



CHD

Connector Heavy Duty

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Presenting our ruggedized heavy-duty connector, meticulously crafted for electric vehicles, ensuring steadfast reliability in challenging conditions.

Our durable designs are tailored to excel in extreme settings, capable of withstanding strong vibrations and repelling water and dust.

CHD10: 10mm contact size, 1500VDC, 300A Max.

CHD14: 14mm contact size, 1500VDC, 500A Max.

Resistant to Impacts & Shocks in Extreme Conditions



Unmated Sockets meeting the IP67 Grade



Made of Corrosion-Resistant Materials



360° Plug Insertion Feature for Easy Installation



CHD10

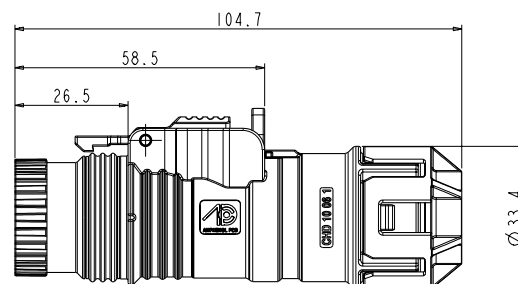
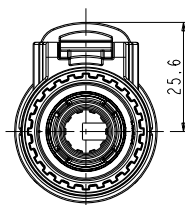
Aluminum alloy housing
Contacts: copper alloy, silver plating

Specifications

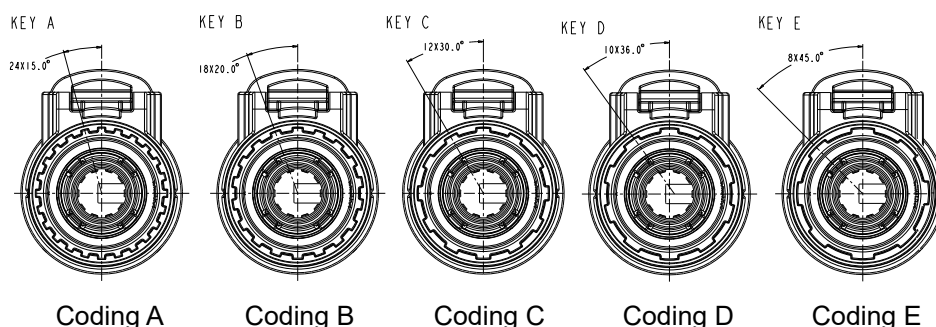


Current rate (35mm ² shield cable):	150A@ ambient temp. 70°C
Current rate (50mm ² shield cable):	200A@ ambient temp. 70°C
Current rate (70mm ² shield cable):	300A@ ambient temp. 70°C
Current rate (95mm ² shield cable):	330A@ ambient temp. 70°C
Rating voltage:	1500V DC
Operating temperature:	-40 to 125°C
Salt spray :	500h / 720h / 1500h
Durability:	50 cycles
Shielding:	Yes
Waterproof (mated):	IP67, IP6K9K
(Unmated socket):	IP67
Touch-proof:	IP2XB
Ambient temperature:	-40 to 70°C
Cable standard:	LV216 / H&S
Standards:	USCAR-2 / 37

Plug



Codings



Coding A

Coding B

Coding C

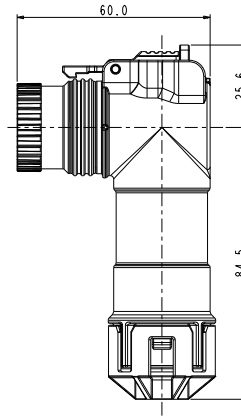
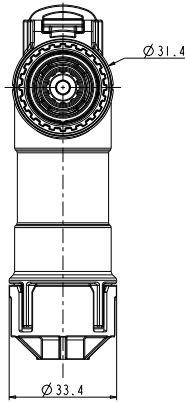
Coding D

Coding E

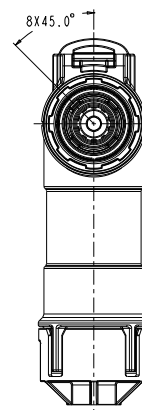
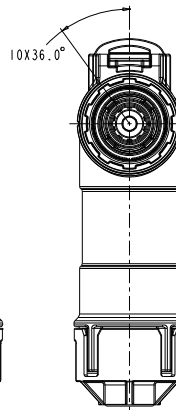
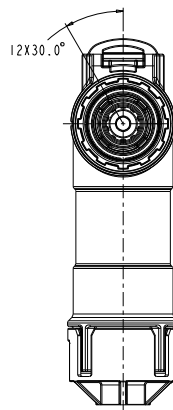
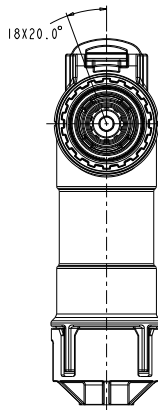
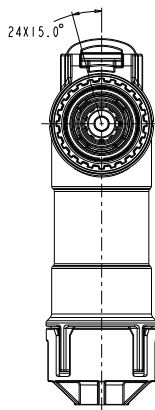
How to order:

CHD	10	06	1	X	1	XX
				A: Coding A	HVIL	01: 70mm ² (LV216) Wire OD: 17.8 ± 0.4mm
				B: Coding B		02: 50mm ² (LV216) Wire OD: 15.5 ± 0.3mm
				C: Coding C		03: 70mm ² (H&S) Wire OD: 17.0 ± 0.3mm
				D: Coding D		04: 50mm ² (H&S) Wire OD: 14.9 ± 0.3mm
				E: Coding E		05: 35mm ² (H&S) Wire OD: 12.7 ± 0.3mm
						06: 35mm ² (LV216) Wire OD: 14.1 ± 0.3mm
						07: 95mm ² (LV216) Wire OD: 20.9 ± 0.8mm

Right-angle Plug



Codings



Coding A

Coding B

Coding C

Coding D

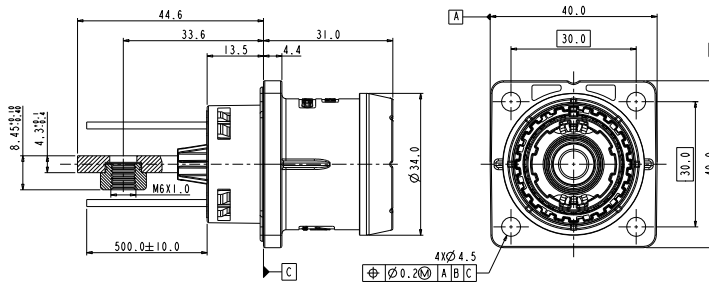
Coding E

How to order:

