



YONGGUI Electric Equipment

CD4A/B Series Industrial Connector

CD/IA/E SERIES INDUSTRIAL CONNECTOR

Product Description
2020 Edition

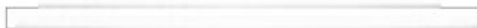


Zhejiang Yonggui Electric Equipment Co., Ltd.

ZHEJIANG YONGGUI ELECTRIC EQUIPMENT CO., LTD.

Yonggui Connector Connector Expert

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

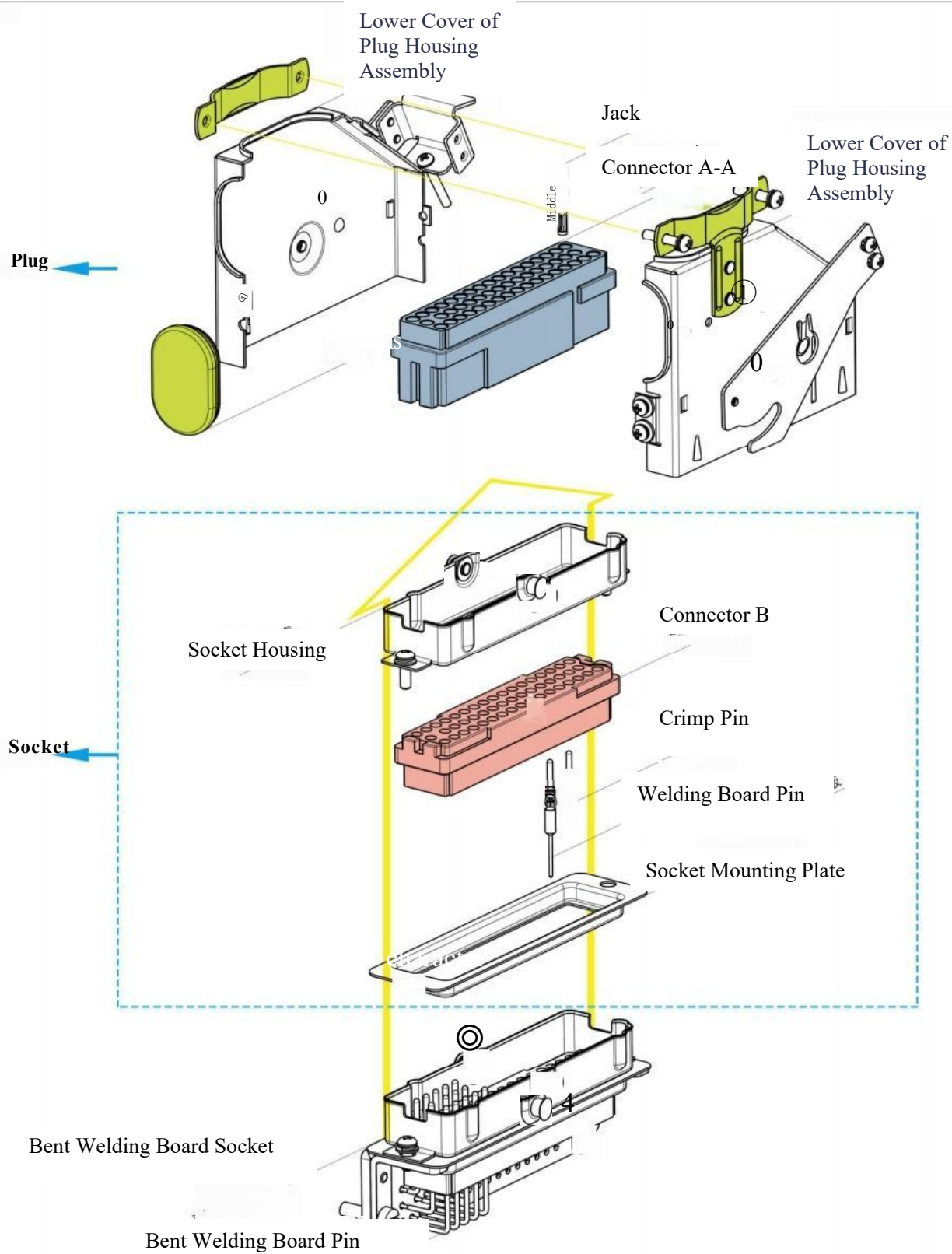


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Product Display

1.1 Product Structure

Product Structure



2 Technical Parameters

Technical Parameters

2.1 Technical Parameters

Technical Parameters

Electrical Parameters

- Rated voltage: $\phi 1.6$ (110 V DC)
 $\phi 2.4$ (250V AC)
- Rated current: $\phi 1.6$ (13 A)
 $\phi 2.4$ (20A)
- Contact resistance: $\phi 1.6 \leq 3\text{m}\Omega$
 $\phi 2.4 \leq 1\text{m}\Omega$
- Insulation resistance: $\geq 5000 \text{ M}\Omega$
- Voltage resistance: $\phi 1.6/50\text{Hz AC} 2000\text{V } 1\text{min.}$
 $\phi 2.4/50\text{Hz AC} 2500\text{V } 1\text{min.}$

Mechanical Parameters

- Mechanical life: ≥ 750 times
- Vibration impact: according to GB/T21563-2008 requirements of Class 1, Level B.

