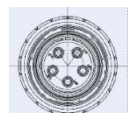
5-Core Power



Connector Order Information (order pin separately)

Product Model	Order No.	Wiring O.D.
YGC-QLE-P8XP (8. 3)	1120 3010 4833	φ 5~ φ 8. 3
YGC-QLE-P8XP (9. 6)	1120 3010 4571	φ 7. 3~ φ 9. 5

4-Core 100 MB

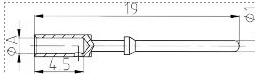


Connector Order Information (order pin separately)

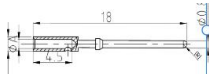
Product Model	Order No.	Wiring O.D.
YGC-QLE-P5P (8. 3)	1120 3010 4831	φ 5~ φ 8. 3
YGC-QLE-P5P (9. 6)	1120 3010 4578	φ 7. 3~ φ 9. 5

2.2 Pin Selection Information for Pin End Connector

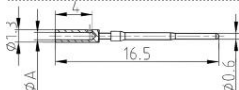
1. Applicable for 4-core 100MB and 5-core power connectors

Appearance	Name	ΦA	Code	Supporting Core Wire	Size
4-core 100MB and 5-core	YG1217 PinΦ1 0.34mm ² —Gold	—	0.9 1 1 40 2050 2355	AWG (26 ~ 22)	
4-core 100MB and 5-core	YG1217 PinΦ1 0.5mm ² —Gold	—	1.1 1 1 40 2050 2354	AWG (24 ~ 20)	
4-core 100MB and 5-core	YG1217 PinΦ1 1.0mm ² —Gold	—	1.4 1 1 40 2050 2353	AWG (20 ~ 17)	

2. Applicable for 8-core 1000MB connectors


Appearance	Name	ΦA	Code	Supporting Core Wire	Size
8-core 1000MB	YG1217 PinΦ0.8 0.34mm ² —Gold	—	0.9 1 1 40 2050 2358	AWG (26 ~ 22)	
8-core 1000MB	YG1217 PinΦ0.8 – 0.5mm ² —Gold	1.1	1 1 40 2050 2357	AWG (24 ~ 20)	

2. Applicable for 8X-core 10000MB connectors

Appearance	Name	ΦA	Code	Supporting Core Wire	Size
8X-core 10000MB	YG175 PinΦ0.6 –0.25mm ² —Gold	0.7	1 1 40 2050 1038	AWG (26 ~ 22)	
8X-core 10000MB	YG1217 PinΦ0.8 –0.34mm ² —Gold	0.9	1 1 40 2050 2004	AWG (24 ~ 20)	

2.3 Specialized Tools (Crimping Plier Type)

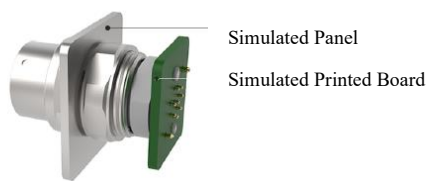
1. Applicable for 4-core 100MB and 5-core power connectors

Tool Name	Order Model	Graphic Display	
Crimping Plier	M22520/2 - 01		

Remarks: No special disassembly tool is required for this series.