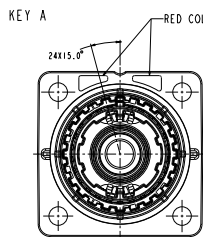
CHD	10	08	1	X	1	XX
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A: Coding A D: Coding D HVIL 01: 70mm² (LV216) | Wire OD: 17.8 ± 0.4mm 05: 35mm² (H&S) | Wire OD: 12.7 ± 0.3mm
 B: Coding B E: Coding E 02: 50mm² (LV216) | Wire OD: 15.5 ± 0.3mm 06: 35mm² (LV216) | Wire OD: 14.1 ± 0.3mm
 C: Coding C 03: 70mm² (H&S) | Wire OD: 17.0 ± 0.3mm 07: 95mm² (LV216) | Wire OD: 20.9 ± 0.8mm
 04: 50mm² (H&S) | Wire OD: 14.9 ± 0.3mm

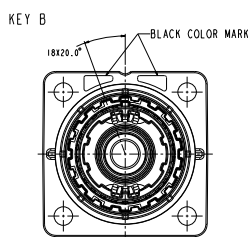
Receptacle



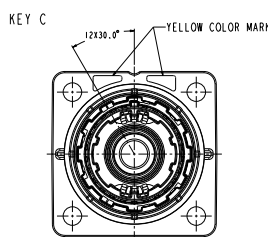
Codings



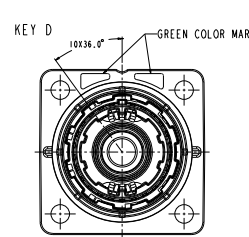
Coding A



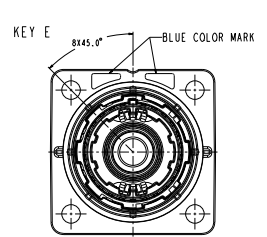
Coding B



Coding C



Coding D



Coding E

How to order:

CHD	10	02	1	X	X	01
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A: Coding A D: Coding D 0: Without HVIL
 B: Coding B E: Coding E 1: Wit HVIL
 C: Coding C

CHD10B

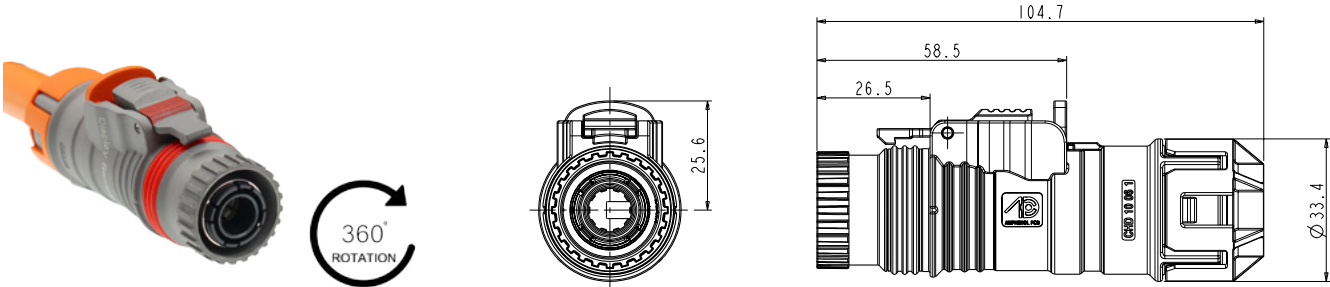
Aluminum alloy housing
Contacts: copper alloy, silver plating

Specifications

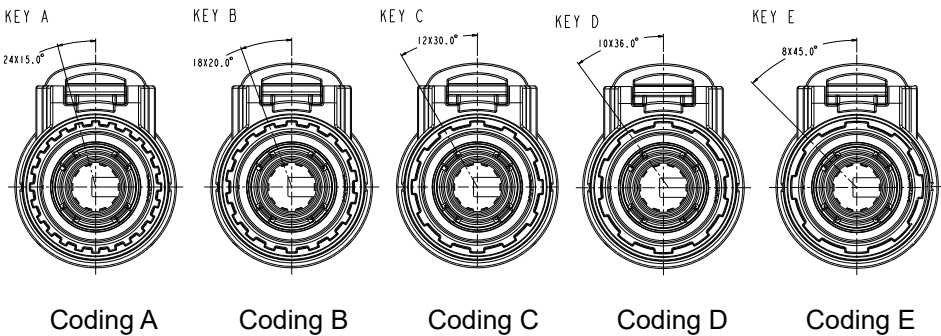


Current rate (35mm² shield cable):	150A@ ambient temp. 70°C
Current rate (50mm² shield cable):	200A@ ambient temp. 70°C
Current rate (70mm² shield cable):	300A@ ambient temp. 70°C
Current rate (95mm² shield cable):	330A@ ambient temp. 70°C
Rating voltage:	1500V DC
Operating temperature:	-40 to 125°C
Salt spray :	720h / 1500h
Durability:	50 cycles
Shielding:	Yes
Waterproof (mated):	IP67, IP6K9K
(Unmated socket):	IP67
Touch-proof:	IP2XB
Ambient temperature:	-40 to 70°C
Cable standard:	LV216 / H&S
Standards:	USCAR-2 / 37

Plug



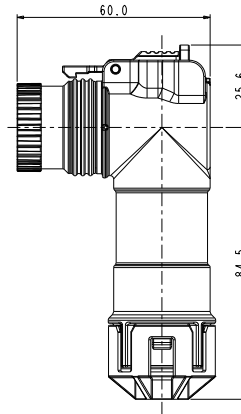
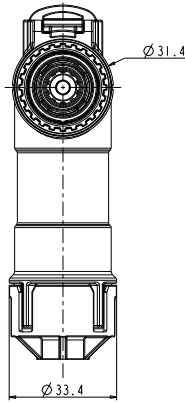
Codings



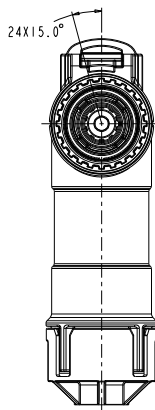
How to order:

CHD	10B	06	1	X	1	XX
				A: Coding A B: Coding B C: Coding C D: Coding D E: Coding E F: Coding F	HVIL	01: 70mm² (LV216) Wire OD: 17.8 ± 0.4mm 02: 50mm² (LV216) Wire OD: 15.5 ± 0.3mm 03: 70mm² (H&S) Wire OD: 17.0 ± 0.3mm 04: 50mm² (H&S) Wire OD: 14.9 ± 0.3mm 05: 35mm² (H&S) Wire OD: 12.7 ± 0.3mm 06: 35mm² (LV216) Wire OD: 14.1 ± 0.3mm 07: 95mm² (LV216) Wire OD: 20.9 ± 0.8mm

