



ULTRA-ROBUST CONNECTORS FOR

**ALL-TERRAIN
ELECTRIC
VEHICLES**



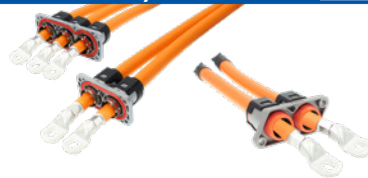
CHD 10 & 14

p.4



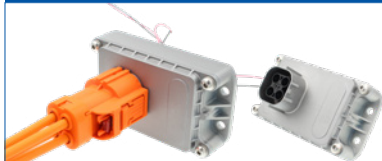
HVPT M/BM

p.7



PDC

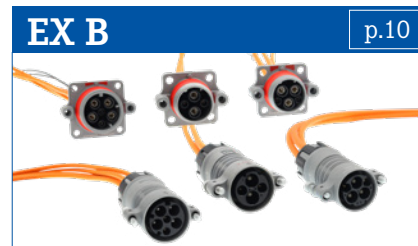
p.13



INLETS

p.14





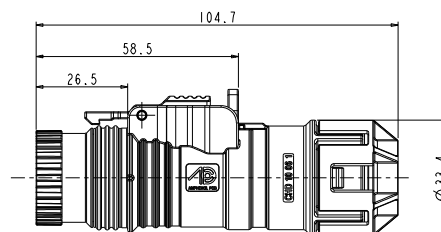
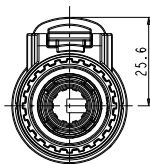
Amphenol PCD supplies a wide range of **cable harnesses** with **robust connectors**. The following set of products has been designed for harsh environments, making them reliable and durable for use in all-terrain vehicles.

Specifications

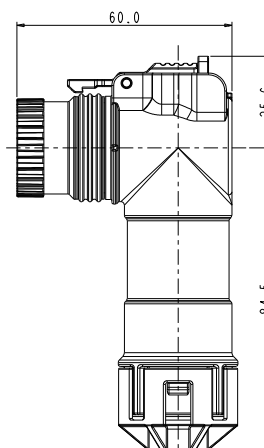
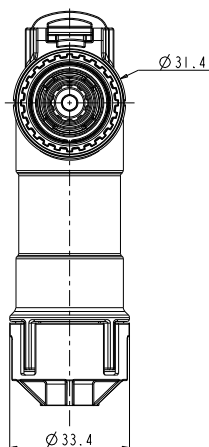
Current rate (35mm ² shield cable):	150A@ ambient temperature 70°C	Durability:	50 cycles Min
Current rate (50mm ² shield cable):	200A@ ambient temperature 70°C	Shielding:	Yes
Current rate (70mm ² shield cable):	250A@ ambient temperature 70°C	Waterproof (mated):	IP67, IP6K9K
Rating voltage:	1500V DC	(unmated socket):	IP67
Operating temperature:	-40 to 125°C	Touch-proof:	IP2XB
Salt spray:	500h Min	Ambient temperature:	-40 to 70°C

Plugs

CHD	10	06	1	X	1	XX		
				A: coding A	D: coding D	1: with HVIL	01: 70mm ² Wire OD: 17.8 ± 0.4mm	04: 50mm ² Wire OD: 14.9 ± 0.3mm
				B: coding B	E: coding E		02: 50mm ² Wire OD: 15.5 ± 0.3mm	05: 35mm ² Wire OD: 12.7 ± 0.3mm
				C: coding C			03: 70mm ² Wire OD: 17.0 ± 0.3mm	



CHD	10	08	1	X	1	XX
A: coding A D: coding D 1: with HVIL 01: 70mm ² Wire OD: 17.8 ± 0.4mm 04: 50mm ² Wire OD: 14.9 ± 0.3mm						
B: coding B E: coding E 02: 50mm ² Wire OD: 15.5 ± 0.3mm 05: 35mm ² Wire OD: 12.7 ± 0.3mm						
C: coding C 03: 70mm ² Wire OD: 17.0 ± 0.3mm						

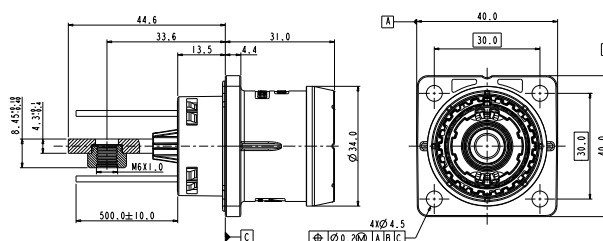


Receptacle

CHD	10	02	1	X	X	01
A: coding A D: coding D 0: without HVIL B: coding B E: coding E 1: with HVIL C: coding C						



UNMATED SOCKET:
IP67



CHD 14 (1-PIN)

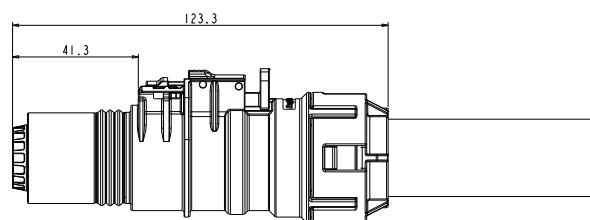
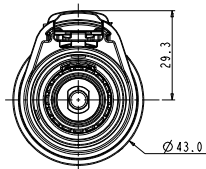
Aluminum alloy housing
Contacts: copper alloy, silver plating

Specifications

Current rate (70mm ² shield cable):	250A@ ambient temperature 70°C	Durability:	50 cycles Min
Current rate (95mm ² shield cable):	350A@ ambient temperature 70°C	Shielding:	Yes
Current rate (120mm ² shield cable):	430A@ ambient temperature 70°C	Waterproof (mated):	IP67, IP6K9K
Current rate (150mm ² shield cable):	500A@ ambient temperature 70°C	(unmated sockets):	IP67
Rating voltage:	1500V DC	Touch-proof:	IP2XB
Operating temperature:	-40 to 125°C	Ambient temperature:	-40 to 70°C
Salt spray:	500h Min		