2.4 Straight Welding Board Socket (Front of Board Mounting)

Straight Welding Board Socket

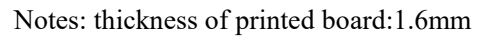


Notes: thickness of printed board:1.6mm

1. Appearance and Dimensions	2. End Layout, Recommended Opening Size and Material Information										
Socket Appearance 	4-Core 100 MB <table border="1"> <thead> <tr> <th></th><th>Product Model</th><th>Order No.</th></tr> </thead> <tbody> <tr> <td rowspan="2">Socket</td><td>YG1217 Front Separate Housing Assembly</td><td>1 1 30 2260 0098</td></tr> <tr> <td>YG1217Socket (4-core)</td><td>1 1 30 6020 0520</td></tr> </tbody> </table>			Product Model	Order No.	Socket	YG1217 Front Separate Housing Assembly	1 1 30 2260 0098	YG1217Socket (4-core)	1 1 30 6020 0520	
	Product Model	Order No.									
Socket	YG1217 Front Separate Housing Assembly	1 1 30 2260 0098									
	YG1217Socket (4-core)	1 1 30 6020 0520									
Front Separate Housing Assembly Diagram 	8-Core 1000 MB <table border="1"> <thead> <tr> <th></th><th>Product Model</th><th>Order No.</th></tr> </thead> <tbody> <tr> <td rowspan="2">Socket</td><td>YG1217 Front Separate Housing Assembly</td><td>1130 2260 0098</td></tr> <tr> <td>YG1217Socket (8-core)</td><td>1120 4980 0031</td></tr> </tbody> </table>			Product Model	Order No.	Socket	YG1217 Front Separate Housing Assembly	1130 2260 0098	YG1217Socket (8-core)	1120 4980 0031	
	Product Model	Order No.									
Socket	YG1217 Front Separate Housing Assembly	1130 2260 0098									
	YG1217Socket (8-core)	1120 4980 0031									
Dimension Drawing after Assembly 	8X-Core 1000 MB <table border="1"> <thead> <tr> <th></th><th>Product Model</th><th>Order No.</th></tr> </thead> <tbody> <tr> <td rowspan="2">Socket</td><td>YG1217 Front Separate Housing Assembly</td><td>1130 2260 0098</td></tr> <tr> <td>YG1217Socket (8X-core)</td><td>1130 2260 0100</td></tr> </tbody> </table>			Product Model	Order No.	Socket	YG1217 Front Separate Housing Assembly	1130 2260 0098	YG1217Socket (8X-core)	1130 2260 0100	
	Product Model	Order No.									
Socket	YG1217 Front Separate Housing Assembly	1130 2260 0098									
	YG1217Socket (8X-core)	1130 2260 0100									
Recommended panel mounting opening size (panel thickness: MAX4.5mm) 	5-Core Power <table border="1"> <thead> <tr> <th></th><th>Product Model</th><th>Order No.</th></tr> </thead> <tbody> <tr> <td rowspan="3">Socket</td><td>YG1217 Front Separate Housing Assembly</td><td>1130 2260 0098</td></tr> <tr> <td rowspan="2">YG1217Socket (5-core)</td><td>1120 2260 0105</td></tr> <tr> <td>11202260 0106</td></tr> </tbody> </table> <div style="display: flex; justify-content: space-around;"> <div> Grounded </div> <div> Not Grounded </div> </div>			Product Model	Order No.	Socket	YG1217 Front Separate Housing Assembly	1130 2260 0098	YG1217Socket (5-core)	1120 2260 0105	11202260 0106
	Product Model	Order No.									
Socket	YG1217 Front Separate Housing Assembly	1130 2260 0098									
	YG1217Socket (5-core)	1120 2260 0105									
		11202260 0106									

Grounded
Not Grounded

Straight Welding Board Socket

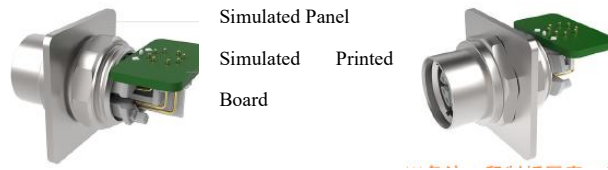


Grounded

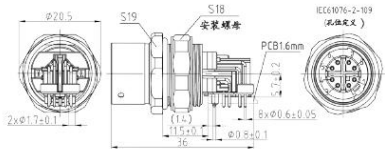
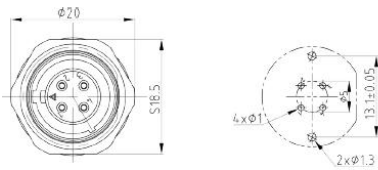
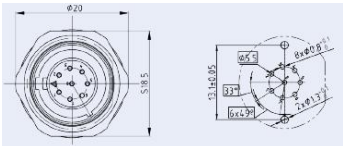
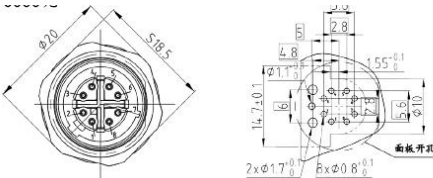
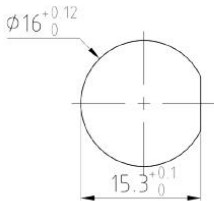
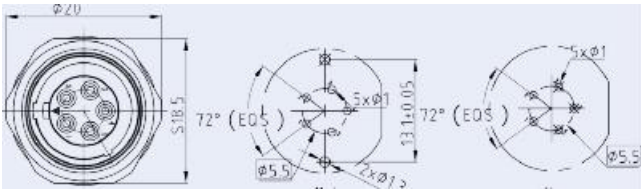
Not Grounded