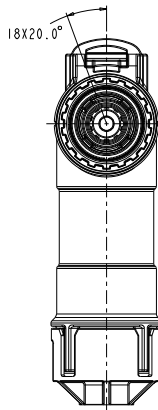
Right-angle Plug



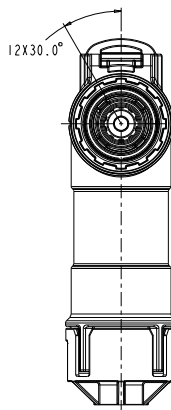
Codings



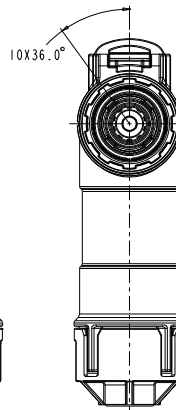
Coding A



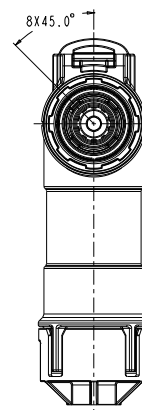
Coding B



Coding C



Coding D



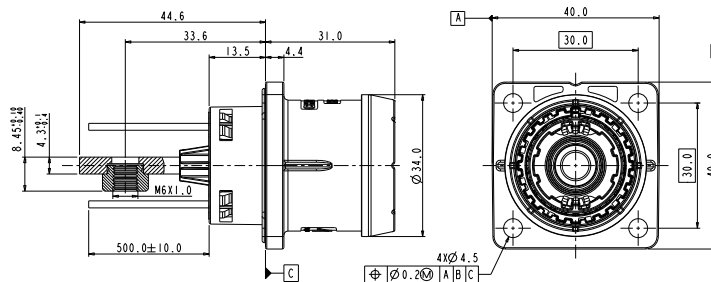
Coding E

How to order:

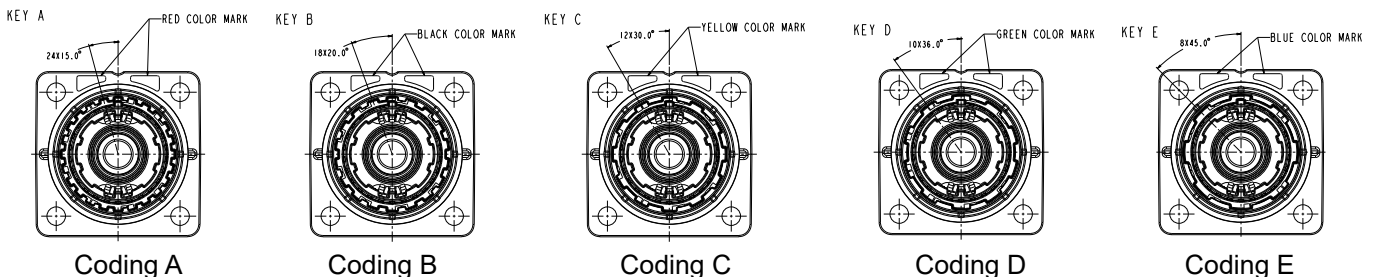
CHD	10B	08	1	X	1	XX
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A: Coding A D: Coding D HVIL 01: 70mm² (LV216) | Wire OD: 17.8 ± 0.4mm 05: 35mm² (H&S) | Wire OD: 12.7 ± 0.3mm
 B: Coding B E: Coding E 02: 50mm² (LV216) | Wire OD: 15.5 ± 0.3mm 06: 35mm² (LV216) | Wire OD: 14.1 ± 0.3mm
 C: Coding C F: Coding F 03: 70mm² (H&S) | Wire OD: 17.0 ± 0.3mm 07: 95mm² (LV216) | Wire OD: 20.9 ± 0.8mm
 04: 50mm² (H&S) | Wire OD: 14.9 ± 0.3mm

Receptacle



Codings



Coding A

Coding B

Coding C

Coding D

Coding E

How to order:

CHD	10B	02	1	X	X	01
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A: Coding A D: Coding D 0: Without HVIL
 B: Coding B E: Coding E 1: Wit HVIL
 C: Coding C F: Coding F

CHD10B

Aluminum alloy housing

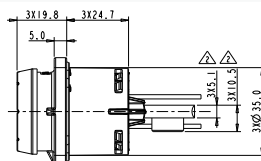
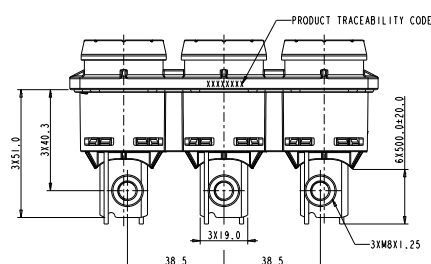
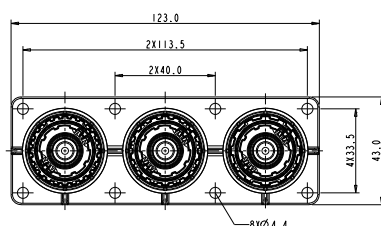
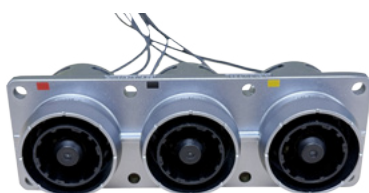
Contacts: copper alloy, silver & tin plating

Specifications

Current rate (35mm ² shield cable):	330A@ ambient temperature 70°C	Shielding:	Yes
Rating voltage:	1500V DC	Waterproof (mated):	IP67, IP6K9K
Operating temperature:	-40 to 125°C	(unmated socket):	IP67
Salt spray:	720h Min	Touch-proof:	IP2XB
Durability:	50 cycles Min	Ambient temperature:	-40 to 70°C

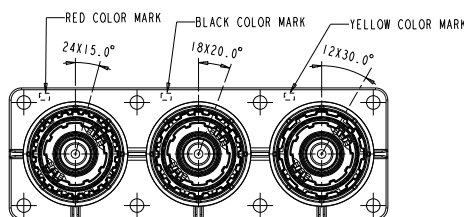
Receptacle

CHD	10B	02	3	A	1	XX
A: coding A + coding B + coding C					1: with HVIL 0: without HVIL	01: M8 X 1.25 Busbar

