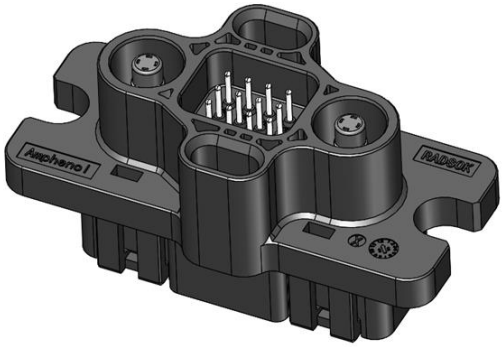
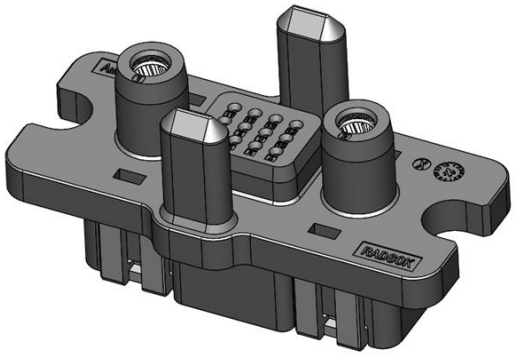
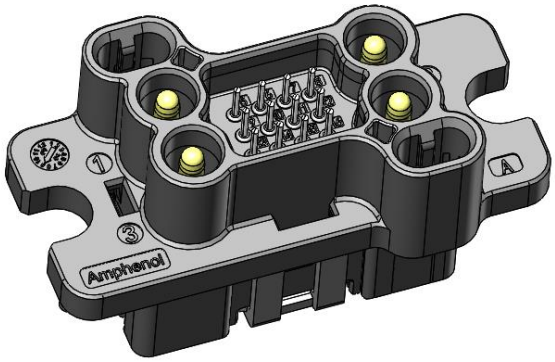
CONNECTOR ASSEMBLY INSTRUCTIONS

Floating Mate Series







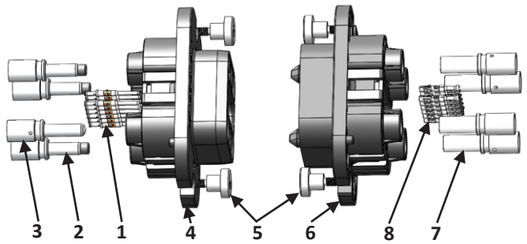
Work Instruction for 4+12 5.7mm floating connector
P/N:C10-781650-10X0 & C10-781651-10X0

Document number: ATZ-WI-202301-002
Date:2026/02/04
Rev: G

History of changes

Rev	Description	Originator	Date
F	1. Update the marking of the housing's grounding PIN 2. Cancel the selection and crimping parameters of signal Pin (stamping type)	ZhengLong Xu	Nov. 25th,2025
G	Update file layout and arrangement and Table 2	ZhengLong Xu	Feb. 13th, 2026

Part 1: Package contents
第一部分：包装清单



Item 序号	Part description 零件描述	Part number 零件料号	Remarks 备注
1	Signal male Pin 信号公端子	20 AWG ZH-795850-201	Applicable cable size: 20 AWG (O.D: 2.2mm MAX) 适用线径：20 AWG (O.D: 2.2mm MAX)
		16 AWG ZH-795850-161	Applicable cable size: 16 AWG (O.D: 2.7mm MAX) 适用线径：16 AWG (O.D: 2.7mm MAX)
2	Power male pin 电源公端子	16SQ. mm: C10-781685-011	Applicable cable size: 6 AWG or 16SQ. mm (O.D: 8.5mm MAX) 适用线径：6 AWG or 16SQ. mm (O.D: 8.5mm MAX)
		25SQ. mm: C10-781685-021	Applicable cable size:4 AWG or 25SQ. mm (O.D: 10.5mm MAX) 适用线径：4 AWG or 25SQ. mm (O.D: 10.5mm MAX)
3	PE pin 接地端子	C10-781683-011	Applicable cable size:6 AWG or 16SQ. mm (O.D: 8.5mm MAX) 适用线径：6 AWG or 16SQ. mm (O.D: 8.5mm MAX)
4	Plug housing Assy 插头壳体组件	C10-781650-1000	This product not have PE marking. 产品没有接地线标记
		C10-781650-1010	This product has PE marking. 产品有接地线标记
5	Floating screw 浮动螺丝	C10-781688-000	Screw spec: M4*P0.7, thread length 5.1mm 螺纹规格：M4*P0.7，螺纹长度 5.1mm
6	Receptacle housing Assy 插座壳体组件	C10-781651-1000	This product not have PE marking. 产品没有接地线标记
		C10-781651-1010	This product has PE marking. 产品有接地线标记
7	Power female socket 电源母端子	16SQ. mm: C10-781690-011	Applicable cable size: 6 AWG or 16SQ. mm (O.D: 8.5mm MAX) 适用线径：6 AWG or 16SQ. mm (O.D: 8.5mm MAX)
		25SQ. mm: C10-781690-021	Applicable cable size: 4 AWG or 25SQ. mm (O.D: 10.5mm MAX) 适用线径：4 AWG or 25SQ. mm (O.D: 10.5mm MAX)
8	Signal female Socket 信号母端子	20 AWG C10-780107-201	Applicable cable size: 20 AWG (O.D: 2.2mm MAX) 适用线径：20 AWG (O.D: 2.2mm MAX)
		16 AWG C10-780107-161	Applicable cable size: 16 AWG (O.D: 2.7mm MAX) 适用线径：16 AWG (O.D: 2.7mm MAX)