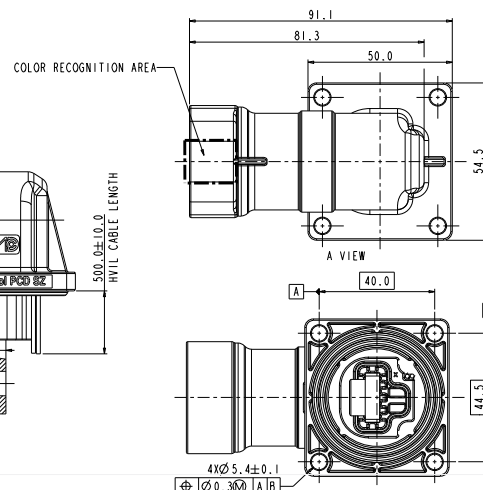
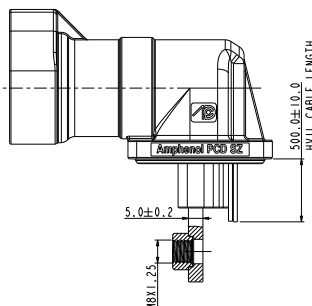
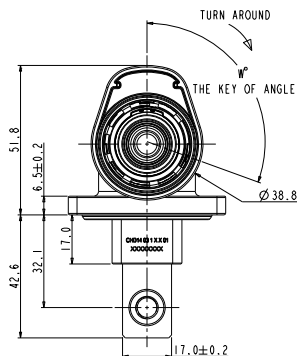
Plug

CHD	14	06	1	X	X	XX
				A: coding A B: coding B C: coding C	D: coding D E: coding E	0: without HVIL 1: with HVIL 01: 150mm ² 02: 120mm ² 03: 95mm ² 04: 70mm ²

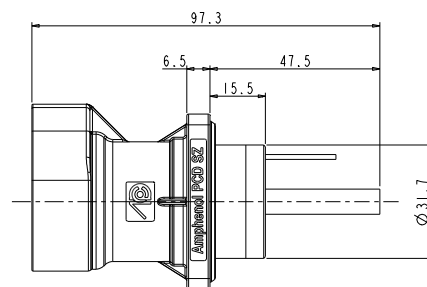
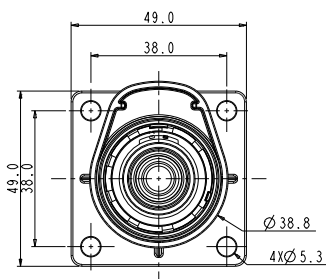


Receptacles

CHD	14	03	1	X	X	01
				A: coding A B: coding B C: coding C	D: coding D E: coding E	0: without HVIL 1: with HVIL



CHD	14	02	1	X	X	01
				A: coding A B: coding B C: coding C	D: coding D E: coding E	0: without HVIL 1: with HVIL



比例 1:1

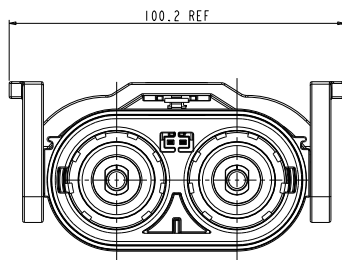
CHD 14 (2-PIN)

Aluminum alloy housing
Contacts: copper alloy, silver plating

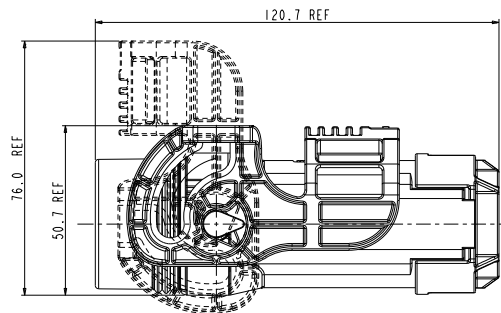
Specifications

Current rate (70mm ² shield cable):	250A@ ambient temperature 70°C	Durability:	50 cycles Min
Current rate (95mm ² shield cable):	350A@ ambient temperature 70°C	Shielding:	Yes
Current rate (120mm ² shield cable):	430A@ ambient temperature 70°C	Waterproof (mated):	IP67, IP6K9K
Current rate (150mm ² shield cable):	500A@ ambient temperature 70°C	(unmated sockets):	IP67
Rating voltage:	1500V DC	Touch-proof:	IP2XB
Operating temperature:	-40 to 125°C	Ambient temperature:	-40 to 70°C
Salt spray:	500h Min		

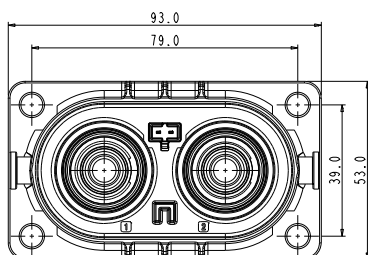
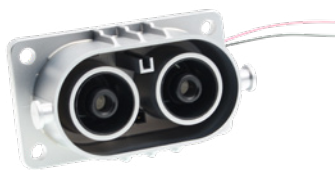
Plug



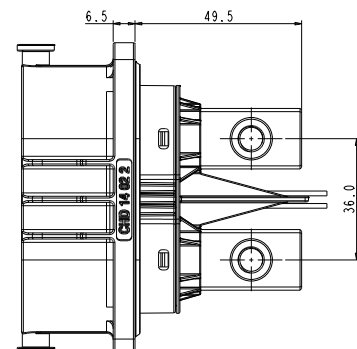
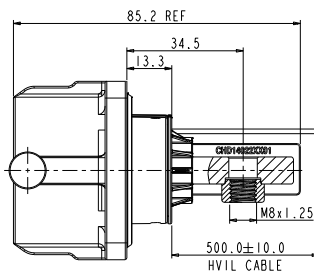
CHD	14	06	2	X	X	XX
		A: coding A		0: without HVIL		01: 150mm ²
		B: coding B		1: with HVIL		02: 120mm ²
		C: coding C				03: 95mm ²
						04: 70mm ²



Receptacle



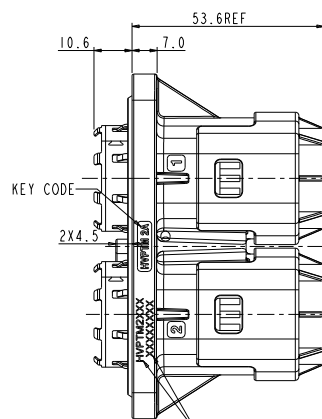
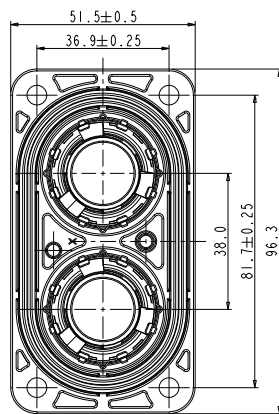
CHD	14	02	2	X	X	01
		A: coding A		0: without HVIL		
		B: coding B		1: with HVIL		
		C: coding C				



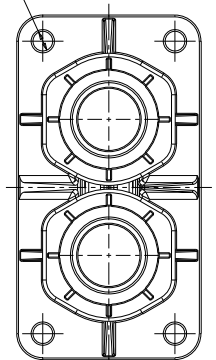
Specifications

Operating Temperature:	-40 to 125°C	Waterproof:	IP67 & IP6K9K
Shielding:	Yes	Salt Spray:	500H
RoHS & REACH:	Yes		