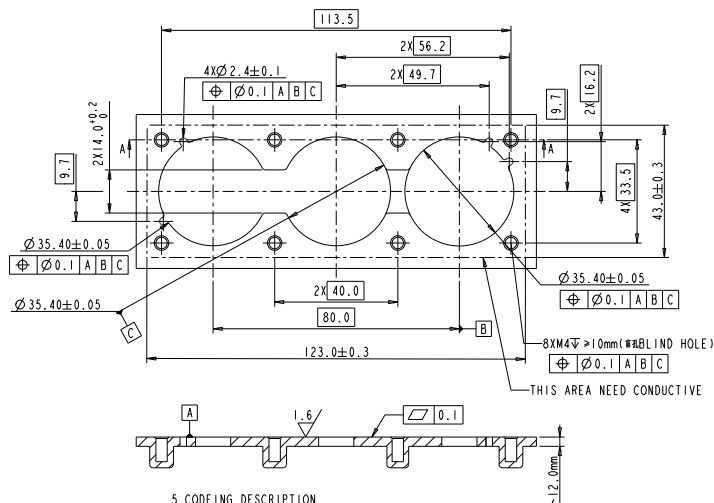


Panel Mounting

KEY POSITIONS AND EMBOSING AREAS



PANEL SPECIFICATION



CHD10C

Aluminum alloy housing

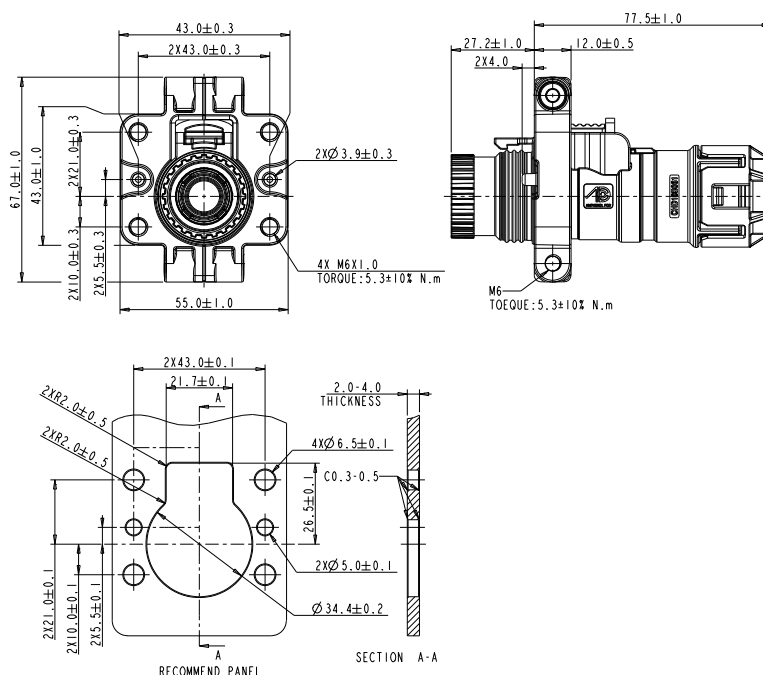
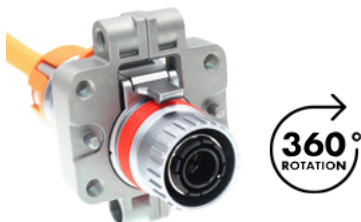
Contacts: copper alloy, silver & tin plating

Specifications

Current rate (50mm ² shield cable):	200A@ ambient temperature 70°C	Durability:	50 cycles Min
Current rate (70mm ² shield cable):	300A@ ambient temperature 70°C	Shielding:	Yes
Rating voltage:	1500V DC	Waterproof (mated):	IP67, IP6K9K
Operating temperature:	-40 to 125°C	(unmated socket):	IP67
Salt spray:	720h Min	Touch-proof:	IP2XB
RoHS & REACH	Yes	Ambient temperature:	-40 to 70°C

Plug

CHD	10C	06	1	X	1	XX
				A: coding A	1: with HVIL	01: 70mm ² Wire OD: 17.8 ± 0.4mm (LV216)
				B: coding B		02: 50mm ² Wire OD: 15.5 ± 0.3mm (LV216)

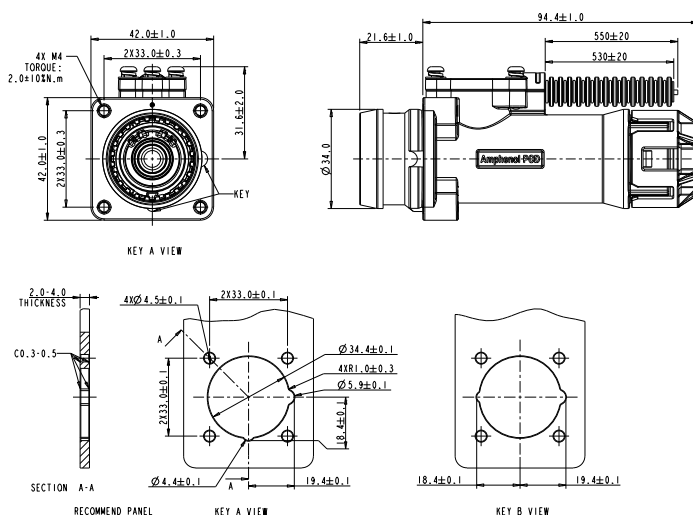


Receptacle

CHD	10C	01	1	X	1	XX
				A: coding A	1: with HVIL	01: 70mm ² Wire OD: 17.8 ± 0.4mm (LV216)
				B: coding B		02: 50mm ² Wire OD: 15.5 ± 0.3mm (LV216)



UNMATED SOCKET:
IP67



CHD14

1 PIN STRAIGHT PLUG

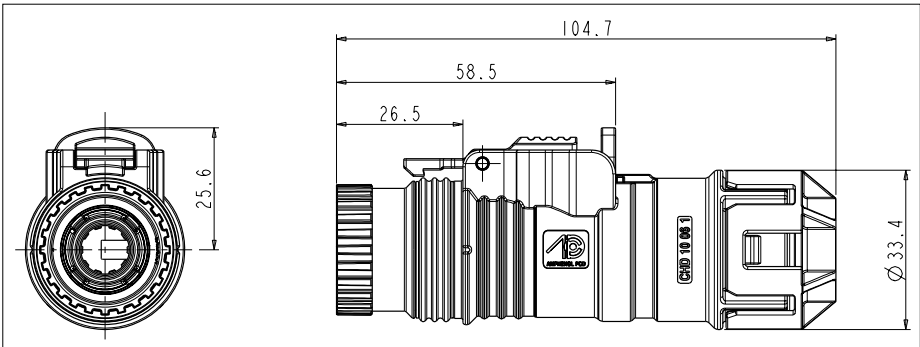
Aluminum alloy housing
Contacts: copper alloy, silver plating

Specifications

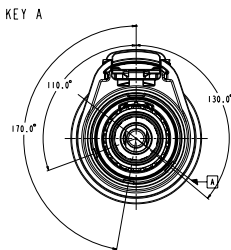


Current rate (70mm ² shield cable):	300A@ ambient temp. 70°C
Current rate (95mm ² shield cable):	350A@ ambient temp. 70°C
Current rate (120mm ² shield cable):	430A@ ambient temp. 70°C
Current rate (150mm ² shield cable):	500A@ ambient temp. 70°C
Rating voltage:	1500V DC
Operating temperature:	-40 to 125°C
Salt spray :	500h / 720h / 1500h
Durability:	50 cycles
Shielding:	IP67, IP6K9K
Waterproof (mated):	IP67
Touch-proof:	IP2XB
Ambient temperature:	-40 to 70°C
Cable standard:	LV216 / H&S
Standards:	USCAR-2 / 37

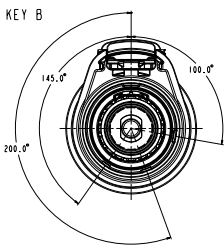
Plug



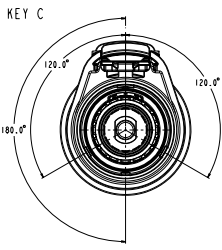
Codings



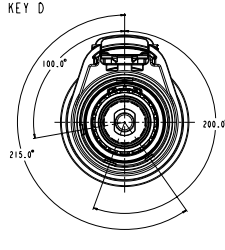
Coding A



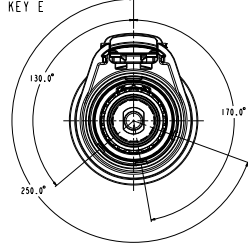
Coding B



Coding C



Coding D



Coding E

How to order:

CHD	14	06	1	X	1	XX
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A: Coding A D: Coding D 0: without HVIL 01: 150mm² | Wire OD: 24.9 ± 0.5mm
B: Coding B E: Coding E 1: with HVIL 02: 120mm² (LV216) | Wire OD: 22.6 ± 0.4mm
C: Coding C 03: 95mm² (LV216) | Wire OD: 20.5 ± 0.4mm
04: 70mm² (LV216) | Wire OD: 17.8 ± 0.4mm
05: 95mm² (H&S) | Wire OD: 19.9 ± 0.5mm

CHD14 1 PIN 90° PLUG

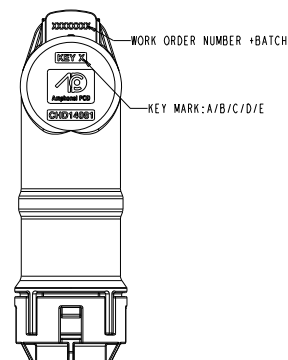
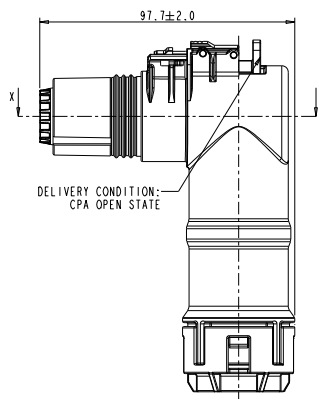
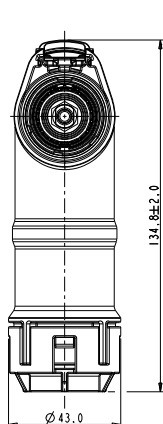
Aluminum alloy housing
Contacts: copper alloy, silver plating

Specifications

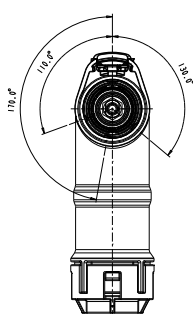


Current rate (70mm ² shield cable):	300A@ ambient temp. 70°C
Current rate (95mm ² shield cable):	350A@ ambient temp. 70°C
Current rate (120mm ² shield cable):	430A@ ambient temp. 70°C
Current rate (150mm ² shield cable):	450A@ ambient temp. 70°C
Rating voltage:	1500V DC
Operating temperature:	-40 to 125°C
Salt spray :	500h / 720h / 1500h
Durability:	50 cycles
Shielding:	IP67, IP6K9K
Waterproof (mated):	IP67
Touch-proof:	IP2XB
Ambient temperature:	-40 to 70°C
Cable standard:	LV216 / H&S
Standards:	USCAR-2 / 37

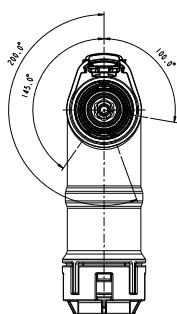
Plug



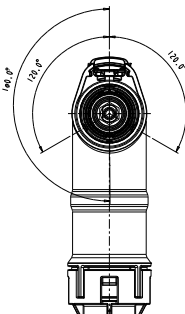
Coding



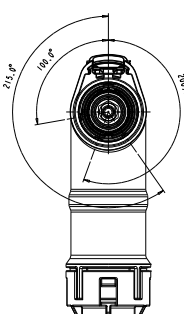
Coding A



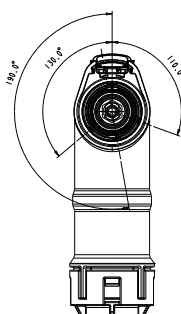
Coding B



Coding C



Coding D



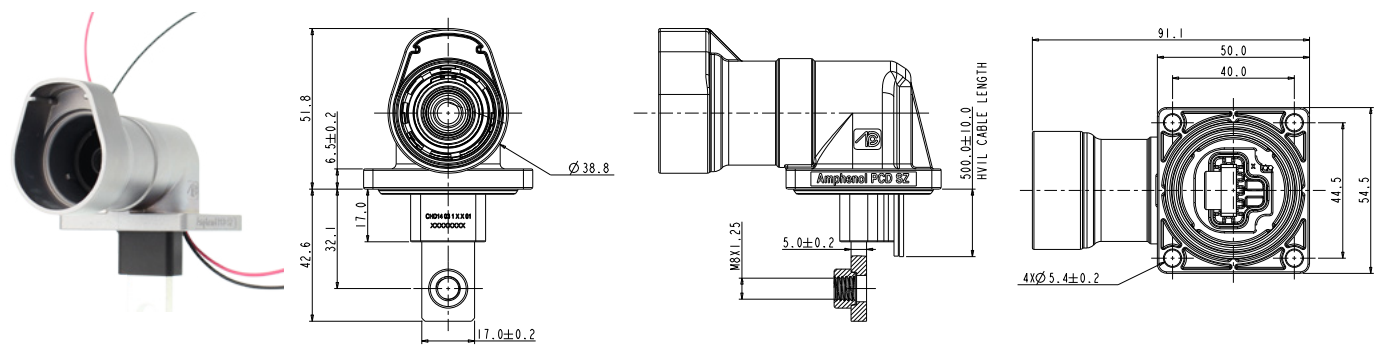
Coding E

How to order:

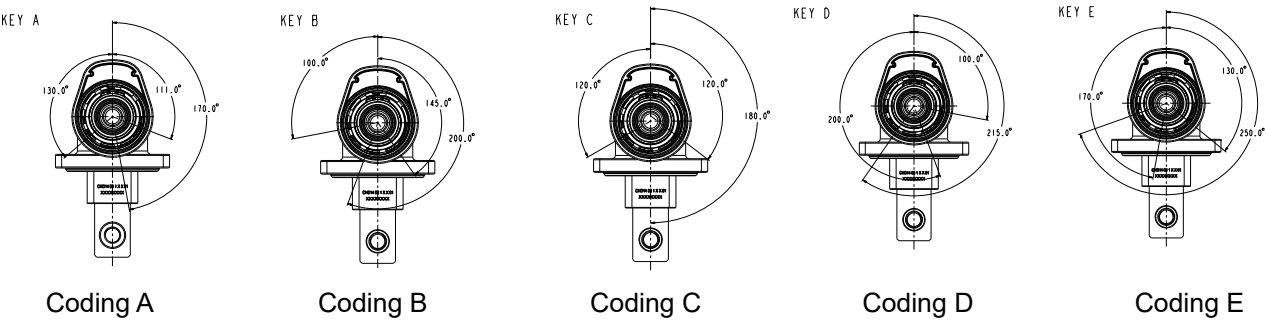
CHD	14	08	1	X	X	XX
-----	----	----	---	---	---	----