2.6 Bent Welding Board Socket (Front of Board Mounting)

Bent Welding Board Socket

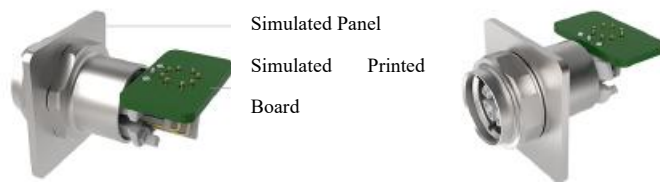


Notes: thickness of printed board:1.6mm

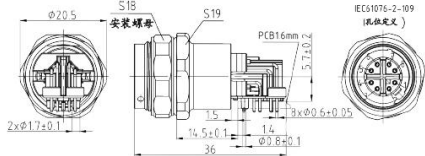
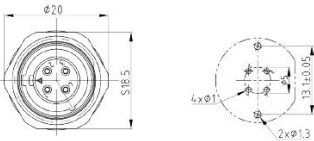
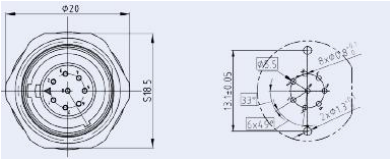
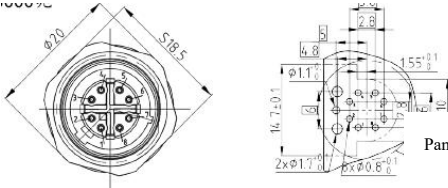
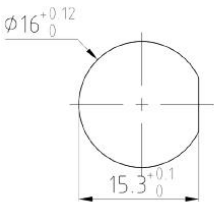

1. Appearance and Dimensions	2. End Layout, Recommended Opening Size and Material Information											
<p>Socket Appearance</p> 	<p>4-Core 100 MB</p>  <table><tr><td></td><td>Product Model</td><td>Order No.</td></tr><tr><td>Socket</td><td>YGC-QLE-S4RBW</td><td>1120 4010 4840</td></tr></table>		Product Model	Order No.	Socket	YGC-QLE-S4RBW	1120 4010 4840					
	Product Model	Order No.										
Socket	YGC-QLE-S4RBW	1120 4010 4840										
<p>Front Separate Housing Assembly Diagram</p>	<p>8-Core 1000 MB</p>  <table><tr><td></td><td>Product Model</td><td>Order No.</td></tr><tr><td>Socket</td><td>YGC-QLE-S8RBW</td><td>1120 4010 4830</td></tr></table>		Product Model	Order No.	Socket	YGC-QLE-S8RBW	1120 4010 4830					
	Product Model	Order No.										
Socket	YGC-QLE-S8RBW	1120 4010 4830										
	<p>8X-Core 1000 MB</p>  <p>Panel Opening Relationship</p> <table><tr><td></td><td>Product Model</td><td>Order No.</td></tr><tr><td>Socket</td><td>YGC-QLE-S8XRBW</td><td>1120 4010 4603</td></tr></table>		Product Model	Order No.	Socket	YGC-QLE-S8XRBW	1120 4010 4603					
	Product Model	Order No.										
Socket	YGC-QLE-S8XRBW	1120 4010 4603										
<p>Recommended panel mounting opening size (panel thickness: MAX4.5mm)</p> 	<p>5-Core Power</p>  <p>Grounded Not Grounded</p> <table><tr><td></td><td>Product Model</td><td>Order No.</td><td>Notes</td></tr><tr><td rowspan="2">Socket</td><td>YGC-QLE-S5RBW</td><td>1120 4010 4605</td><td>Grounded</td></tr><tr><td>YGC-QLE-S5RBW</td><td>1120 4010 4841</td><td>Not Grounded</td></tr></table>		Product Model	Order No.	Notes	Socket	YGC-QLE-S5RBW	1120 4010 4605	Grounded	YGC-QLE-S5RBW	1120 4010 4841	Not Grounded
	Product Model	Order No.	Notes									
Socket	YGC-QLE-S5RBW	1120 4010 4605	Grounded									
	YGC-QLE-S5RBW	1120 4010 4841	Not Grounded									