Connector Dimensions

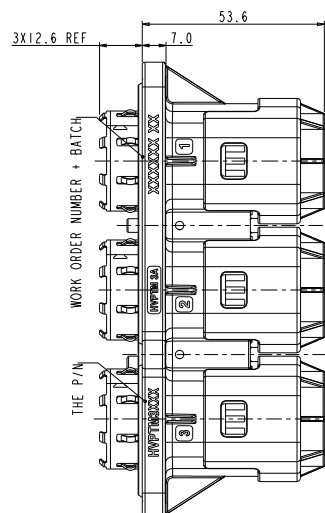
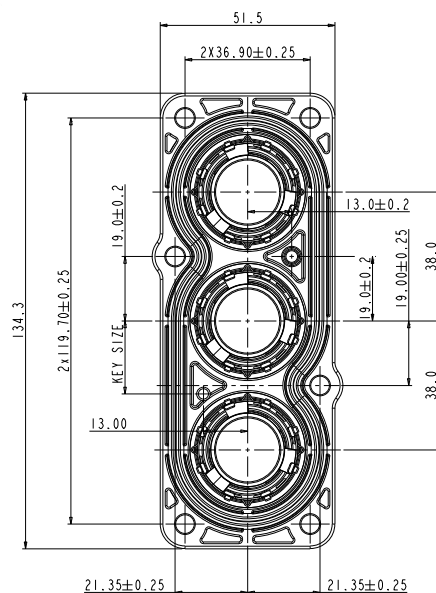


M5 SCREW AND WASHER APPLICABLE
4XØ5.5

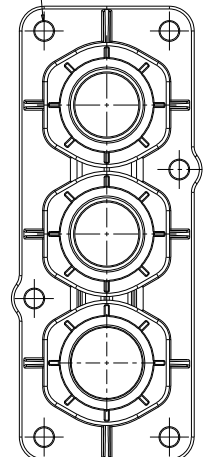


PRINTING CONTENT:
THE FIRST ROW IS P/N(PRINT THE FULL CODE)
THE SECOND ROW IS TRACEABILITY CODE

Connector Dimensions



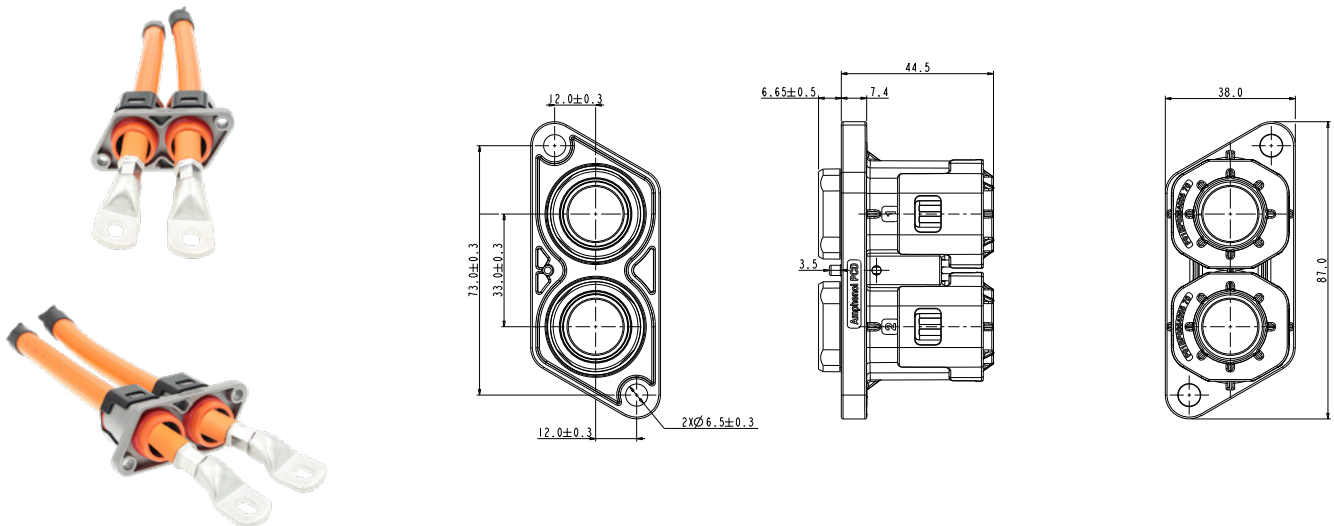
6XØ5.5
M5 SCREW APPLICABLE



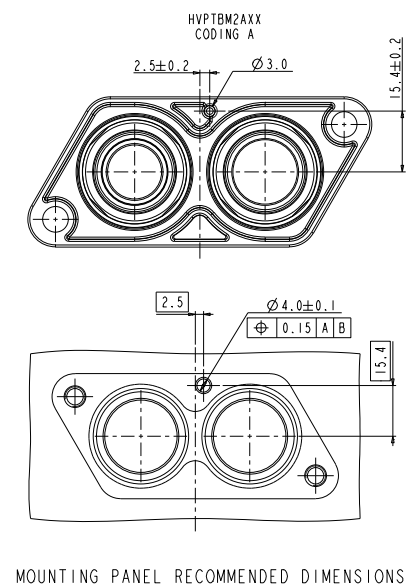
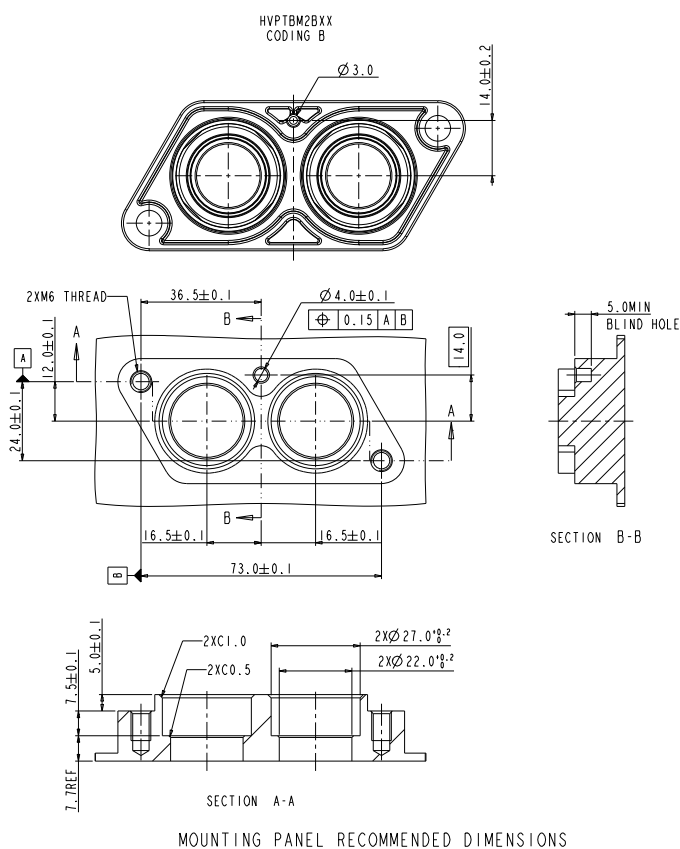
Specifications