A: Coding A D: Coding D 0: without HVIL 01: 150mm²
B: Coding B E: Coding E 1: with HVIL 02: 120mm²
C: Coding C 03: 95mm²
04: 70mm²

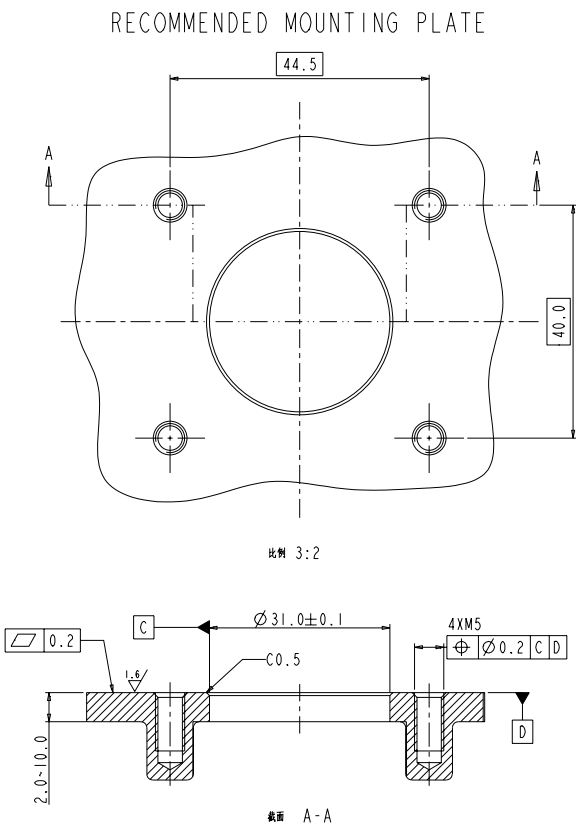
Right-angle Receptacle



Codings



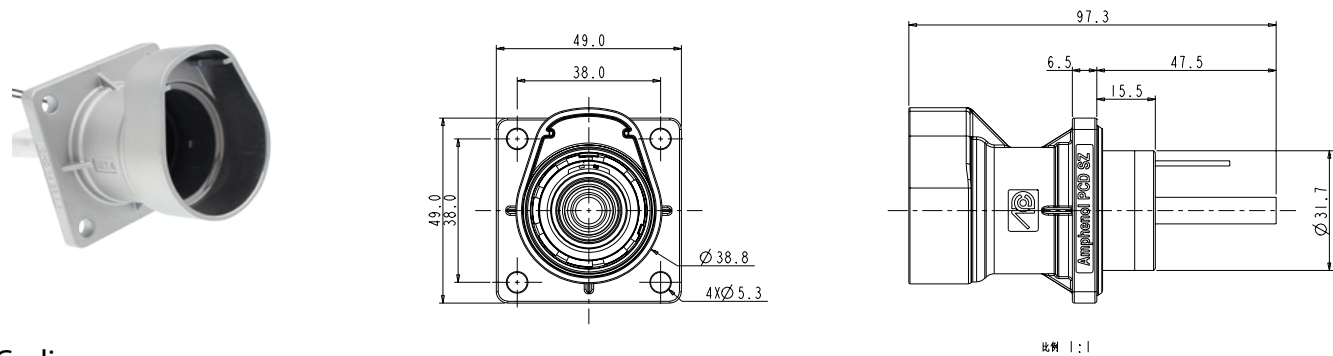
Mounting Dimensions



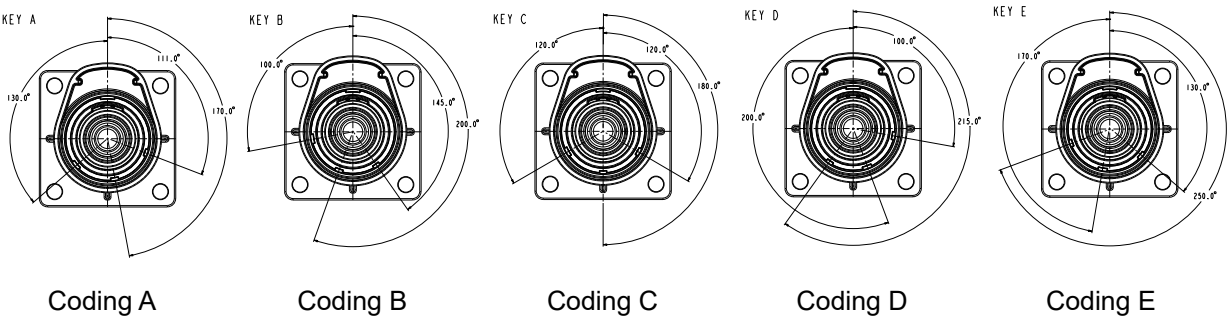
How to order:

CHD	14	03	1	X	X	01
				A: Coding A	0: Without HVIL	
				B: Coding B	1: Wit HVIL	
				C: Coding C		
				D: Coding D		
				E: Coding E		

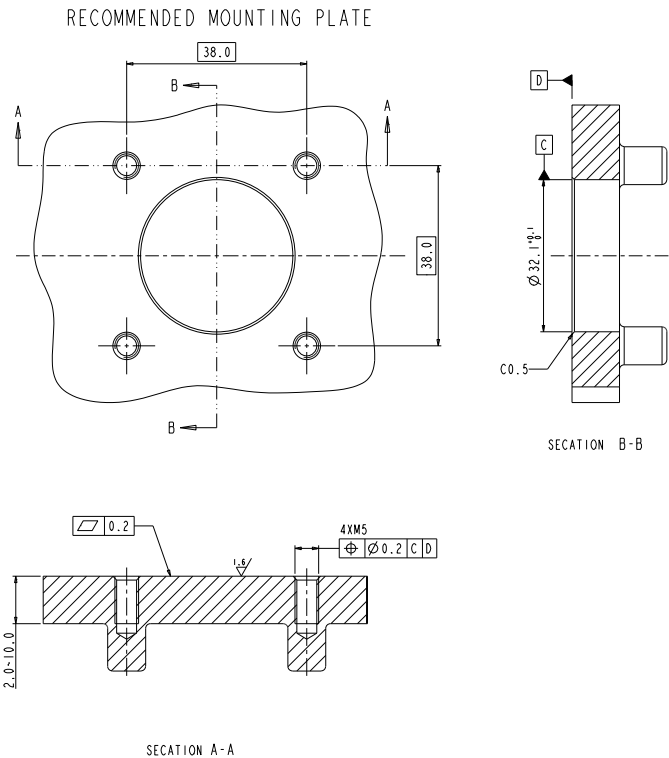
Receptacle



Codings



Mounting Dimensions



How to order:

CHD	14	02	1	X	X	01
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- A: Coding A
B: Coding B
C: Coding C
D: Coding D
E: Coding E
- 0: Without HVIL
1: Wit HVIL

CHD14 (2 PIN)