Other Parameters

- Protection class: IP40
- Temperature range: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
- Insulator: Molded plastic;
- Flame retardant rating: UL94-VO and En45545
- Pinhole parts: copper alloy;
- Surface treatment: Au-plated

Implementation Standards

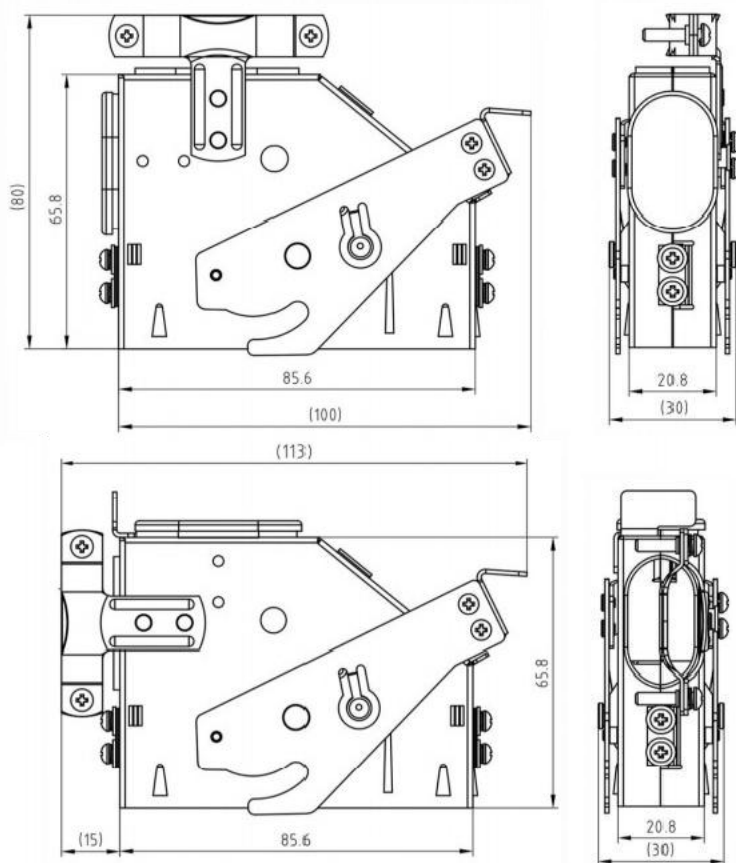
- GB/T 34119 <Electrical Connectors for Rail Transit Rolling Stock>
- Environmental compliance: Rohs

3.1 Plug Type (Crimp Type)

3.1.1 CD4A

Product Type

① Appearance Size



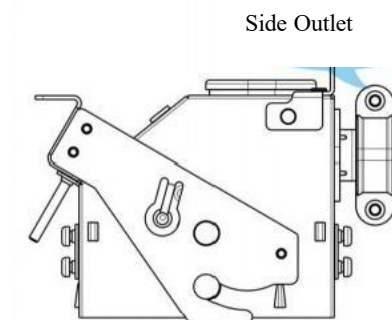
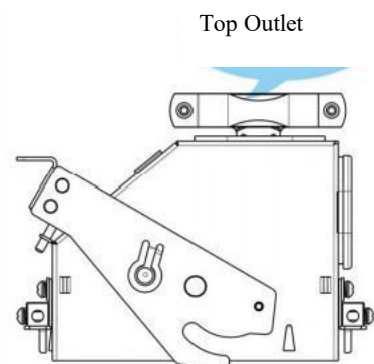
★CD4A No. of Core: 27, 34(8+26), 44 and 50

② List of Models (Pinhole ordered separately, see 3.3 for details). 3.3)

	Core Number	Model Number	Code	Notes
CD4A	27	YGC-CD4A-27TYK	112010103723	Head-hole (top outlet)
		YGC-CD4A-27TWYK	112010103724	Head-hole (side outlet)
		YGC-CD4A-27TYJ	112010103725	Head-pin (top outlet)
		YGC-CD4A-27TWYJ	112010103726	Head-pin (side outlet)
	8+26	YGC-CD4A-34TYK	112010101594	Head-hole (top outlet)
		YGC-CD4A-34TWYK	112010101593	Head-hole (side outlet)
		YGC-CD4A-34TYJ	112010103727	Head-pin (top outlet)
		YGC-CD4A-34TWYJ	112010103728	Head-pin (side outlet)
	44	YGC-CD4A-44TYK	112010101591	Head-hole (top outlet)
		YGC-CD4A-44TWYK	112010101592	Head-hole (side outlet)
		YGC-CD4A-44TYJ	112010103729	Head-pin (top outlet)
		YGC-CD4A-44TWYJ	112010103730	Head-pin (side outlet)
	50	YGC-CD4A-50TYK	112010101245	Head-hole (top outlet)
		YGC-CD4A-50TWYK	112010101246	Head-hole (side outlet)
		YGC-CD4A-50TYJ	112010103731	Head-pin (top outlet)
		YGC-CD4A-50TWYJ	112010103732	Head-pin (side outlet)