Operating Temperature:	-40 to 125°C	Waterproof:	IP68 & IP6K9K
Shielding:	Yes	Salt Spray:	500H
RoHS & REACH:	Yes		

Connector Dimensions



Mounting Panel Recommended Dimensions

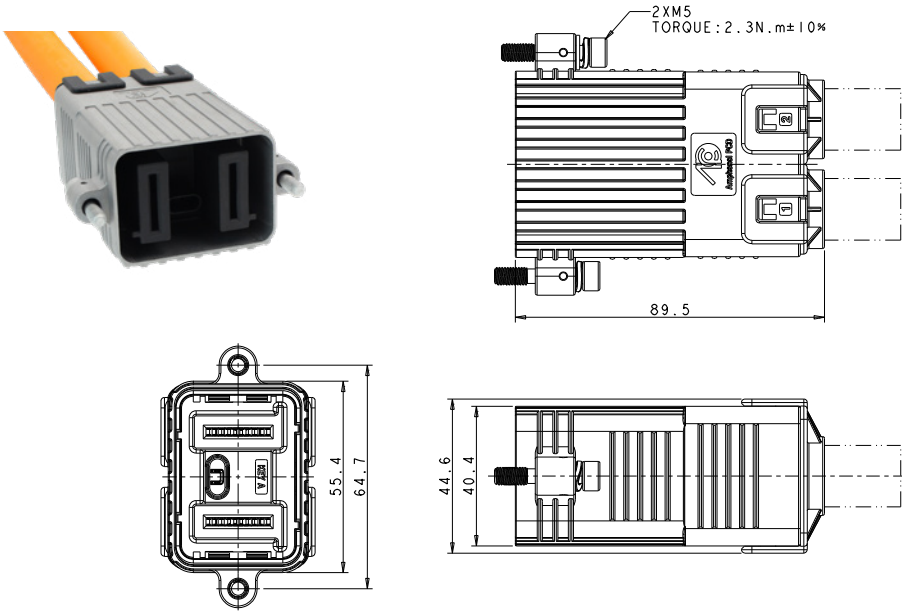


MOUNTING PANEL RECOMMENDED DIMENSIONS

Specifications

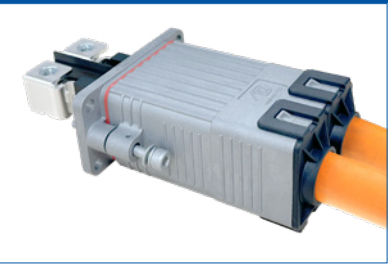
Current rate (70mm ² shield cable):	270A@ ambient temperature 70°C	Insulation resistance:	> 100MΩ
Current rate (50mm ² shield cable):	220A@ ambient temperature 70°C	Durability:	50 cycles
Current rate (35mm ² shield cable):	180A@ ambient temperature 70°C	Shielding:	Yes
Signal current:	5A Max.	Waterproof (mated):	IP67, IP6K9K
Rating voltage:	1000V DC	Touch-proof:	IP2XB
Operating temperature:	-40 to 125°C	Salt spray test:	500H
Dielectric withstanding voltage:	Power: 3000V AC Signal: 660V AC	Ambient temperature:	-40 to 70°C

Plug

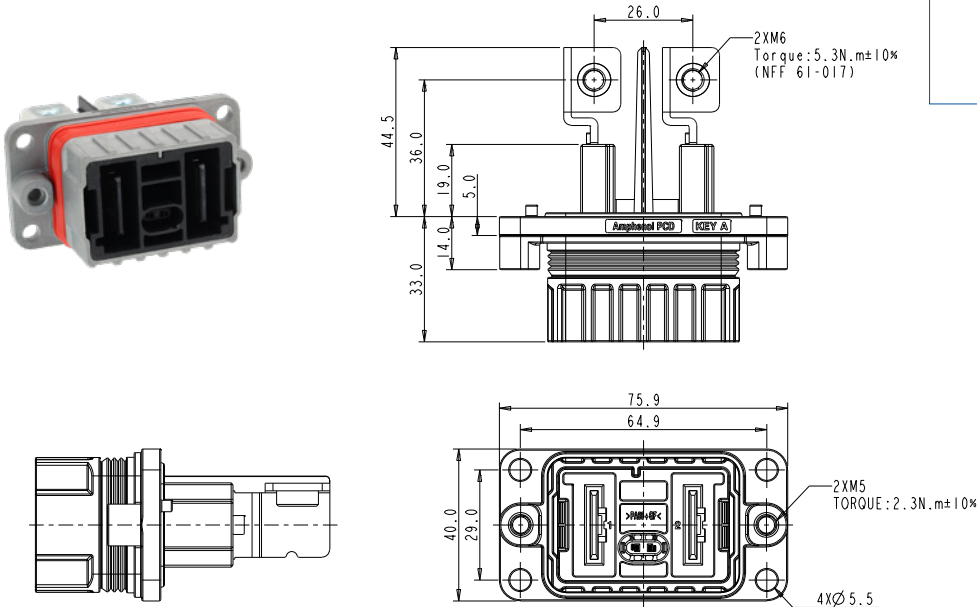


Jacket diameter:	
70mm ² cable	Ø17.8 +/- 0.4
50mm ² cable	Ø15.5 +/- 0.3
35mm ² cable	Ø14.1 +/- 0.3