2.7 Bent Welding Board Socket (Back of Board Mounting)

Bent Welding Board Socket



Notes: thickness of printed board:1.6mm

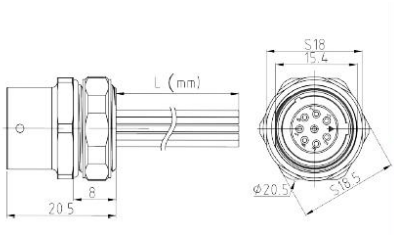
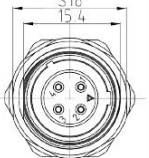
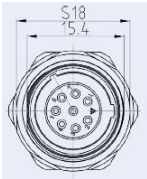
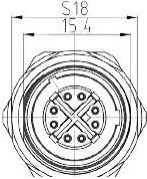
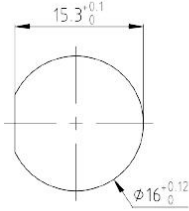
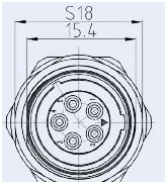
1. Appearance and Dimensions	2. End Layout, Recommended Opening Size and Material Information											
<div>Socket Appearance</div> <div></div>	<div>4-Core 100 MB</div> <div></div> <table><tr><td></td><td>Product Model</td><td>Order No.</td></tr><tr><td>Socket</td><td>YGC-QLE-S4RBW</td><td>1120 4010 4844</td></tr></table>		Product Model	Order No.	Socket	YGC-QLE-S4RBW	1120 4010 4844					
	Product Model	Order No.										
Socket	YGC-QLE-S4RBW	1120 4010 4844										
<div>Front Separate Housing Assembly Diagram</div>	<div>8-Core 1000 MB</div> <div></div> <table><tr><td></td><td>Product Model</td><td>Order No.</td></tr><tr><td>Socket</td><td>YGC-QLE-S8RBW</td><td>1120 4010 4845</td></tr></table>		Product Model	Order No.	Socket	YGC-QLE-S8RBW	1120 4010 4845					
	Product Model	Order No.										
Socket	YGC-QLE-S8RBW	1120 4010 4845										
	<div>8X-Core 1000 MB</div> <div></div> <table><tr><td></td><td>Product Model</td><td>Order No.</td></tr><tr><td>Socket</td><td>YGC-QLE-S8XRBW</td><td>1120 4010 4846</td></tr></table>		Product Model	Order No.	Socket	YGC-QLE-S8XRBW	1120 4010 4846					
	Product Model	Order No.										
Socket	YGC-QLE-S8XRBW	1120 4010 4846										
<div>Recommended panel mounting opening size (panel thickness: MAX2.5mm)</div> <div></div>	<div>5-Core Power</div> <div></div> <div>GroundedNot Grounded</div> <table><tr><td></td><td>Product Model</td><td>Order No.</td><td>Notes</td></tr><tr><td rowspan="2">Socket</td><td>YGC-QLE-S5RBW</td><td>1120 4010 4842</td><td>Grounded</td></tr><tr><td>YGC-QLE-S5RBW</td><td>1120 4010 4843</td><td>Not Grounded</td></tr></table>		Product Model	Order No.	Notes	Socket	YGC-QLE-S5RBW	1120 4010 4842	Grounded	YGC-QLE-S5RBW	1120 4010 4843	Not Grounded
	Product Model	Order No.	Notes									
Socket	YGC-QLE-S5RBW	1120 4010 4842	Grounded									
	YGC-QLE-S5RBW	1120 4010 4843	Not Grounded									

2.8 Prefabricated Cable Socket (Front of Board Mounting)

Prefabricated Cable Socket



Notes: L is length in mm, length to be confirmed.