★Illustrative Example

① Outlet Method



② Combination



Plug - Hole



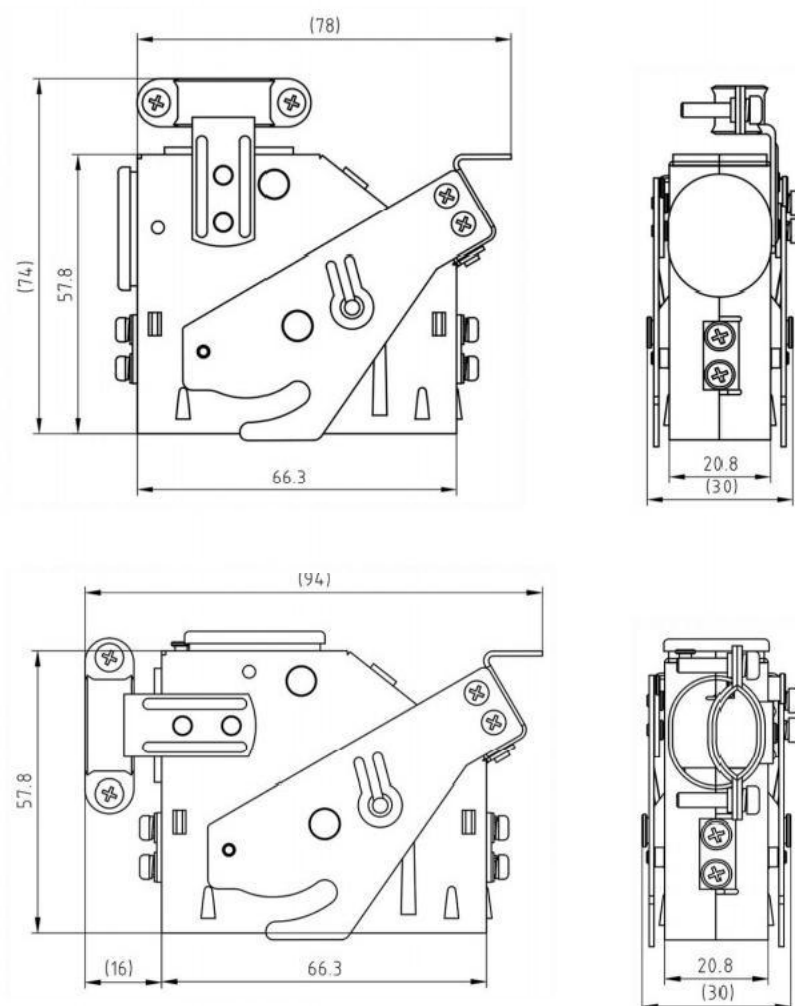
Plug - Pin

3.1 Plug Type (Crimp Type)

3.1.2 CD4B

Product Type

① Appearance Size



★CD4B Number of cores: 30, 44

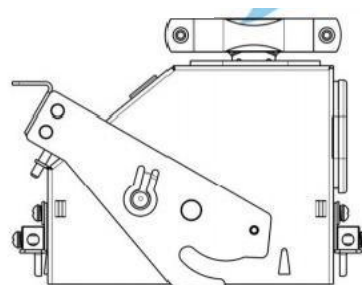
② Model list (pinholes are ordered separately, see 3 . 3)

CD4B	30	YGC-CD4B-30TYK	112010101629	Head-hole (outlet)
		YGC-CD4B-30TWYK	112010101598	Head-hole (side outlet)
		YGC-CD4B-30TYJ	112010103733	Head-pin (outlet)
		YGC-CD4B-30TWYJ	112010103734	Head-pin (side outlet)
	44	YGC-CD4B-44TYK	112010101627	Head-hole (outlet)
		YGC-CD4B-44TWYK	112010101628	Head-hole (side outlet)
		YGC-CD4B-44TYJ	112010103735	Head-pin (outlet)
		YGC-CD4B-44TWYJ	112010103736	Head-pin (side outlet)