MATED



Receptacle



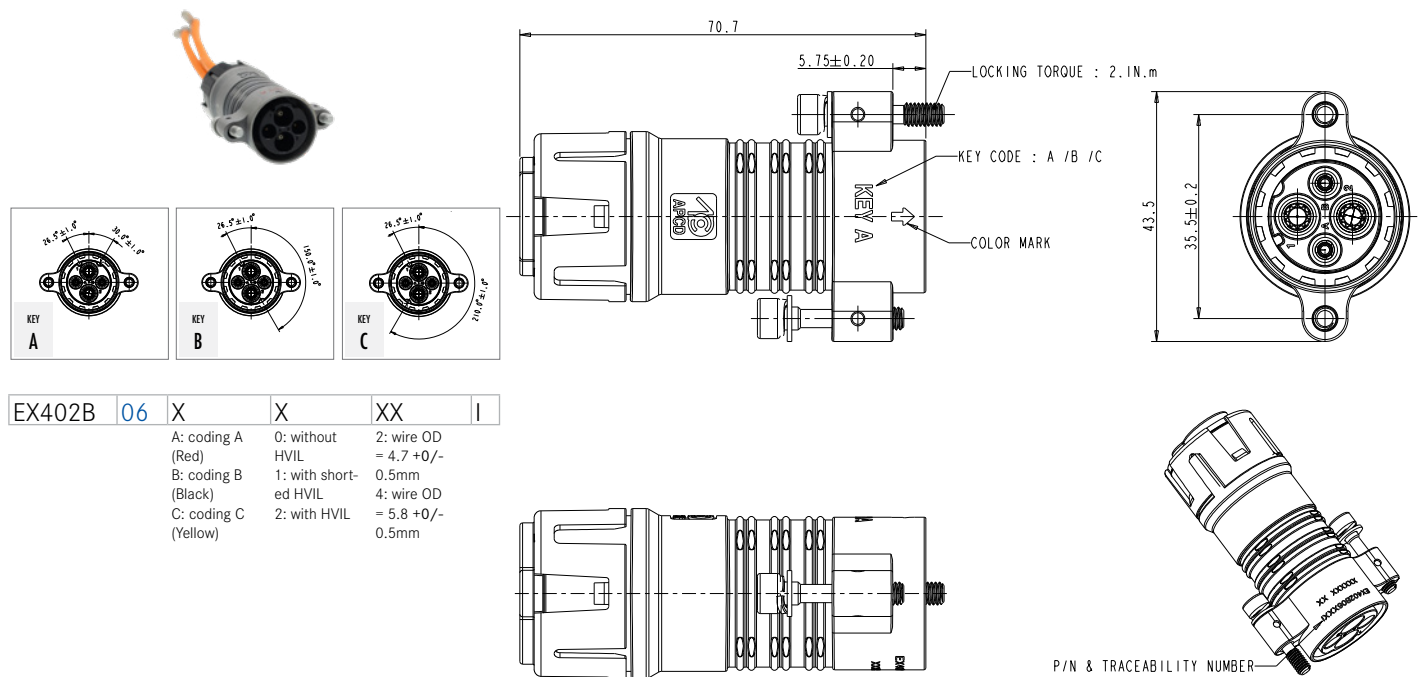
EX 402B

Metal housing: grey color
Contacts: copper alloy, silver plating

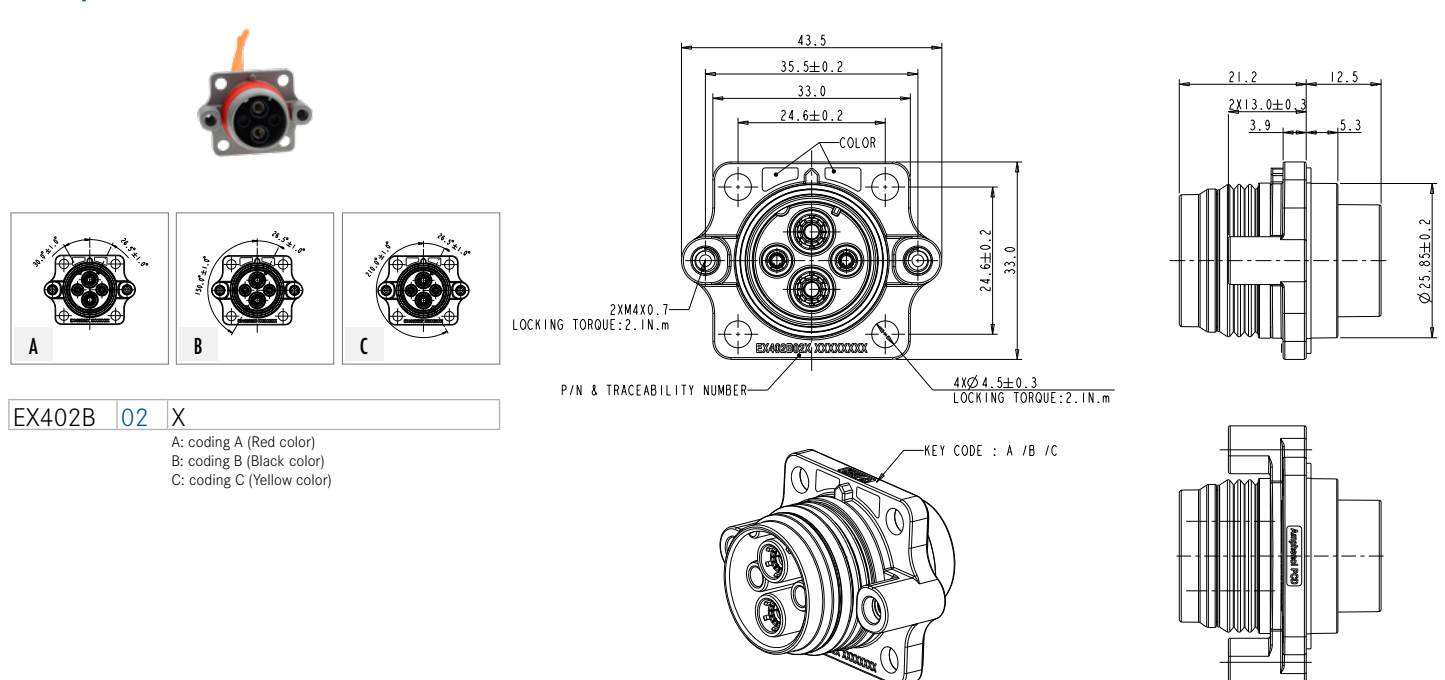
Specifications

Current rate (2.5mm ² shield cable):	23A@ ambient temperature 70°C	Durability:	50 cycles
Current rate (4mm ² shield cable):	32A@ ambient temperature 70°C	Shielding:	Yes
Rating voltage:	1000V DC	Waterproof (mated):	IP68, IP6K9K
Operating temperature:	-40 to 125°C	Touch-proof:	IP2XB
Dielectric withstanding voltage:	3000V AC (RMS)	Salt Spray:	500H
Insulation resistance:	200MΩ Min.	Ambient temperature:	-40 to 70°C
		ROHS:	Yes