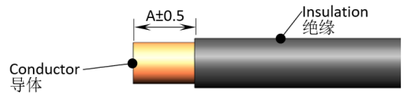
Notes：The picture illustrates final assembly, for storage and shipping the parts are unassembled. The package may not contain all the parts according to the customer order's part number.
注意：上图展示的是最终装配状态，对于储存和运输零件都是不装配的。根据客户下单料号不同，包装中可能不会包含全部零件。

Part 2: Plug assembly
第二部分：插头组装

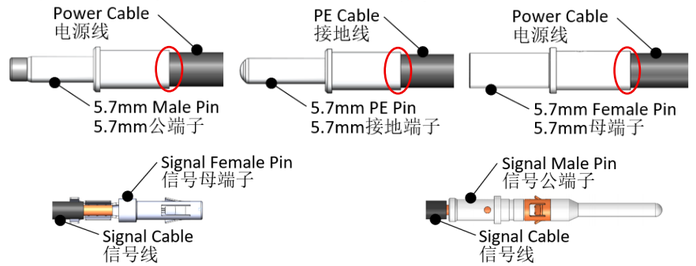
Step 1: Cable cutting and stripping. The recommended cable OD is according to table 1.
步骤 1：线的裁剪和剥皮． 推荐线缆外径见表 1。

Notes: Refer to IPC620 Class3, the cable core is cut and stop proceed to the next step.
注意:参考标准 IPC620 Class3，线芯被切断则不能往下进行。

Table1: Cable cutting size 表 1：裁线尺寸		
Cable Type 线缆类别	Cable specification 线缆规格	DIM A
Power Cable 电源线	6 AWG or 16SQ. mm	10.5±0.5mm
	4 AWG or 25 SQ. mm	10.5±0.5mm
Signal Cable 信号线	20 AWG	4.5±0.5mm
	16 AWG	4.5±0.5mm



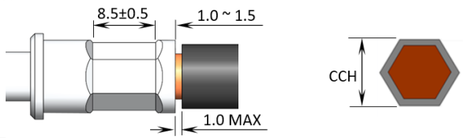
Step 2: Insert the cable conductor into the corresponding terminal crimping hole (slot) according to the table 1.
步骤 2：参照表 1 将线缆导体插入相应的端子压接孔(槽)中。



Notes: The insulation jacket should be close to the terminal.
注意:端子与线缆绝缘层需贴紧。

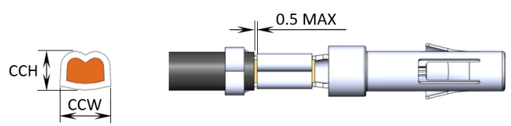
Step 3: Crimp the terminal according to the following specifications.
步骤 3：按照下列规格与端子种类，将端子压接.

- For power male pin (P/N is C10-781685-0X1) and power female socket (P/N is C10-781690-0X1), the crimping type and crimping size are the same.
- 对于电源公端子（料号 C10-781685-0X1）和母端子（料号 C10-781690-0X1），压接类型和尺寸是一样的。



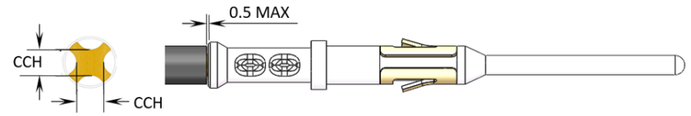
Cable size 线材尺寸	Cable range 线材外径范围	Recommended dist across flats CCH 推荐压接平面距离 CCH	Cable pullout force 线材压接拔出力	T-rise 温升
6 AWG or 16SQ. mm	8.5mm MAX	6.2 +/-0.1 mm	1500N Min.	≤45℃@ 80A
4 AWG or 25SQ. mm	10.5mm MAX	7.2 +/-0.1mm	1900N Min.	≤45℃@ 100A

- For signal female socket (P/N is C10-780107-201 & C10-780107-161), the crimping type and crimping size show as below.
- 对于信号母端子（料号 C10-780107-201 & C10-780107-161），压接类型和尺寸如下所示。



Cable size 线材尺寸	Cable range 线材外径范围	Recommended crimping CCW and CCH 推荐压接平面宽度 CCW 和高度 CCH	Cable pullout force 线材压接拔出力	T-rise 温升
20 AWG	2.2mm MAX	CCW: 1.9±0.05 mm; CCH: 0.95±0.05 mm	75N Min.	≤45℃@ 3A
16 AWG	2.7mm MAX	CCW: 1.95±0.05 mm; CCH: 1.55±0.05 mm	135N Min.	≤45℃@ 3A

- For signal male pin (P/N is ZH-795850-201 & ZH-795850-161) , the crimping type and crimping size show as below.
- 对于信号公端子（料号 ZH-795850-201 & ZH-795850-161），压接类型和尺寸如下所示。



Cable size 线材尺寸	Cable range 线材外径范围	Recommended dist across flats CCH 推荐压接平面距离 CCH	Cable pullout force 线材压接拔出力	T-rise 温升
20 AWG	2.2mm MAX	1.05+/-0.05 mm	75N Min.	≤45℃@ 3A
16 AWG	2.7mm MAX	1.45+/-0.05 mm	135N Min.	≤45℃@ 3A

Notes: The recommended crimp sizes are only for reference. The customer should adjust them according to cable specification and crimp tool and test results including temperature rise and metallographic analysis and pullout force.
注意：推荐的压接尺寸仅供参考,客人应根据所使用线缆规格,压接工具,压接验证测试结果包含温升测试和金相分析以及拉力测试等调整压接尺寸.