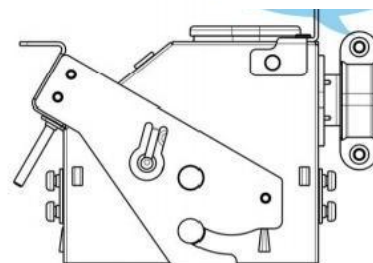
★Illustrative Example

① Outlet Method

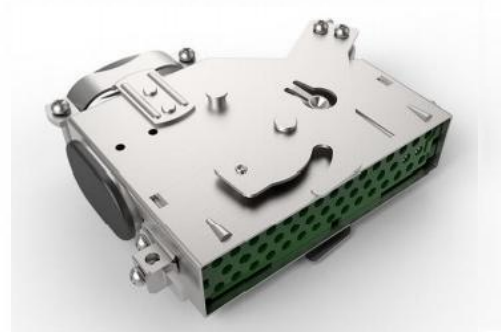
Top Outlet



Side Outlet



② Combination



Plug - Hole



Plug - Pin

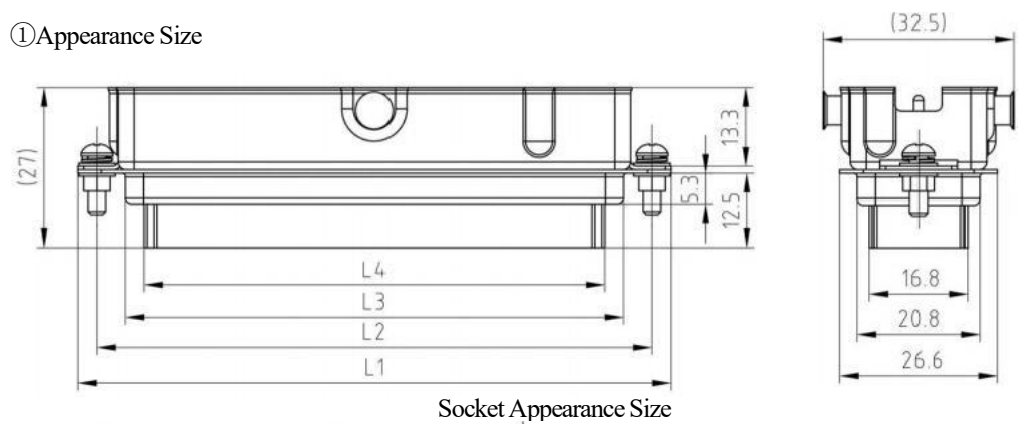
3 Model Summary

3.2 Socket Type

3.2.1 Crimped Socket

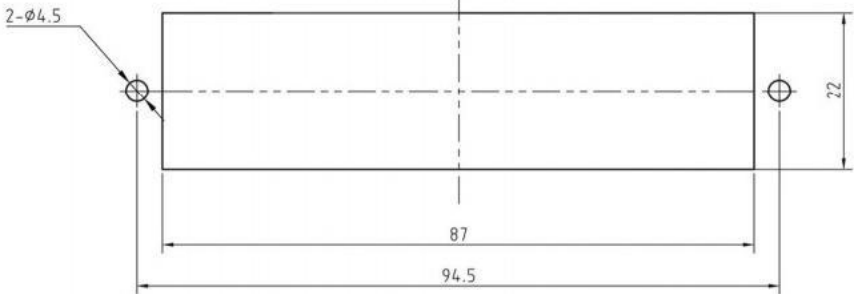
Product Type

① Appearance Size

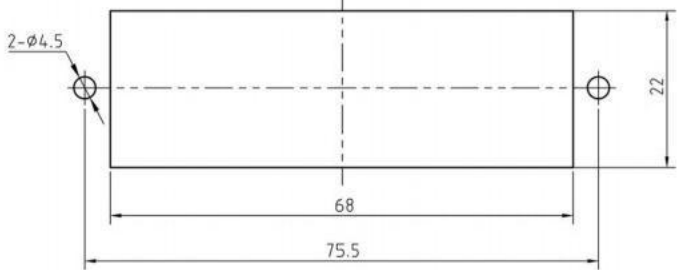


	L1	L2	L3	L4
CD4A	101	94.5	84.8	78.4
CD4B	82	75.5	65.6	58.8

Socket Appearance Size



Mounting Opening Dimensions-CD4A



Mounting Opening Size CD4D

② Crimped Socket Model (pinhole ordered separately, see 3.3 for details)

	Core Number	Model Number	Code	Notes
CD4A	27	YGC-CD4A-27ZYJ	112020104137	Socket-Pin
		YGC-CD4A-27ZYK	112020104138	Socket-Hole
	8+26	YGC-CD4A-34ZYJ	112010101597	Socket-Pin
		YGC-CD4A-34ZYK	112020104139	Socket-Hole
	44	YGC-CD4A-44ZYJ	112020101810	Socket-Pin
		YGC-CD4A-44ZYK	112020104140	Socket-Hole
	50	YGC-CD4A-50ZYJ	112020101413	Socket-Pin
		YGC-CD4A-50ZYK	112020104141	Socket-Hole
CD4B	30	YGC-CD4B-30ZYJ	112020101843	Socket-Pin
		YGC-CD4B-30ZYK	112020104142	Socket-Hole
	44	YGC-CD4B-44ZYJ	112020101842	Socket-Pin
		YGC-CD4B-44ZYK	112020104143	Socket-Hole

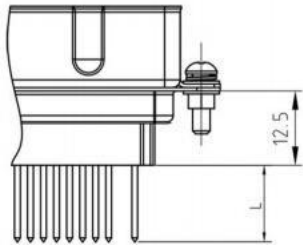
3 Model Summary

3.2 Socket Type

3.2.2 Welding Board Socket

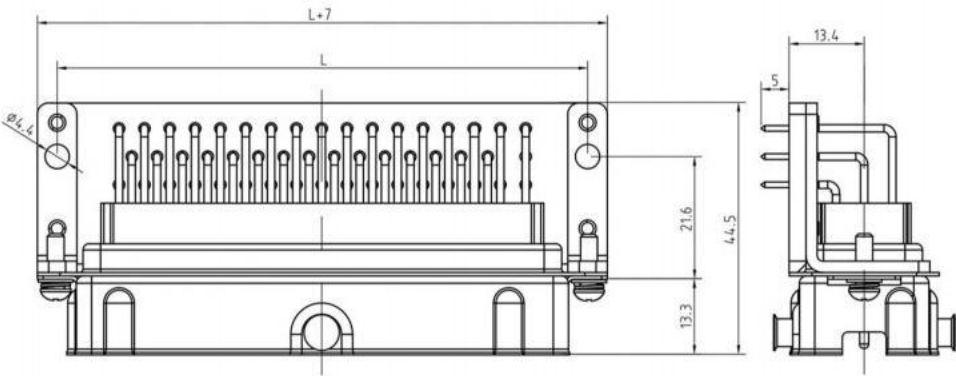
Product Type

① Appearance Size



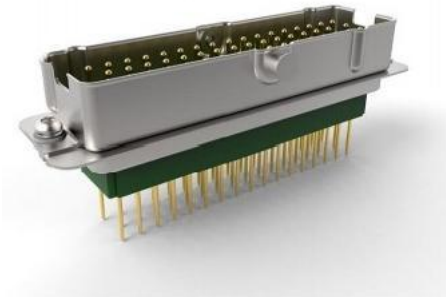
	L	Note
CD4A	7	Other length can be customized
CD4B	12	

Appearance Size of Straight Welding Board



	L
CD4A	94.5
CD4B	75.5

Bent Welding Board Appearance Size



Straight Welding Board Appearance



Bent Welding Board Appearance

②Welding Board Type Socket Model (Straight Type Welding Board Pins are ordered separately, see 3.3-5 for details)