Plug



Receptacle



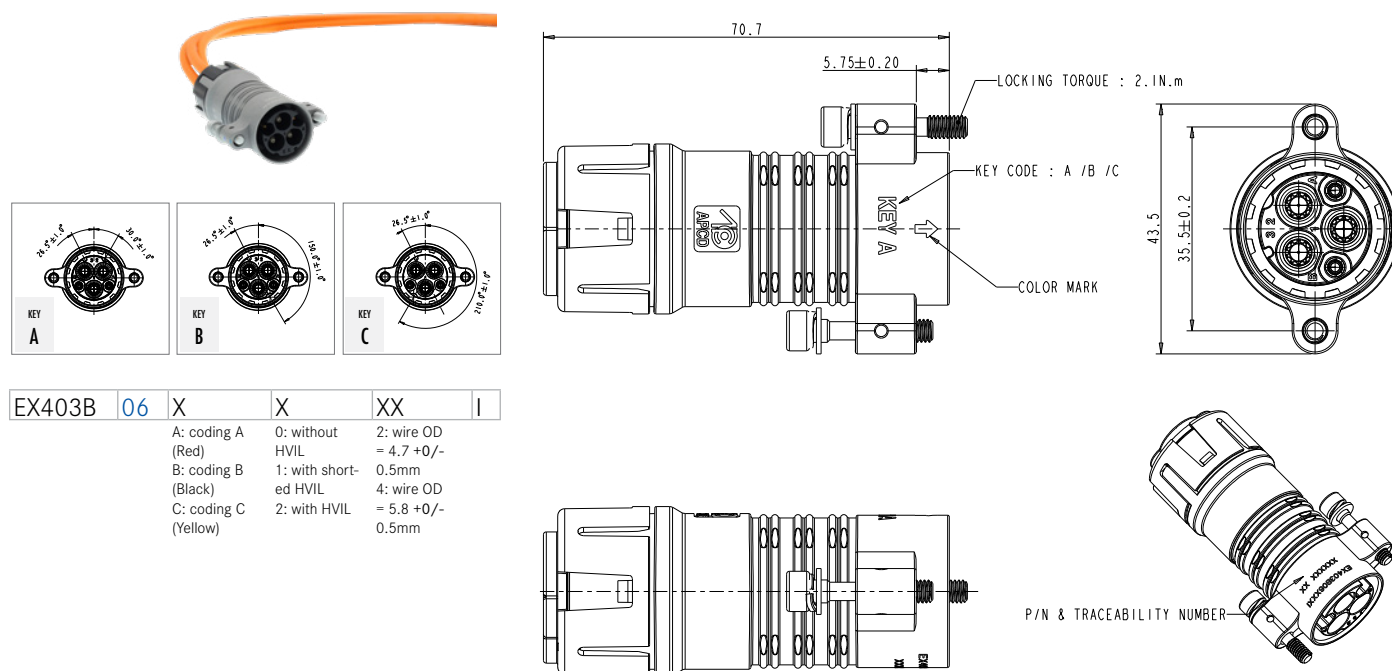
EX 403B

Metal housing: grey color
Contacts: copper alloy, silver plating

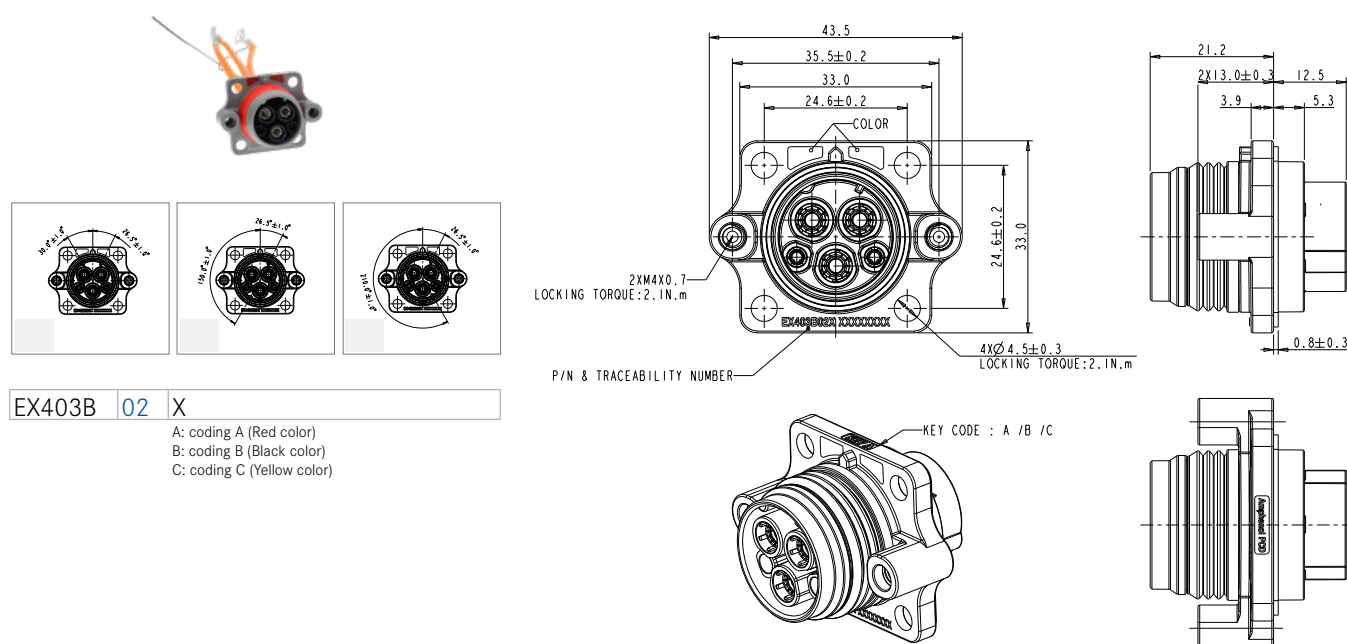
Specifications

Current rate (2.5mm ² shield cable):	23A@ ambient temperature 70°C	Durability:	50 cycles
Current rate (4mm ² shield cable):	32A@ ambient temperature 70°C	Shielding:	Yes
Rating voltage:	1000V DC	Waterproof (mated):	IP68, IP6K9K
Operating temperature:	-40 to 125°C	Touch-proof:	IP2XB
Dielectric withstanding voltage:	3000V AC (RMS)	Salt Spray:	500H
Insulation resistance:	200MΩ Min.	Ambient temperature:	-40 to 70°C
		ROHS:	Yes

Plug



Receptacle



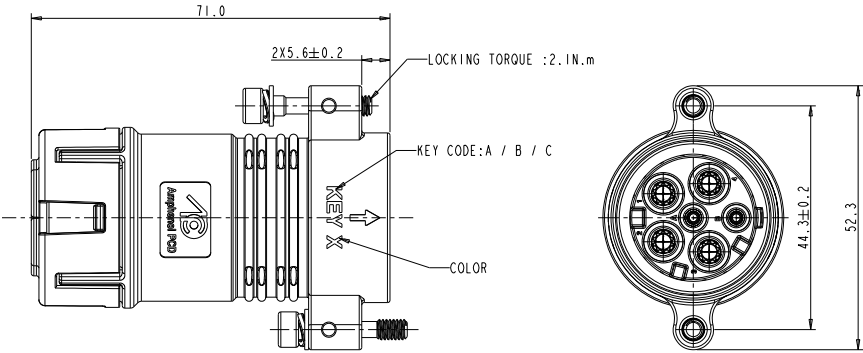
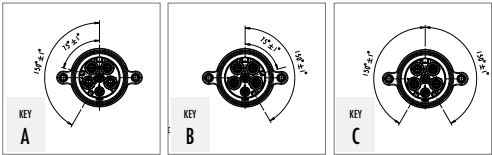
EX 404B