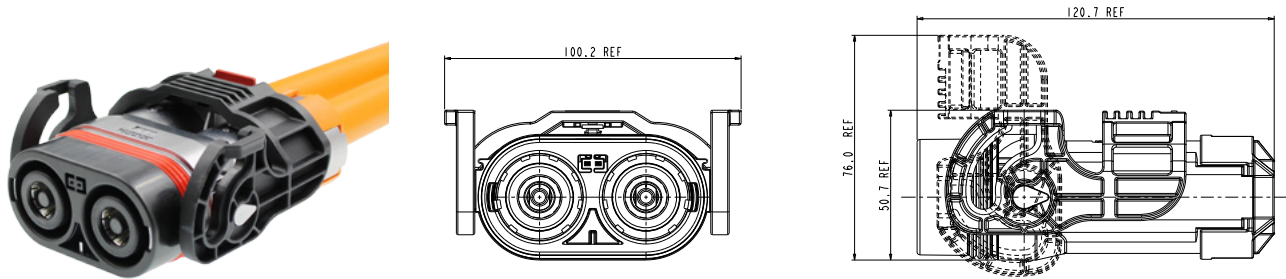
Aluminum alloy housing
Contacts: copper alloy, silver plating

Specifications

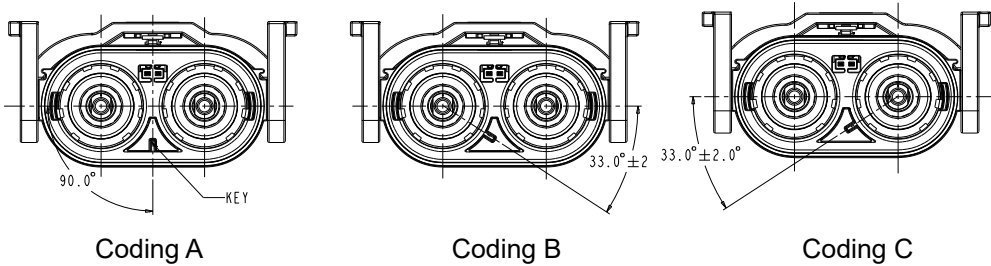


Current rate (70mm ² shield cable):	300A@ ambient temp. 70°C
Current rate (95mm ² shield cable):	350A@ ambient temp. 70°C
Current rate (120mm ² shield cable):	430A@ ambient temp. 70°C
Current rate (150mm ² shield cable):	500A@ ambient temp. 70°C
Rating voltage:	1500V DC
Operating temperature:	-40 to 125°C
Salt spray :	500h / 720h / 1500h
Durability:	50 cycles
Shielding:	Yes
Waterproof (mated):	IP67, IP6K9K
(Unmated socket):	IP67
Touch-proof:	IP2XB
Ambient temperature:	-40 to 70°C
Cable standard:	LV216
Standards:	USCAR-2 / 37

Plug



Codings



How to order:

CHD	14	06	2	X	1	XX
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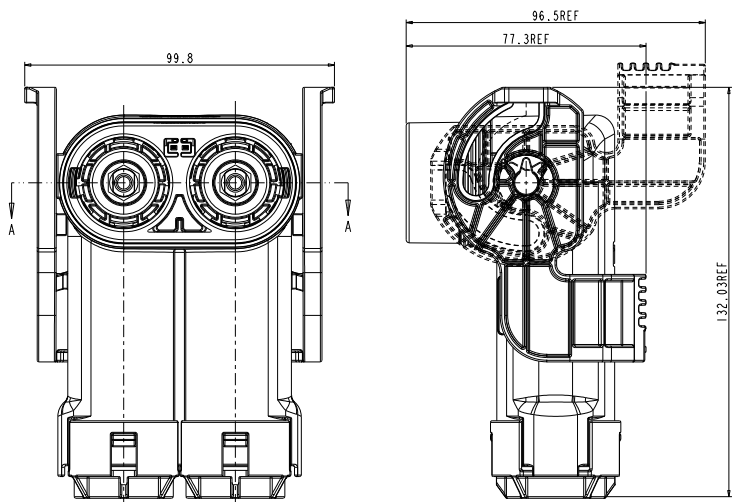
- A: Coding A
B: Coding B
C: Coding C

0: without HVIL
1: with HVIL

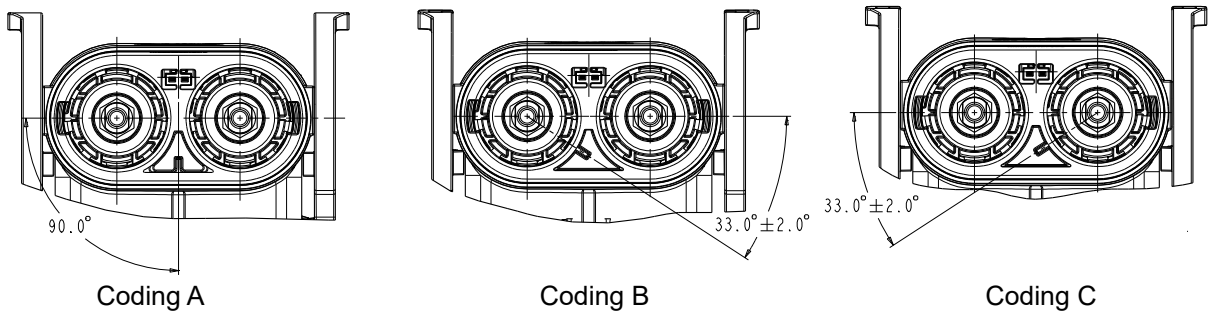
01: 150mm² | Wire OD: 24.9 ± 0.5mm
02: 120mm² (LV216) | Wire OD: 22.6 ± 0.4mm
03: 95mm² (LV216) | Wire OD: 20.5 ± 0.4mm
04: 70mm² (LV216) | Wire OD: 17.8 ± 0.4mm
05: 95mm² (H&S) | Wire OD: 19.9 ± 0.5mm

CHD14 (2 PIN) RA PLUG & SHUNT VERSION

Right-angle Plug



Codings



How to order:

CHD	14	08	2	X	1	XX
				A: Coding A B: Coding B C: Coding C	0: without HVIL 1: with HVIL	01: 150mm ² Wire OD: 24.9 ± 0.5mm 02: 120mm ² (LV216) Wire OD: 22.6 ± 0.4mm 03: 95mm ² (LV216) Wire OD: 20.5 ± 0.4mm 04: 70mm ² (LV216) Wire OD: 17.8 ± 0.4mm 05: 95mm ² (H&S) Wire OD: 19.9 ± 0.5mm