	Core Number	Model Number	Code	Notes
CD4A	27	YGC-CD4A-27ZBJ	112020104144	Straight - Welding Board Pins
		YGC-CD4A-27ZWJ	112020104145	Bent-Welding Board Pins
	8+26	YGC-CD4A-34ZBJ	112020104146	Straight - Welding Board Pins
		YGC-CD4A-44ZBJ	112020104147	Straight - Welding Board Pins
	44	YGC-CD4A-44ZWJ	112020104148	Bent-Welding Board Pins
		YGC-CD4A-50ZBJ	112020102314	Straight - Welding Board Pins
CD4B	30	YGC-CD4A-50ZWJ	112020104149	Bent-Welding Board Pins
		YGC-CD4B-30ZBJ	112020102292	Straight - Welding Board Pins
	44	YGC-CD4B-30ZWJ	112020104150	Bent-Welding Board Pins
		YGC-CD4B-44ZBJ	112020104151	Straight - Welding Board Pins
		YGC-CD4B-44ZWJ	112020104152	Bent-Welding Board Pins

3 Model Summary

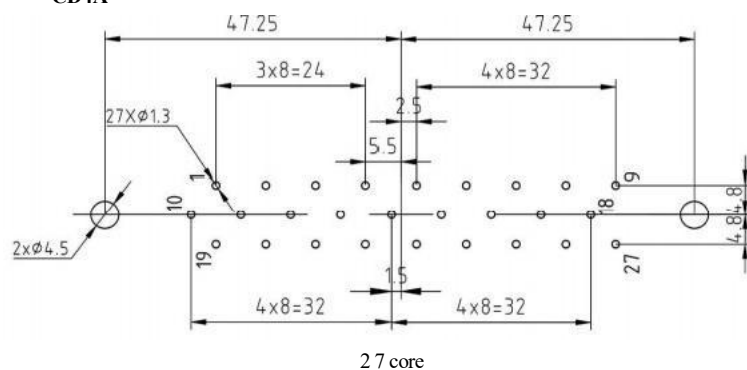
3.2 Welding Board Socket

3.2.2 Welding Board Socket Type

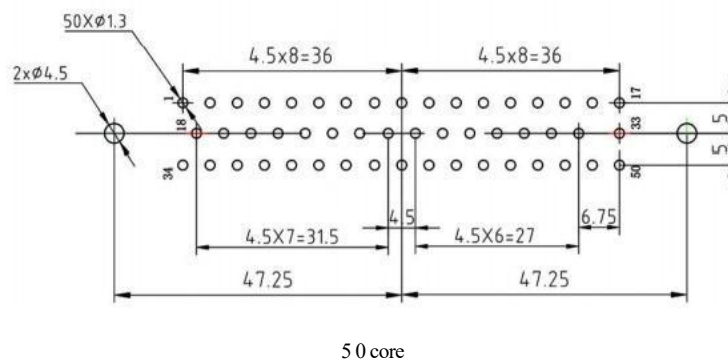
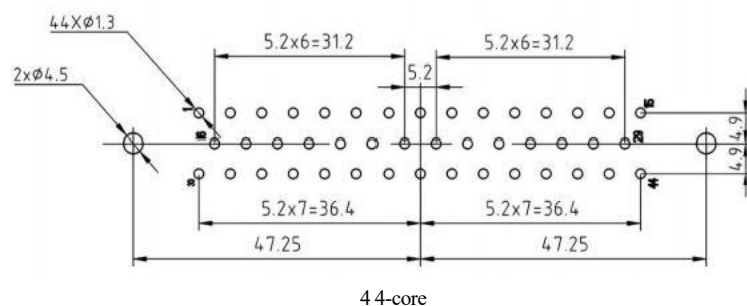
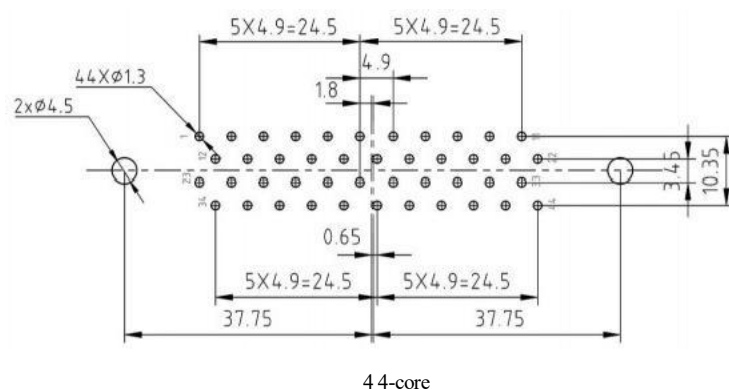
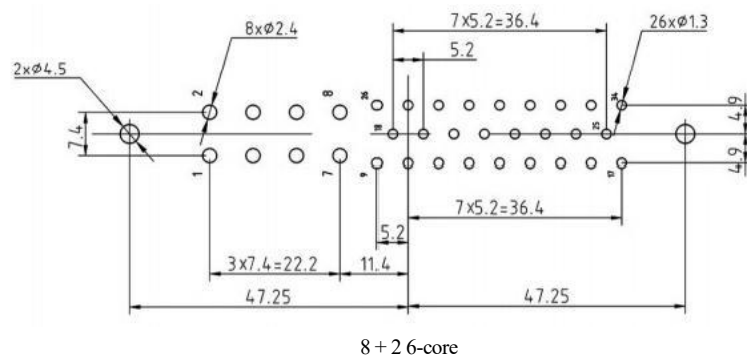
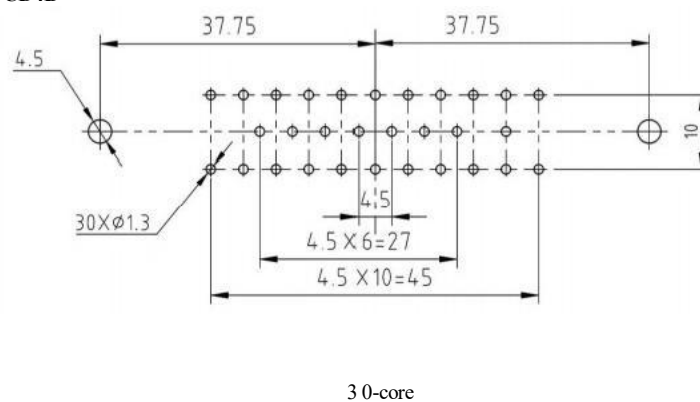
Product Type