Step 4: Apply a heat shrink tube onto the power cable only. It is the similar for power male pin and power female socket, show as below.
步骤 4：仅在电源线束上增加热缩套管，对于电源公端子和母端子是类似的，如下所示。

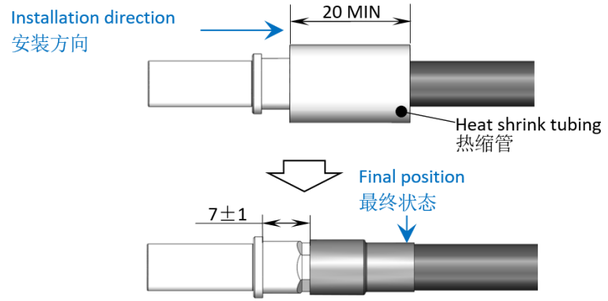


Table 2： Recommended size of heat-shrinkable tube 表 2：建议热缩套管尺寸			
Before heated 收缩前尺寸（mm）		After heated 完全收缩后尺寸（mm）	
Inside diameter 内径	Wall thickness 平均壁厚	Inside diameter 内径	Wall thickness 平均壁厚
11.0 + 0.3/-0.1	0.15±0.05	≤ 5.0	0.32±0.06

Note：1. Recommended size is only for reference, guests should select appropriate size of heat-shrinkable tube according to cable O.D and actual application.
2. It is only applied to 16sqm(6AWG) or 25sqmm(4AWG) power terminal and PE terminal.
备注：1. 建议尺寸仅供参考，客人应根据电缆外径和实际应用选择合适尺寸的热缩管.
2. 仅适用于 16sqmm(6AWG)或 25sqmm(4AWG)电源端子和接地端子。

Disassembly Work Instruction for 4+12 5.7mm floating connector
P/N:C10-781650-10X0 & C10-781651-10X0

Document number: ATZ-WI-202303-001
Date:2026/02/04
Rev: B

History of changes

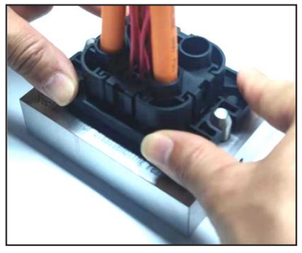
Rev	Description	Originator	Date
A	First release	ZhengLong Xu	Mar. 02th, 2023
B	Update the file format	ZhengLong Xu	Feb. 13th, 2026

Part 1: Disassembly special tool introduction
第一部分：拆卸专用工具介绍

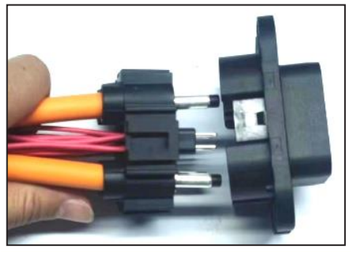
Item 序号	Tool description 工具描述	Tool number 工具料号	Picture 图片	Remarks 备注
1	Back cap un-assembly tool 后盖解锁工具	FX3-0172-000		Tool for removing back cap from connector housing 用来将连接器后盖从外壳中拆卸下来的工具
2	16# signal terminal un-assembly tool 16#信号端子退针工具	TOOL-738651-016		Tool for removing signal terminals from connector back cap 用来将信号端子从连接器后盖中拆卸的工具
3	Reverse tweezers 反向型镊子	/		Tool for removing claw ring from power terminal 用来将卡环从电源端子上拆卸的工具

Part 2: Disassembly methods and steps
第二部分：拆卸方法和步骤

Step 1：Removing back cap from connector housing.
步骤 1：后盖从外壳上取出.

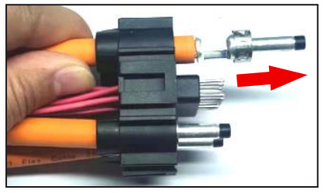


Put the connector on the back cap un-assembly tool and then press the four corners of the connector by hands as show. When you hear a "click" sound, the back cap is unlocked from housing successfully.
如图所示，将连接器放置在后壳解锁工具上，并手按压连接器的四个角。当您听到“咔嚓”声时，即后盖已成功解锁。

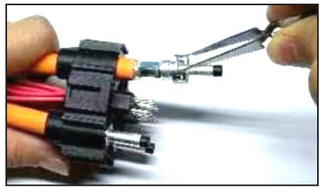


After the back cap is unlocked, hold the harness and pull out the back cap from the housing.
后盖解锁后，握住线束并从外壳中取出。

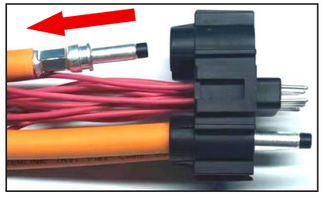
Step 2 ：Removing power terminals from back cap.
步骤 2：电源端子从后盖中取出.



Push the power cable until the claw ring separate from the back cap as show.
如图所示，推动电源线缆至卡环完全从后盖中脱离。



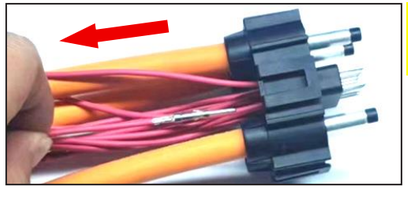
Take out the law ring from power terminal By reverse tweezers as show.
如图所示,用反向型镊子将卡环从电源上中取出。



Take out the power cable from back cap as show.
如图所示，从后盖中取出电源线缆。

Step 3：Removing signal terminals from back cap.
步骤 3：信号端子从后盖上取下.

As shown in the figure, insert the 16 # signal terminal withdrawal tool into the signal terminal hole until it reaches the bottom and press the draw back button. When you hear a "click" sound, the signal wire has been successfully unlocked.
如图所示,用 16#信号端子退针工具插入到信号端子孔直到孔底部并按压退针按钮，当您听到“咔嚓”声时，即信号线已成功解锁。



Take out the signal cable from back cap as show.
如图所示，从后盖中取出信号线缆。

⚠ Notes: The removal method of connector plug and receptacle is the same.
备注：连接器插头与插座的拆卸方法相同.