Metal housing: grey color
Contacts: copper alloy, silver plating

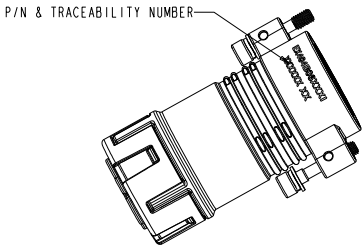
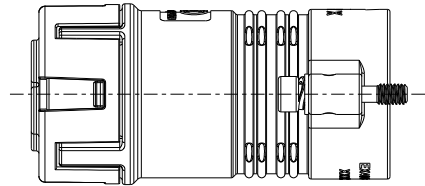
Specifications

Current rate (2.5mm ² shield cable):	23A@ ambient temperature 70°C	Durability:	50 cycles
Current rate (4mm ² shield cable):	32A@ ambient temperature 70°C	Shielding:	Yes
Rating voltage:	1000V DC	Waterproof (mated):	IP68, IP6K9K
Operating temperature:	-40 to 125°C	Touch-proof:	IP2XB
Dielectric withstanding voltage:	3000V AC (RMS)	Salt Spray:	500H
Insulation resistance:	200MΩ Min.	Ambient temperature:	-40 to 70°C
		ROHS:	Yes

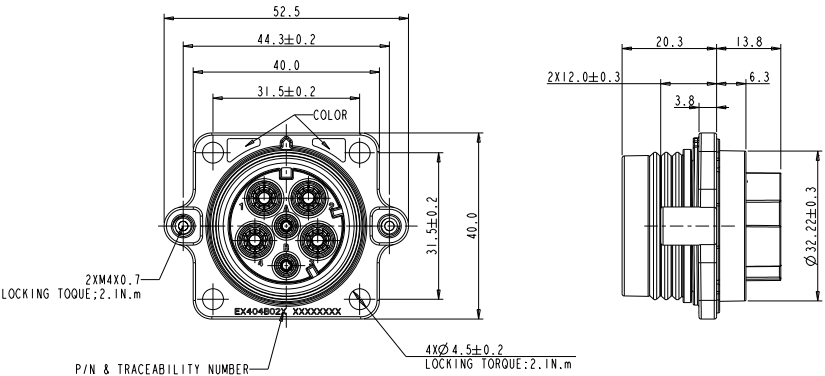
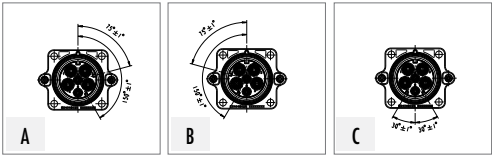
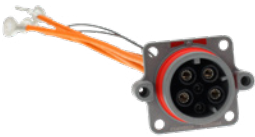
Plug



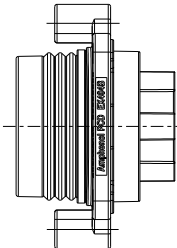
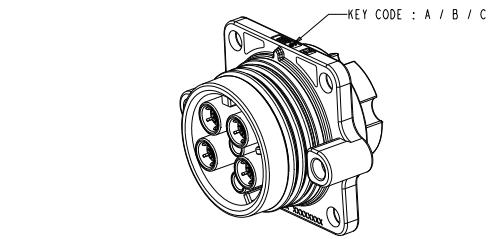
EX404B	06	X	X	XX	I
		A: coding A (Red)	0: without HVIL	2: wire OD = 4.7 +0/-0.5mm	
		B: coding B (Black)	1: with shorted HVIL	4: wire OD = 5.8 +0/-0.5mm	
		C: coding C (Yellow)	2: with HVIL		



Receptacle



EX404B	02	X
		A: coding A (Red color)
		B: coding B (Black color)
		C: coding C (Yellow color)



Applications:

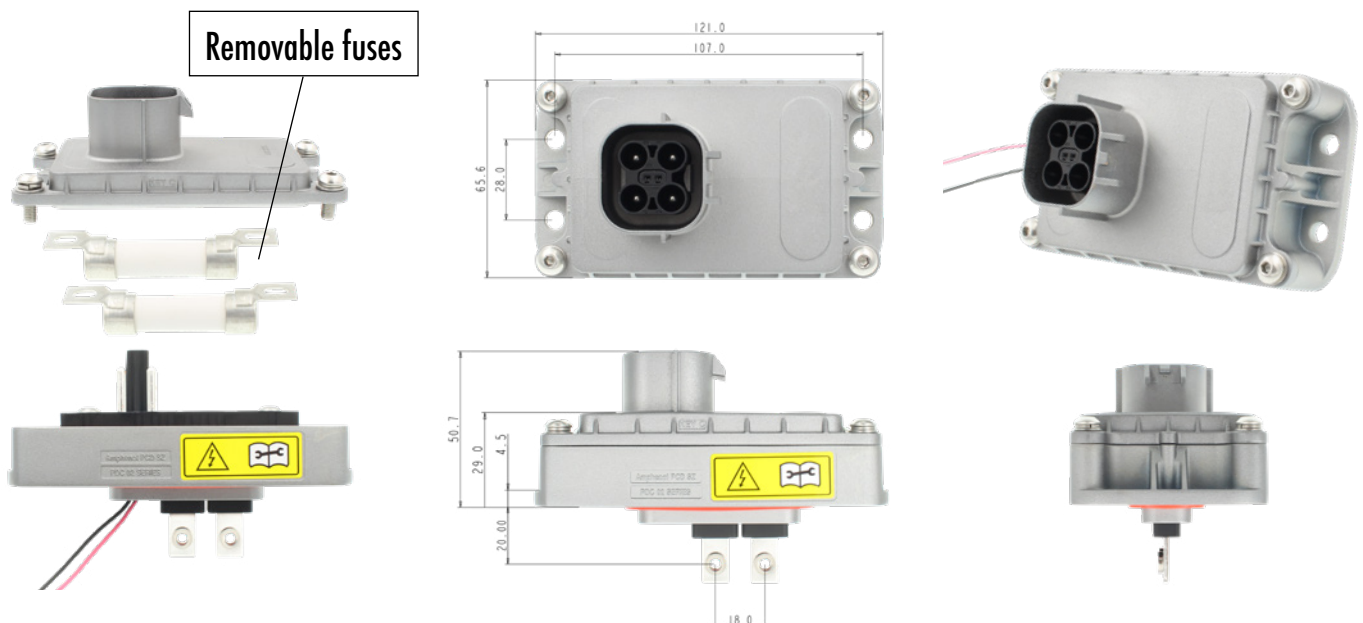
Battery Pack to Main Power Distribution Unit
High Power Auxiliaries.