③Printed Circuit Board Welding Hole Size

CD4A



CD4B



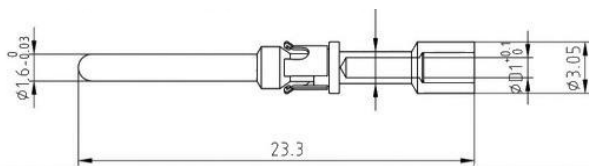
3 Model Summary

3.3 Pin and Jack Type

3.3.1 Pins and Jacks

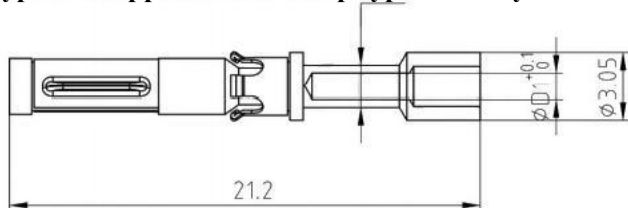
Product Type

φ1.6Crimp Pin-applicable to crimp type with any number of cores



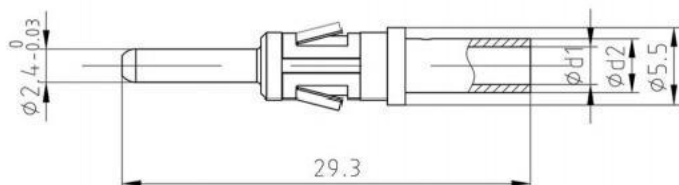
Product Name	Product Number	D1	D2	Wire Specification mm ²	Corresponding AWG Specifications
Pin Assembly (φ1.6)	113020100610	1.2	1.9	0.2-0.5	24#-20#
	113020100611	1.4	2.6	0.75-1.0	18#
	113020100612	1.7	2.8	1.5	16#
	113020100613	2.1	2.9	2.0	14#

②φ1.6 crimp type hole-applicable to crimp type with any number of cores



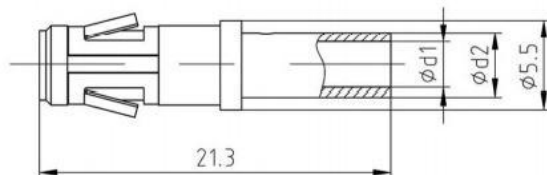
Product Name	Product Number	D1	D2	Wire Specification mm ²	Corresponding AWG Specifications
Jack Assembly (φ1.6)	113020600835	1.2	1.9	0.2-0.5	24#-20#
	113020600836	1.4	2.6	0.75-1.0	18#
	113020600837	1.7	2.8	1.5	16#
	113020600838	2.1	2.9	2.0	14#

③φ2.4 crimp type pin-applicable to 8+26 core crimp type



Product Name	Product Number	D1	D2	Wire Specification mm ²	Corresponding AWG Specifications
Pin assembly (φ2.4)	113020100313	1.8	3.0	1.5	16#-20#
	113020100314	2.3	3.4	2.5	14#
	113020100315	2.9	4.0	4	12#

④φ2.4 crimp type hole-for 8+26 core crimp type



Product Name	Product Number	D1	D2	Wire Specification mm ²	Corresponding AWG Specifications
Socket assembly (φ2.4)	113020600453	1.8	3.0	1.5	16#
	113020600454	2.3	3.4	2.5	14#
	113020600455	2.9	4.0	4	12#

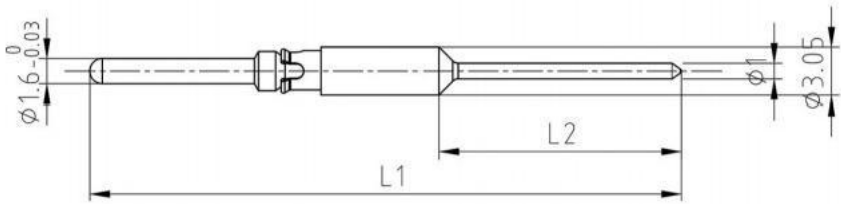
3 Model Summary

3.3 Pin and Jack Type

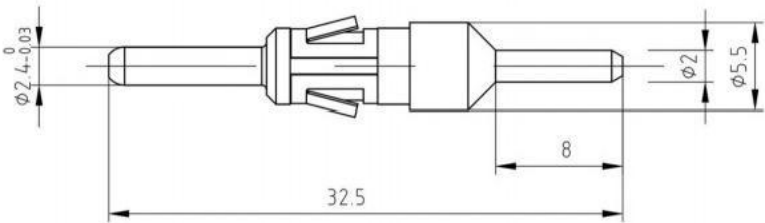
3.3.1 Pins and Jacks

Product Type

⑤Welding Board Type Pins (already fitted with straight welding board sockets or can be ordered separately)