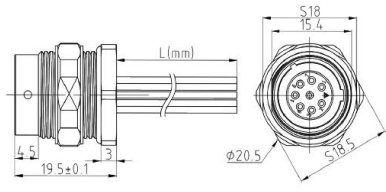
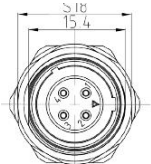
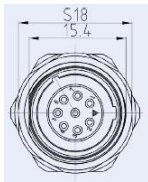
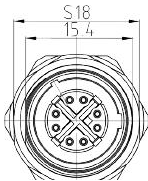
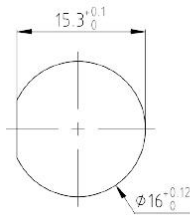
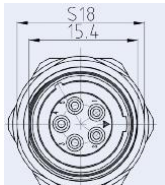
1. Appearance and Dimensions	2. End Layout, Core Wire Color and Hole Position Correspondence																									
<p>Front Mounting Wire Dumping Diagram</p> 	<p>4-Core 100 MB</p>  <table><tr><th>Core Wire</th><th>Hole</th></tr><tr><td>Yellow</td><td>1</td></tr><tr><td>White</td><td>2</td></tr><tr><td>Orange</td><td>3</td></tr><tr><td>Blue</td><td>4</td></tr></table>	Core Wire	Hole	Yellow	1	White	2	Orange	3	Blue	4	<table><tr><th></th><th>Product Model</th><th>Order No.</th></tr><tr><td>Socket</td><td>YGC-QLE-S8RQ-L</td><td></td></tr></table>		Product Model	Order No.	Socket	YGC-QLE-S8RQ-L									
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2.9 Prefabricated Cable Socket (Back of Board Mounting)

Prefabricated Cable Socket

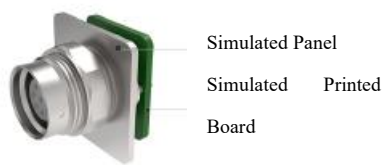


Notes: L is length in mm, length to be confirmed.

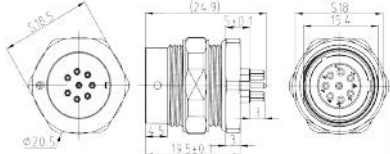
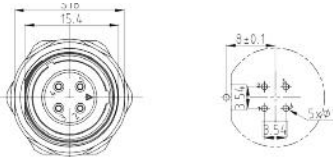
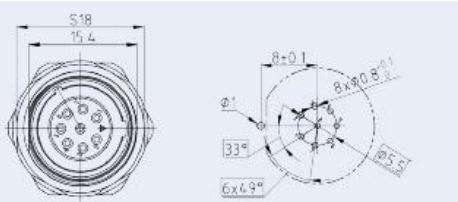
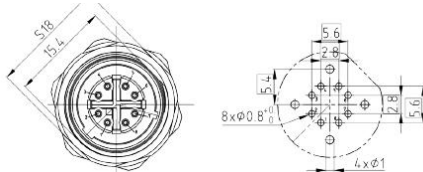
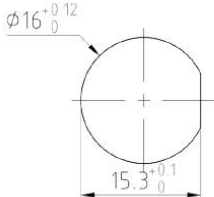
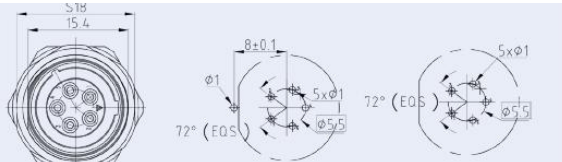
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2.10 Straight (Integral)Welding Board Socket (Back of Board Mounting)

Straight Welding Board Socket

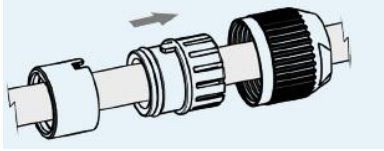
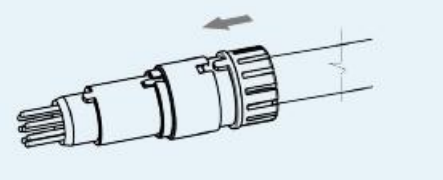