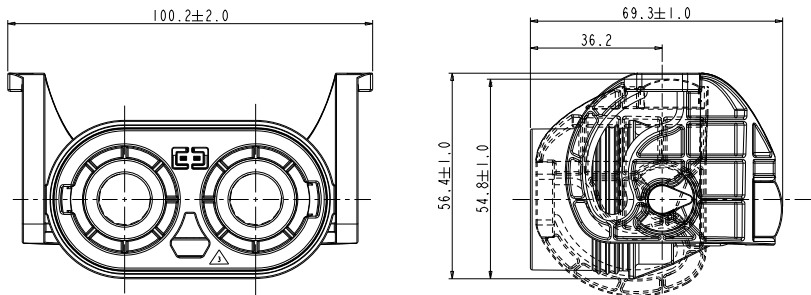
CHD14 (2 PIN) SHUNT VERSION

Aluminum alloy housing
Contacts: copper alloy, silver plating

Specifications

Rated current:	500A	Waterproof (mated):	IP67, IP6K9K
Rating voltage:	1500V DC	(Unmated socket):	IP67
Operating temperature:	-40 to 125°C	Touch-proof:	IP2XB
Salt spray :	500h Min	Ambient temperature:	-40 to 70°C
Durability:	50 cycles	Cable standard:	LV216
Shielding:	Yes	Standards:	USCAR-2 / 37

Plug



How to order:

CHD	14	06	2	N	X	X	SC
				0: without HVIL 1: with HVIL	01: Without power terminal 02: With power terminal	SC: Short Connection	

Receptacle

How to order:

CHD	14	02	2	X		X	01
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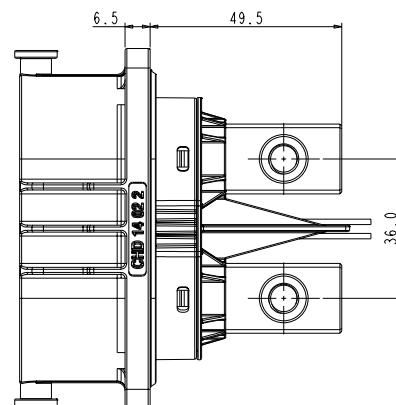
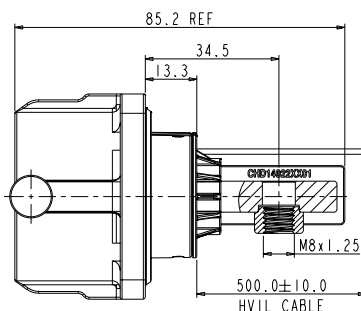
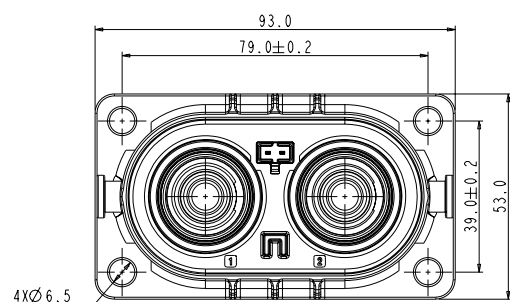
A: Coding A

B: Coding B

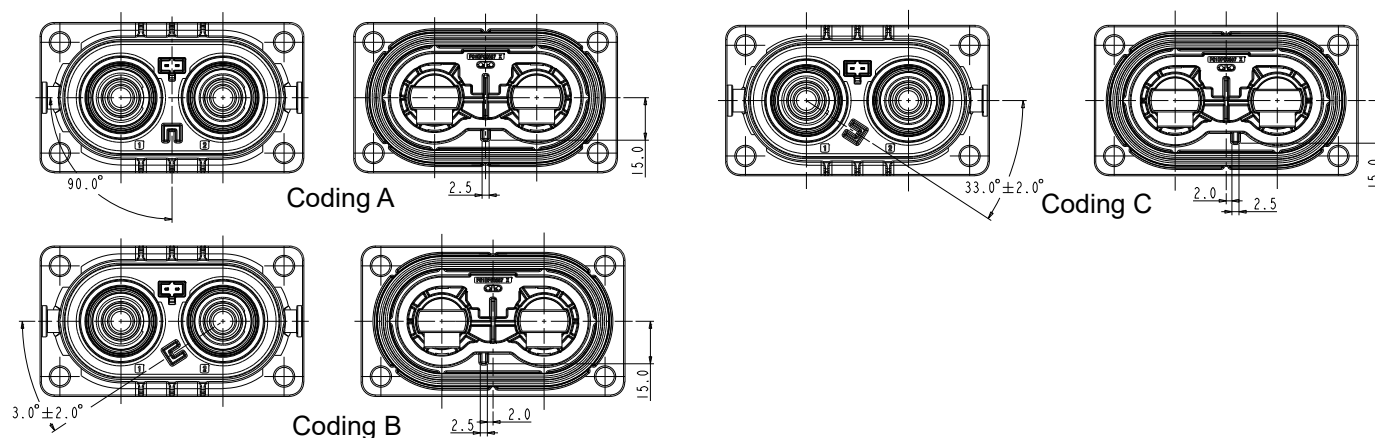
C: Coding C

0: Without HVIL

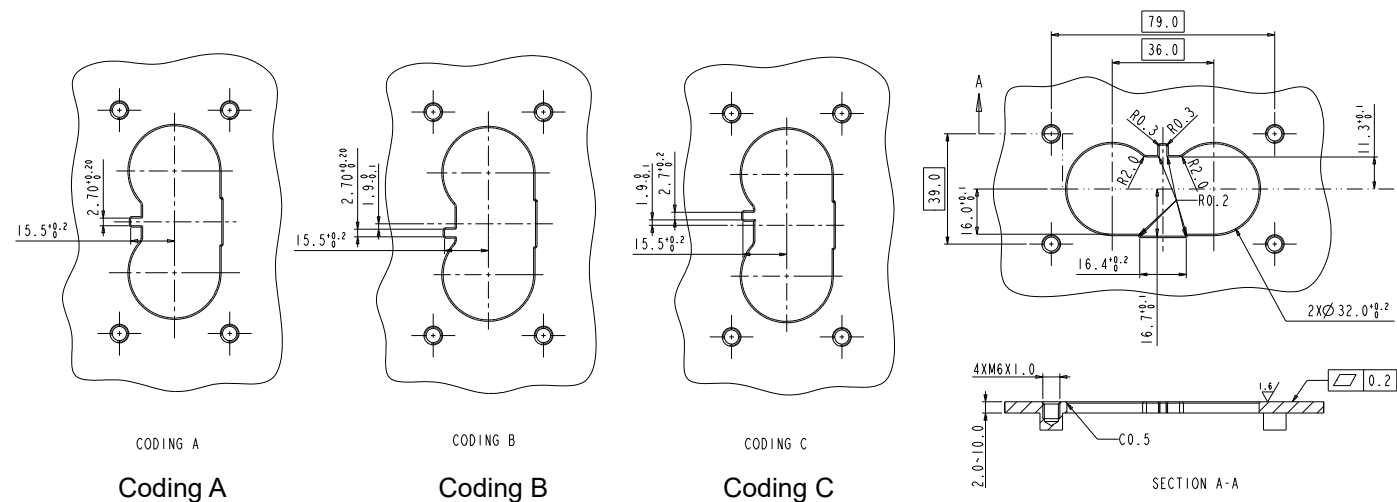
1: Wit HVIL



Codings



Mounting Dimensions



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Notes:

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Amphenol PCD Shenzhen reserves the right to clarify this catalog.