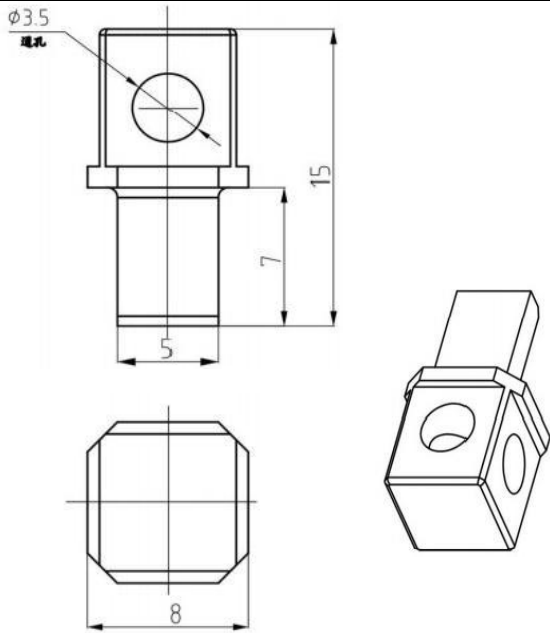
Product Name	Product Number	L1	L2	Note
φ1.6 Welding Board pin	113020100794	33	10.5	For 8+26 cores
	113020100847	38	15.5	For other number of cores



3.4 Accessories - coding pins (for occasions where misinsertion is required)

Product Type

①Plug coding pin



★ Plug coding pin code: 113049800038 (Extension screw for mounting included)

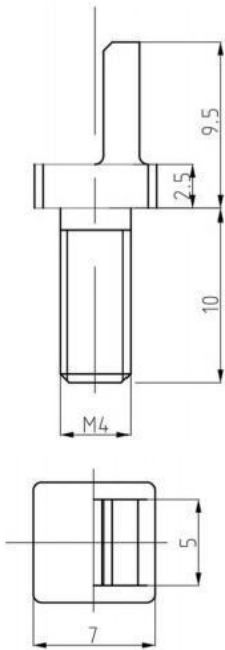
3 Model Summary

3.4 Accessories

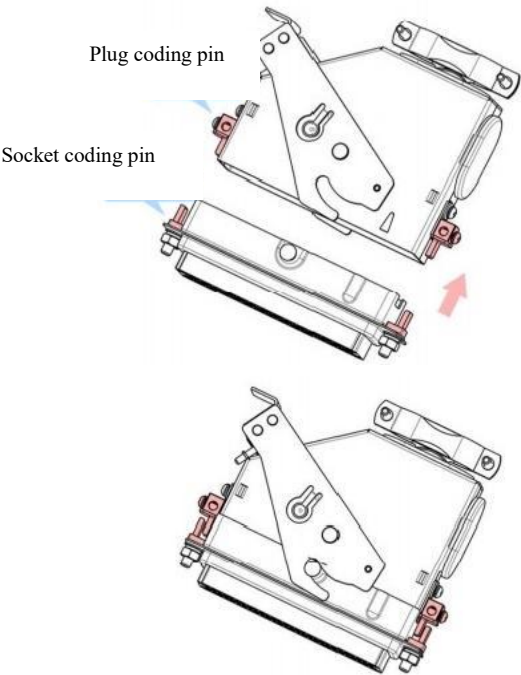
3.4.1 Coding pins

Product Type

②Socket coding pins



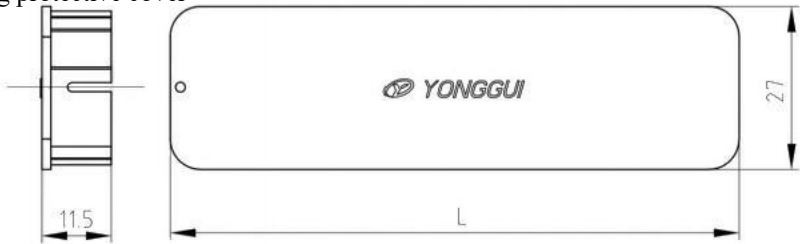
Socket coding pin code: 114039801233



3.4.2 Protective Cover

Product Type

①Plug protective cover

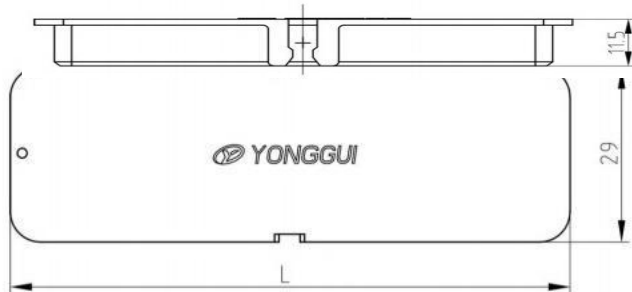


Product Name	Product Number	L	Applicable
Plug protective cover	114069800173	94	CD4A Plug
	114069800975	75	CD4B Plug

Plug protective cover



②Socket Protective Cover



Product Name	Product Number	L	Applicable
Socket Protective Cover	114069800191	93	CD4A Socket
	114069800976	73.5	CD4B Socket