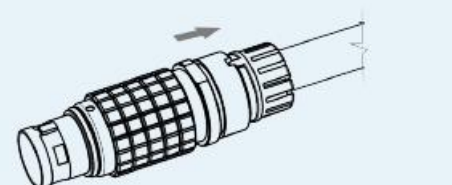
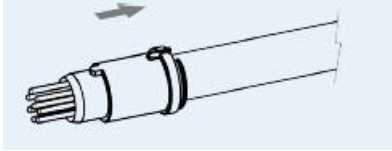
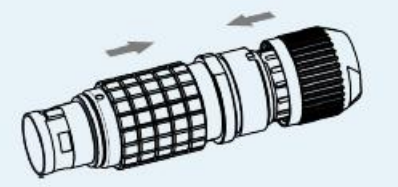
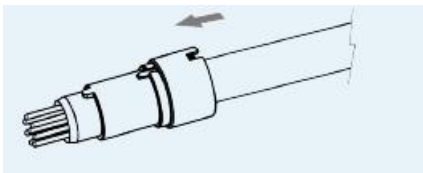
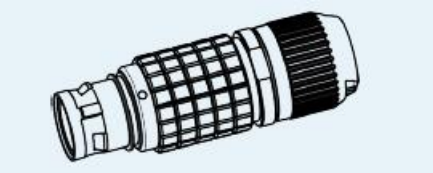


Notes: thickness of printed board:1.6mm

1. Appearance and Dimensions	2. End Layout, Recommended Opening Size and Material Information							
Straight Welding Board Diagram (Back of Board Mounting, Integral)	4-Core 100 MB							
								
	<table><tr><td></td><td>Product Model</td><td>Order No.</td></tr><tr><td>Socket</td><td>YGC-QLE-S4RA</td><td>1120 4010 4849</td></tr></table>		Product Model	Order No.	Socket	YGC-QLE-S4RA	1120 4010 4849	
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	8-Core 1000 MB							
								
	<table><tr><td></td><td>Product Model</td><td>Order No.</td></tr><tr><td>Socket</td><td>YGC-QLE-S8RA</td><td>1120 4010 4848</td></tr></table>		Product Model	Order No.	Socket	YGC-QLE-S8RA	1120 4010 4848	
	Product Model	Order No.						
Socket	YGC-QLE-S8RA	1120 4010 4848						
	8X-Core 1000 MB							
								
	<table><tr><td></td><td>Product Model</td><td>Order No.</td></tr><tr><td>Socket</td><td>YGC-QLE-S8XRA</td><td>1120 4010 4847</td></tr></table>		Product Model	Order No.	Socket	YGC-QLE-S8XRA	1120 4010 4847	
	Product Model	Order No.						
Socket	YGC-QLE-S8XRA	1120 4010 4847						
Recommended panel mounting opening size (panel thickness: MAX2.5mm)	5-Core Power							
								
	Grounded	Not Grounded						
	<table><tr><td></td><td>Product Model</td><td>Order No.</td></tr><tr><td>Socket</td><td>YGC-QLE-S5RA</td><td>1120 4010 4850</td></tr></table>		Product Model	Order No.	Socket	YGC-QLE-S5RA	1120 4010 4850	
	Product Model	Order No.						
Socket	YGC-QLE-S5RA	1120 4010 4850						

3 Installation Steps

Operation and Assembly Steps

<p>④ Thread the tail nut, sealing sleeve (suitable), sealing sheath, shielding spring, and support sleeve of the connector into the cable in sequence.</p>	<p>⑤ Align the sealing sleeve with the key and push the sealing sleeve into the support seat, insert the sealing sleeve into the sealing sleeve.</p>
	
<p>② Strip and crimp pins</p>	<p>⑥ Integrate the cable assembly with pins and connector accessories into the plug housing.</p>
	
<p>③ Install the pins to the rear mounting board, then align the front mounting board with the keys and insert them.</p>	<p>⑦ Align the key into the housing, then lock the tail nut; when you cannot judge whether the tail nut is locked, tight with 2N.m ~ 2.5N.</p>
	
<p>④ Align the metal support seat with the key (additional 10 N force is required) and push and connect it with the rear mounting board; push the shielded spring.</p>	<p>⑧. Complete assembly</p>
	



Yungui Connector ---Connector Expert

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<http://www.yonggui-sc.com/>