Amphenol Industrial

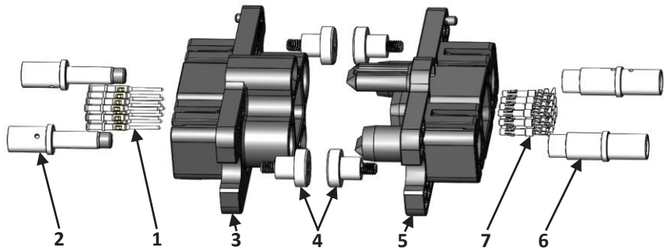
Work Instruction for 2+12 5.7mm floating connector
P/N:C10-792583-1000 & C10-792584-1000

Document number: ATZ-WI-202303-009
Date:2026/02/04
Rev: C

History of changes

Rev	Description	Originator	Date
B	Add 8AWG Power Pin specification and lathe machining signal Pin	ZhengLong Xu	Dec. 23th,2023
C	Update file layout and arrangement and Table 2	ZhengLong Xu	Feb. 13th, 2026

Part 1: Package contents
第一部分：包装清单



Item 序号	Part description 零件描述	Part number 零件料号	Remarks 备注
1	Signal male Pin 信号公端子	20 AWG C10-793748-201	Applicable cable size: 20 AWG (O.D: 2.2mm MAX) 适用线径：20 AWG (O.D: 2.2mm MAX)
2	Power male pin 电源公端子	10SQ. mm: C10-792385-001	Applicable cable size: 8 AWG or 10SQ. mm (O.D: 6.3mm MAX) 适用线径：8 AWG or 10SQ. mm (O.D: 6.3mm MAX)
		16SQ. mm: C10-792385-011	Applicable cable size: 6 AWG or 16SQ. mm (O.D: 8.5mm MAX) 适用线径：6 AWG or 16SQ. mm (O.D: 8.5mm MAX)
		25SQ. mm: C10-792385-021	Applicable cable size:4 AWG or 25SQ. mm (O.D: 10.5mm MAX) 适用线径：4 AWG or 25SQ. mm (O.D: 10.5mm MAX)
3	Plug housing Assy 插头壳体组件	C10-792583-1000	/
4	Floating screw 浮动螺丝	C10-781688-000	Screw spec: M4*P0.7, thread length 5.1mm 螺纹规格：M4*P0.7，螺纹长度 5.1mm
5	Receptacle housing Assy 插座壳体组件	C10-792584-1000	/
6	Power female socket 电源母端子	10SQ. mm: C10-792386-001	Applicable cable size: 8 AWG or 10SQ. mm (O.D: 6.3mm MAX) 适用线径：8 AWG or 10SQ. mm (O.D: 6.3mm MAX)
		16SQ. mm: C10-792386-011	Applicable cable size: 6 AWG or 16SQ. mm (O.D: 8.5mm MAX) 适用线径：6 AWG or 16SQ. mm (O.D: 8.5mm MAX)
		25SQ. mm: C10-792386-021	Applicable cable size: 4 AWG or 25SQ. mm (O.D: 10.5mm MAX) 适用线径：4 AWG or 25SQ. mm (O.D: 10.5mm MAX)
7	Signal female Socket 信号母端子	20 AWG C10-780111-201	Applicable cable size: 20 AWG (O.D: 2.2mm MAX) 适用线径：20 AWG (O.D: 2.2mm MAX)

Notes：The picture illustrates final assembly, for storage and shipping the parts are unassembled. The package may not contain all the parts according to the customer order's part number.
注意：上图展示的是最终装配状态，对于储存和运输零件都是不装配的。根据客户下单料号不同，包装中可能不会包含全部零件。

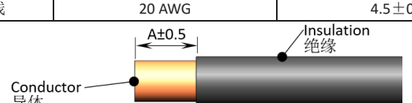
Part 2: Plug assembly
第二部分：插头组装

Step 1: Cable cutting and stripping. The recommended cable OD is according to table 1.
步骤 1：线的裁剪和剥皮. 推荐线缆外径见表 1。

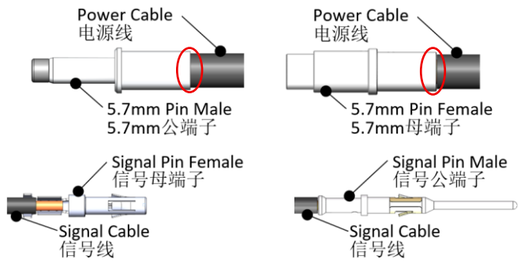
Notes: Refer to IPC620 Class3, the cable core is cut and stop proceed to the next step.
注意:参考标准 IPC620 Class3，线芯被切断则不能往下进行。

Table1: Cable cutting size 表 1：裁线尺寸

Cable Type 线缆类别	Cable specification 线缆规格	DIM A
Power Cable 电源线	8 AWG or 10SQ. mm	9.5±0.5mm
	6 AWG or 16SQ. mm	9.5±0.5mm
	4 AWG or 25 SQ. mm	9.5±0.5mm
Signal Cable 信号线	20 AWG	4.5±0.5mm



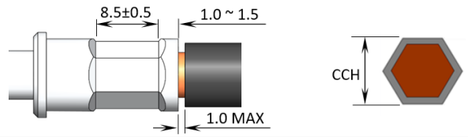
Step 2: Insert the cable conductor into the corresponding terminal crimping hole (slot) according to the table 1.
步骤 2：参照表 1 将线缆导体插入相应的端子压接孔(槽)中。



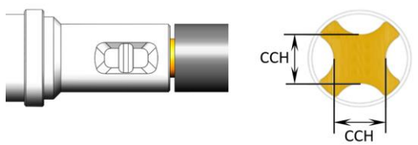
Notes: The insulation jacket should be close to the terminal.
注意:端子与线缆绝缘层需贴紧。

Step 3: Crimp the terminal according to the following specifications.
步骤 3：按照下列规格与端子种类，将端子压接.