Socket Protective Cover



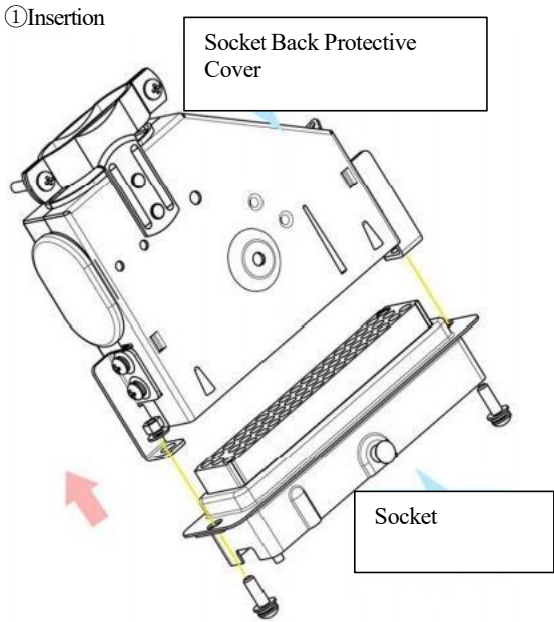
3 Model Summary

3.4 Accessories

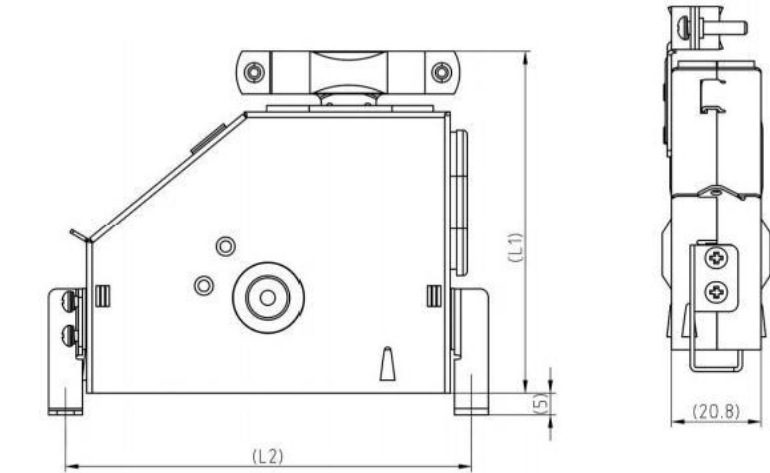
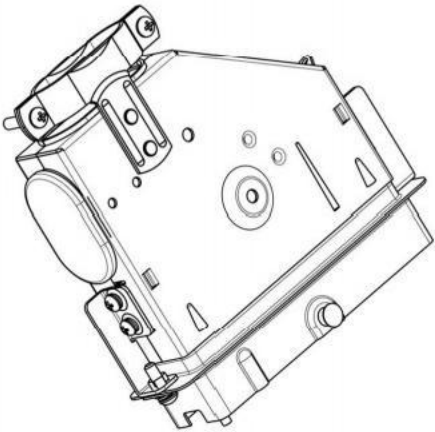
Socket Back Protective Cover

3.4.3 (for tail wire fixing of unscrewed sockets)
Product Type

★Use Instructions



②Insertion state



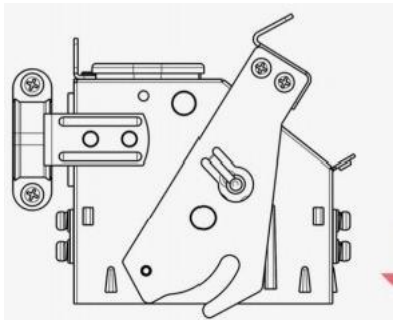
Product Name	Product Number	L1	L2	note
Socket Back Cover	113039800637	80	94.5	For CD4A socket
	113039800956	74	75.5	For CD4B socket

4 Installation and Precautions

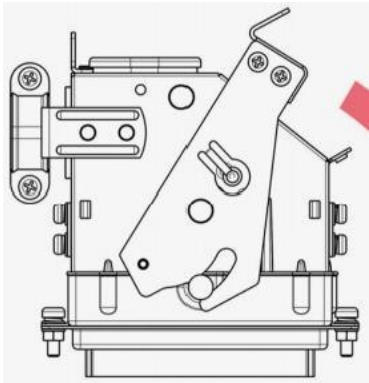
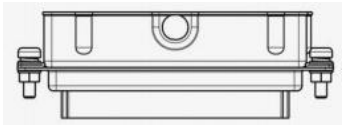
Installation and Precautions

4.1 Installation Steps

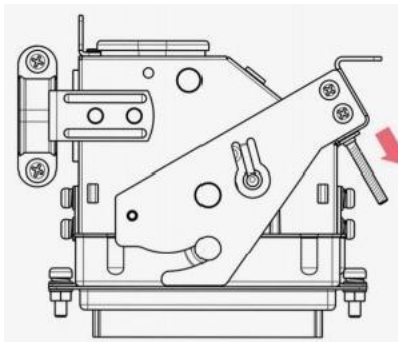
Installation Steps



Insertion



Lock



State of Insertion

Screw Fastening

4.2 Specialized Tool Models

① Dismantling Tools

Contact Specification	Disassembly Tool Model
φ1.6	RT-3B
φ2.4	RTSCA-04

② Crimping Tools

Contact Specification	Tool Specifications	Note
φ1.6	DMC Crimp Plier (M22520/1-01)	Applicable crimp wire range: 0.5-2.0 mm²
	YG774 Positioner (φ1.6)	
φ2.4	YXQ-04	Applicable crimp wire range: 1.5-4.5 mm²
	YG126 Positioner (φ2.4)	

Yonggui Connector

Connector Expert



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