- For power male pin (P/N is C10-792385-0X1) and power female socket (P/N is C10-792386-0X1), the crimping type and crimping size are the same.
- 对于电源公端子（料号 C10-792385-0X1）和母端子（料号 C10-792386-0X1），压接类型和尺寸是一样的。

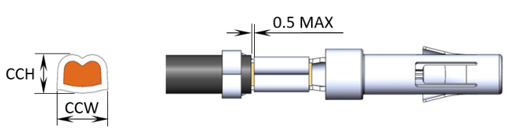


Cable size 线材尺寸	Cable range 线材外径范围	Recommended dist across flats CCH 推荐压接平面距离 CCH	Cable pullout force 线材压接拔出力	T-rise 温升
6 AWG or 16SQ. mm	8.5mm MAX	6.2 +/-0.1 mm	1500N Min.	≤45℃@ 80A
4 AWG or 25SQ. mm	10.5mm MAX	7.2 +/-0.1mm	1900N Min.	≤45℃@ 100A



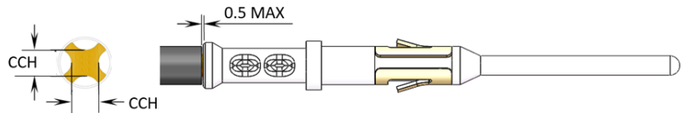
Cable size 线材尺寸	Recommended across flats CCH 推荐压接平面距离 CCH	Cable pullout force 线材压接拔出力
8AWG or 10 mm2	3.2±0.05 mm	500N Min.

- For signal female socket (P/N is C10-780111-201), the crimping type and crimping size show as below.
- 对于信号母端子（料号 C10-780111-201），压接类型和尺寸如下所示。



Cable size 线材尺寸	Cable range 线材外径范围	Recommended crimping CCW and CCH 推荐压接平面宽度 CCW 和高度 CCH	Cable pullout force 线材压接拔出力	T-rise 温升
20 AWG	2.2mm MAX	CCW: 1.9±0.05 mm; CCH: 0.95±0.05 mm	75N Min.	≤45℃@ 3A

- For signal male pin (P/N is C10-793748-201) , the crimping type and crimping size show as below.
- 对于信号公端子（料号 C10-793748-201），压接类型和尺寸如下所示。



Cable size 线材尺寸	Cable range 线材外径范围	Recommended dist across flats CCH 推荐压接平面距离 H	Cable pullout force 线材压接拔出力	T-rise 温升
20 AWG	2.2mm MAX	1.05+/-0.05 mm	75N Min.	≤45℃@ 3A

Notes: The recommended crimp sizes are only for reference. The customer should adjust them according to cable specification and crimp tool and test results including temperature rise and metallographic analysis and pullout force.
注意：推荐的压接尺寸仅供参考,客人应根据所使用线缆规格,压接工具,压接验证测试结果包含温升测试和金相分析以及拉力测试等调整压接尺寸.

Step 4: Apply a heat shrink tube onto the power cable only. It is the similar for power male pin and power female socket, show as below.
步骤 4：仅在电源线束上增加热缩套管，对于电源公端子和母端子是类似的，如下所示。

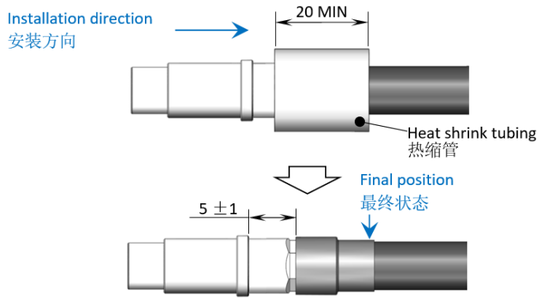


Table 2： Recommended size of heat-shrinkable tube 表 2：建议热缩套管尺寸			
Before heated 收缩前尺寸（mm）		After heated 完全收缩后尺寸（mm）	
Inside diameter 内径	Wall thickness 平均壁厚	Inside diameter 内径	Wall thickness 平均壁厚
11.0 + 0.3/-0.1	0.15±0.05	≤ 5.0	0.32±0.06

Note：1. Recommended size is only for reference, guests should select appropriate size of heat-shrinkable tube according to cable O.D and actual application.
2. It is only applied to 16sqm(8AWG) or 16sqmm(6AWG) power terminal or 25sqmm(4AWG) power terminal.
备注：1. 建议尺寸仅供参考，客人应根据电缆外径和实际应用选择合适尺寸的热缩管.
2.仅适用于 10SQ. mm (8 AWG)或 16SQ. mm (6 AWG)或 25SQ. mm (4 AWG)电源端子。

Disassembly Work Instruction for 2+12 5.7mm floating connector
P/N:C10-792583-1000 & C10-792584-1000

Document number: ATZ-WI-202303-010
Date:2026/02/04
Rev: B

History of changes

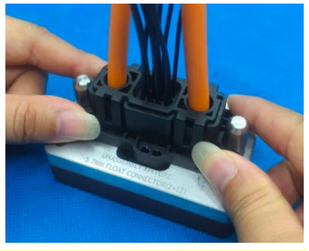
Rev	Description	Originator	Date
A	First release	ZhengLong Xu	Mar. 21th, 2023
B	Update the file format	ZhengLong Xu	Feb. 13th, 2026

Part 1: Disassembly special tool introduction
第一部分：拆卸专用工具介绍

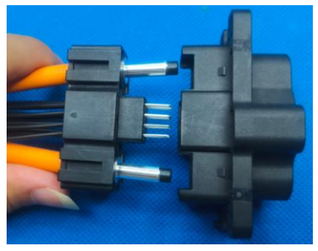
Item 序号	Tool description 工具描述	Tool number 工具料号	Picture 图片	Remarks 备注
1	Back cap un-assembly tool 后盖解锁工具	FX3-0200-000		Tool for removing back cap from connector housing 用来将连接器后盖从外壳中拆卸下来的工具
2	20# signal terminal un-assembly tool 20#信号端子退针工具	TOOL-738651-020		Tool for removing signal terminals from connector back cap 用来将信号端子从连接器后盖中拆卸的工具
3	Reverse tweezers 反向型镊子	/		Tool for removing claw ring from power terminal 用来将卡环从电源端子上拆卸的工具

Part 2: Disassembly methods and steps
第二部分：拆卸方法和步骤

Step 1：Removing back cap from connector housing.
步骤 1：后盖从外壳上取出.

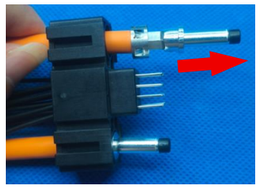


Put the connector on the back cap un-assembly tool and then press the four corners of the connector by hands as show. When you hear a "click" sound, the back cap is unlocked from housing successfully.
如图所示，将连接器放置在后壳解锁工具上，并手按压连接器的四个角。当您听到“咔嚓”声时，即后盖已成功解锁。



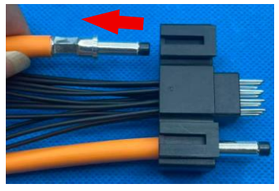
After the back cap is unlocked, hold the harness and pull out the back cap from the housing.
后盖解锁后，握住线束并从外壳中取出。

Step 2 ：Removing power terminals from back cap.
步骤 2：电源端子从后盖中取出.



Push the power cable until the claw ring separate from the back cap as show.
如图所示，推动电源线缆至卡环完全从后盖中脱离。

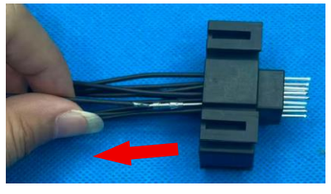
Tack out the law ring from power terminal By reverse tweezers as show.
如图所示,用反向型镊子将卡环从电源上中取出。



Take out the power cable from back cap as show.
如图所示，从后盖中取出电源线缆。

Step 3：Removing signal terminals from back cap.
步骤 3：信号端子从后盖上取下.

As shown in the figure, insert the 16 # signal terminal withdrawal tool into the signal terminal hole until it reaches the bottom and press the draw back button. When you hear a "click" sound, the signal wire has been successfully unlocked.
如图所示,用 16#信号端子退针工具插入到信号端子孔直到孔底部并按压退针按钮，当您听到“咔嚓”声时，即信号线已成功解锁。



Take out the signal cable from back cap as show.
如图所示，从后盖中取出信号线缆。

Notes: The removal method of connector plug and receptacle is the same.
备注：连接器插头与插座的拆卸方法相同.

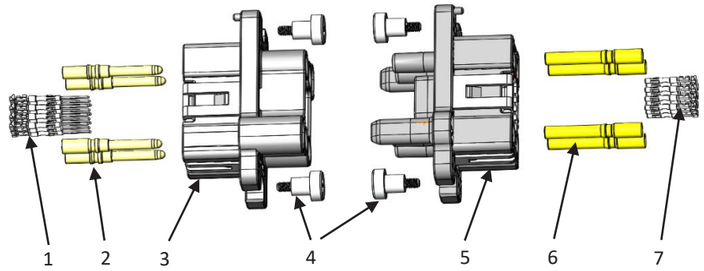
Work Instruction for 4+12 4.0mm floating connector
P/N:C10-792420-XXXX & C10-792421-XXXX

Document number: ATZ-WI-202405-007
Date:2026/01/28
Rev: B

History of changes

Rev	Description	Originator	Date
A	First release	Rock Yang	May 20th, 2024
B	Remove stamping signal male pin	Rock Yang	Feb. 13th, 2026

Part 1: Package contents
第一部分：包装清单



Item 序号	Part description 零件描述	Part number 零件料号	Remarks 备注
1	Signal male Pin 信号公端子	C10-793748-201	Applicable cable size: 20 AWG (O.D: 2.2mm MAX) 适用线径：20 AWG (O.D: 2.2mm MAX)
2	Power male pin 电源公端子	10SQ. mm: C10-792425-013	Applicable cable size:8 AWG or 10SQ. mm (O.D: 6.3mm MAX) 适用线径：8 AWG or 10SQ. mm (O.D: 6.3mm MAX)
		6SQ. mm: C10-792425-023	Applicable cable size: 10 AWG or 6 SQ. mm(O.D: 5.5mm MAX) 适用线径：10 AWG or 6 SQ. mm (O.D: 5.5mm MAX)
		4SQ. mm: C10-792425-033	Applicable cable size:12 AWG or 4 SQ. mm(O.D: 5.5mm MAX) 适用线径：12 AWG or 4 SQ. mm (O.D: 5.5mm MAX)
3	Plug housing Assy 插头壳体组件	C10-792420-1000	/
4	Floating screw 浮动螺丝	C10-781688-000	Screw spec: M4*P0.7, thread length 5.1mm 螺纹规格：M4*P0.7，螺纹长度 5.1mm
5	Receptacle housing Assy 插座壳体组件	C10-792421-1000	/
6	Power female socket 电源母端子	10SQ. mm: C10-792426-013	Applicable cable size:8 AWG or 10SQ. mm (O.D: 6.3mm MAX) 适用线径：8 AWG or 10SQ. mm (O.D: 6.3mm MAX)
		6SQ. mm: C10-792426-023	Applicable cable size: 10 AWG or 6 SQ. mm(O.D: 5.5mm MAX) 适用线径：10 AWG or 6 SQ. mm (O.D: 5.5mm MAX)
		4SQ. mm: C10-792426-033	Applicable cable size:12 AWG or 4 SQ. mm(O.D: 5.5mm MAX) 适用线径：12 AWG or 4 SQ. mm (O.D: 5.5mm MAX)
7	Signal female Socket 信号母端子	C10-780111-201	Applicable cable size: 20 AWG (O.D: 2.2mm MAX) 适用线径：20 AWG (O.D: 2.2mm MAX)

Notes：The picture illustrates final assembly, for storage and shipping the parts are unassembled. The package may not contain all the parts according to the customer order's part number.

注意：上图展示的是最终装配状态，对于储存和运输零件都是不装配的。根据客户下单料号不同，包装中可能不会包含全部零件。

Part 2: Plug assembly
第二部分：插头组装

Step 1: Cable cutting and stripping. The recommended cable OD is according to table 1.

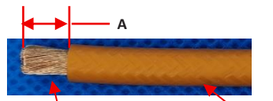
步骤 1：线的裁剪和剥皮。 推荐线缆外径见表 1。

Notes: Refer to IPC620 Class3, the cable core is cut and stop proceed to the next step.

注意:参考标准 IPC620 Class3，线芯被切断则不能往下进行。

Table1: Cable cutting size 表 1：裁线尺寸

Cable Type 线缆类别	Cable specification 线缆规格	DIM A
Power Cable 电源线	8 AWG or 10SQ. mm	7.5±0.5mm
	10 AWG or 6 SQ. mm	7.5±0.5mm
	12 AWG or 4 SQ. mm	7.5±0.5mm
Signal Cable 信号线	20 AWG	4.0±0.5mm



Power cable 电源线

Signal cable 信号线

Step 2: Insert the cable conductor part into the corresponding terminal crimping hole (slot) according to the table 1.

步骤 2：参照表 1 将线缆导体插入相应的端子压接孔(槽)中。

Power male pin 电源公端子

Power female socket 电源母端子

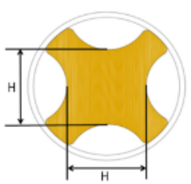
Signal male pin 信号公端子

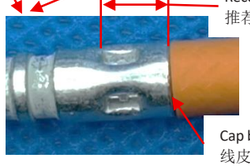
Signal female socket 信号母端子

Step 3: Crimp the terminal according to the following specifications.

步骤 3：按照下列规格与端子种类，将端子压接.

- For power male pin (P/N is C10-792425-XXX) and power female socket (P/N is C10-792426-XXX), the crimping type and crimping size are the same.
- 对于电源公端子（料号 C10-792425-XXX）和母端子（料号 C10-792426-XXX），压接类型和尺寸是一样的。



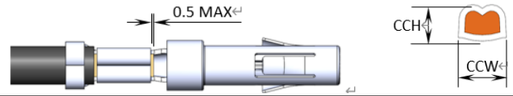


Recommended crimp length is 5±0.5mm
推荐压接长度为 5±0.5mm

Cap between cable and terminal is 0.5mm MAX
线皮和端子的间隙 0.5mm 最大

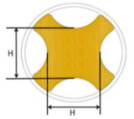
Cable size 线材尺寸	Cable range 线材外径范围	Recommended dist across flats H 推荐压接平面距离 H	Cable pullout force 线材压接拔出力	T-rise 温升
8 AWG or 10SQ. mm	6.3mm MAX	3.05+/-0.1 mm	500N Min.	≤45℃@ 65A
10 AWG or 6 SQ. mm	5.5mm MAX	2.55+/-0.08 mm	450N Min.	≤45℃@ 50A
12 AWG or 4 SQ. mm	5.5mm MAX	2.35+/-0.08 mm	310N Min.	≤45℃@ 40A

- For signal female socket (P/N is C10-780111-201), the crimping type and crimping size show as below.
- 对于信号母端子（料号 C10-780111-201），压接类型和尺寸如下所示。



Cable size 线材尺寸	Cable range 线材外径范围	Recommended crimping CCW and CCH 推荐压接平面宽度 CCW 和高度 CCH	Cable pullout force 线材压接拔出力	T-rise 温升
20 AWG	2.2mm MAX	CCW: 1.9±0.05 mm; CCH: 0.95±0.05 mm	75N Min.	≤45℃@ 3A

- For signal male pin (P/N is C10-793748-201) , the crimping type and crimping size show as below.
- 对于信号公端子（料号 C10-793748-201），压接类型和尺寸如下所示。



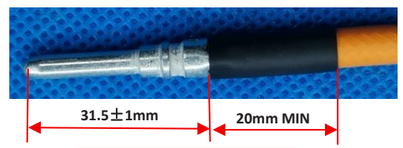
Cable size 线材尺寸	Cable range 线材外径范围	Recommended dist across flats H 推荐压接平面距离 H	Cable pullout force 线材压接拔出力	T-rise 温升
20 AWG	2.2mm MAX	1.05+/-0.05 mm	75N Min.	≤45℃@ 3A

Notes: The recommended crimp sizes are only for reference. The customer should adjust them according to cable specification and crimp tool and test results including temperature rise and metallographic analysis and pullout force.

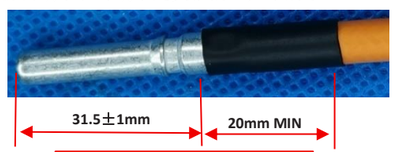
备注： 推荐的压接尺寸仅供参考，客人应根据所使用线缆规格、压接工具、压接验证测试结果包含温升测试和金相分析以及拉力测试等调整压接尺寸。

Step 4: Apply a heat shrink tube onto the power cable only. It is the similar for power male pin and power female socket, show as below.

步骤 4：仅在电源线束上增加热缩套管，对于电源公端子和母端子是类似的，如下所示。



Power male pin 电源公端子



Power female socket 电源母端子

Table 2： Recommended size of heat-shrinkable tube 表 2：建议热缩套管尺寸

Before heated 收缩前尺寸（mm）		After heated 完全收缩后尺寸（mm）	
Inside diameter 内径	Wall thickness 平均壁厚	Inside diameter 内径	Wall thickness 平均壁厚
7.5+0.3/-0.1	0.15±0.05	≤3.5	0.32±0.06

Note： 1. Recommended size is only for reference, guests should select appropriate size of heat-shrinkable tube according to cable O.D and actual application.

2. The above only applies to 6 SQ. mm (10 AWG) or 4 SQ. mm (12 AWG) power terminals and cable.

备注：1. 建议尺寸仅供参考，客人应根据电缆外径和实际应用选择合适尺寸的热缩管.

2. 以上仅适用于 6 SQ. mm (10 AWG) or 4 SQ. mm (12 AWG) 电源端子和线缆.

Disassembly Work Instruction for 4+12 4.0mm floating connector
P/N:C10-792420-XXXX & C10-792421-XXXX

Document number: ATZ-WI-202405-008
Date:2026/01/28
Rev: B

History of changes

Rev	Description	Originator	Date
A	First release	Rock Yang	May 20th, 2024
B	Update the file format	Rock Yang	Feb.13th, 2026

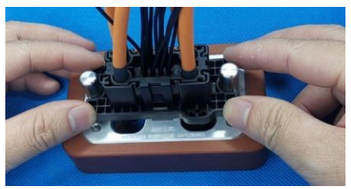
Part 1: Disassembly special tool introduction
第一部分：拆卸专用工具介绍

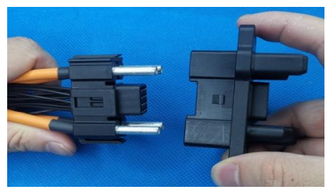
Item 序号	Tool description 工具描述	Tool number 工具料号	Picture 图片	Remarks 备注
1	Back cap un-assembly tool 后盖解锁工具	FX3-0200-001		Tool for removing back cap from connector housing 用来将连接器后盖从外壳中拆卸下来的工具
2	20# signal terminal un-assembly tool 20#信号端子退针工具	TOOL-738651-020		Tool for removing signal terminals from connector back cap 用来将信号端子从连接器后盖中拆卸的工具
3	Reverse tweezers 反向型镊子	/		Tool for removing claw ring from power terminal 用来将卡环从电源端子上拆卸的工具

Part 2: Disassembly methods and steps
第二部分：拆卸方法和步骤

Step 1：Removing back cap from connector housing.

步骤 1：后盖从外壳上取出.



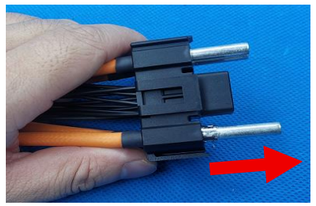


Put the connector on the back cap un-assembly tool and then press the four corners of the connector by hands as show. When you hear a "click" sound, the back cap is unlocked from housing successfully.
如图所示，将连接器放置在后壳解锁工具上，并手按压连接器的四个角。当您听到“咔嚓”声时，即后盖已成功解锁.

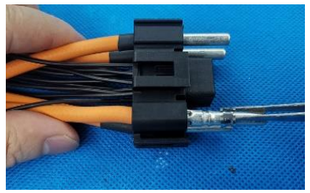
After the back cap is unlocked, hold the harness and pull out the back cap from the housing.
后盖解锁后，握住线束并从外壳中取出

Step 2 ：Removing power terminals from back cap.

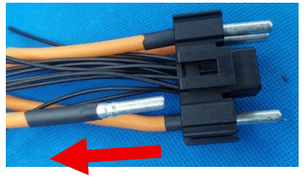
步骤 2：电源端子从后盖中取出.



Push the power cable until the claw ring separate from the back cap as show
如图所示，推动电源线缆至卡环完全从后盖中脱离



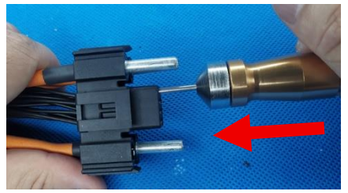
Take out the law ring from power terminal by reverse tweezers as show
如图所示,用反向型镊子将卡环从电源上中取出



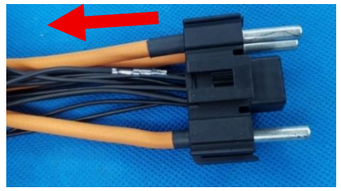
Take out the power cable from back cap as show
如图所示，从后盖中取出电源线缆

Step 3：Removing signal terminals from back cap.

步骤 3：信号端子从后盖上取下.



Put the 20# signal terminal un-assembly tool into the signal terminal hole until the hole bottom as show. When you hear a "click" sound, the signal cable is unlocked from back shell successfully.
如图所示,用 20#信号端子退针工具插入到信号端子孔直到孔底部，当您听到“咔嚓”声时，即信号线已成功解锁.



Take out the signal cable from back cap as show
如图所示，从后盖中取出信号线缆

Notes: The removal method of connector plug and receptacle is the same.
备注：连接器插头与插座的拆卸方法相同.