Specifications

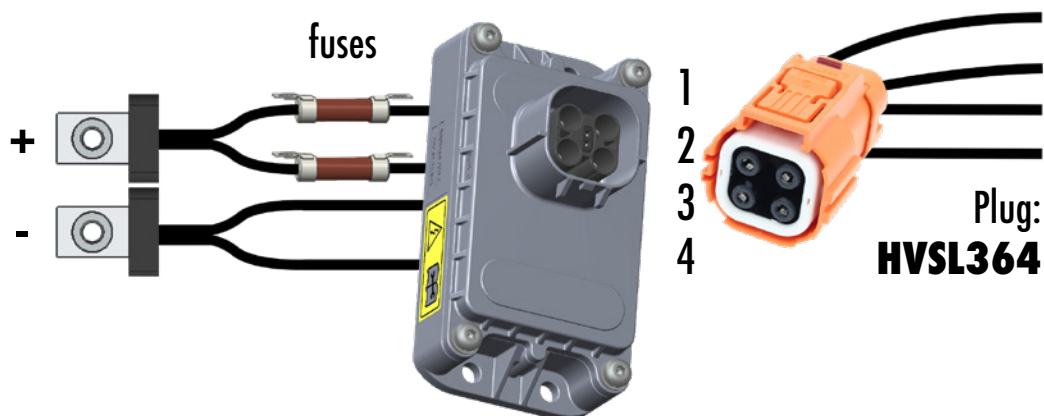
Rated current:	8A to 32A	Waterproof (mated):	IP67, IP6K9K
Rated voltage:	500V, 750V, 1000V	Waterproof (unmated socket):	IP67
Wire range:	2.5, 4, and 6 mm ²	Fuse:	15A, 20A, 25A, 30A, 35A, 40A, 50A, 60A
Ambient temperature:	-40 to 70°C	Associated plug:	HVSL364
Shielding:	Metallic housing	Touch-proof:	IP2XB

Receptacle

This Power Distribution Connector (PDC) finds **its best use** in the case where the PDU is already fully integrated into the Battery Pack. Without a PDC, we would need to entirely disassemble the Battery Pack to replace a blown fuse. However, using a PDC with **removable fuses** makes the replacement of blown fuses much more **accessible** and **effortless**.



The PDC connector converts a **2-pin input** into a **4-pin output**.



Basically, the PDC is a mini PDU-like type of connector!

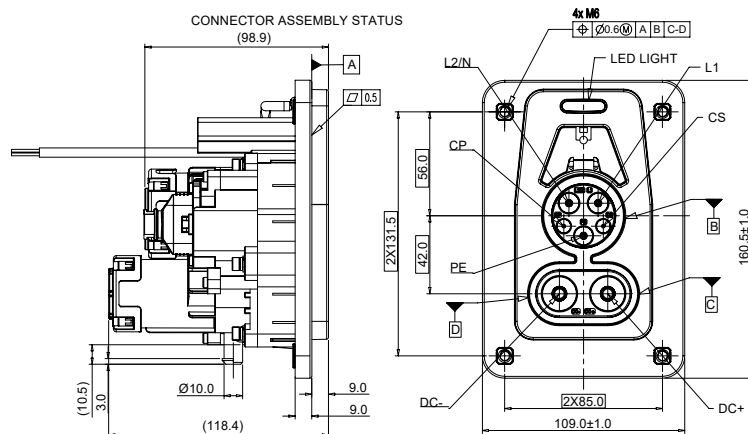
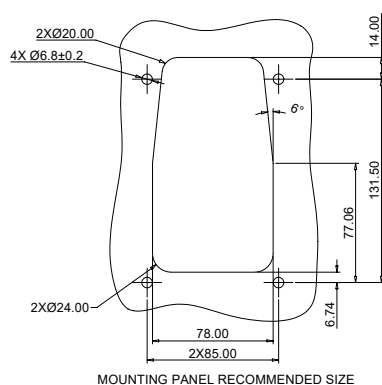
Specifications

Mating cycles:	> 10,000 cycles	Temperature sensor:	PT1000
Rated current:	500A (<i>Peak current: 800A</i>)	Protection degree:	Type 3S
Rated voltage:	1000V (DC)	Ambient temperature:	-30 to 50°C

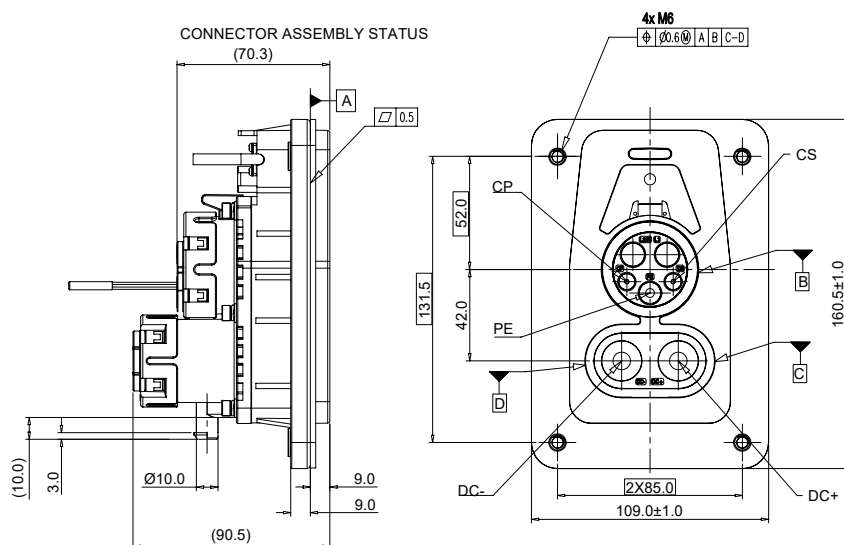
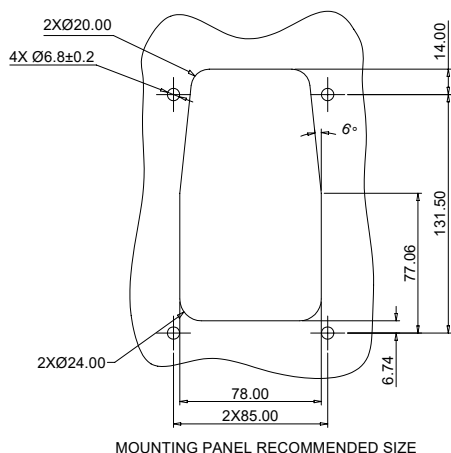
Features and Dimensions



AC+DC DIMENSIONS



DC DIMENSIONS



Note: Current data might be subject to change, product drawings shall prevail.

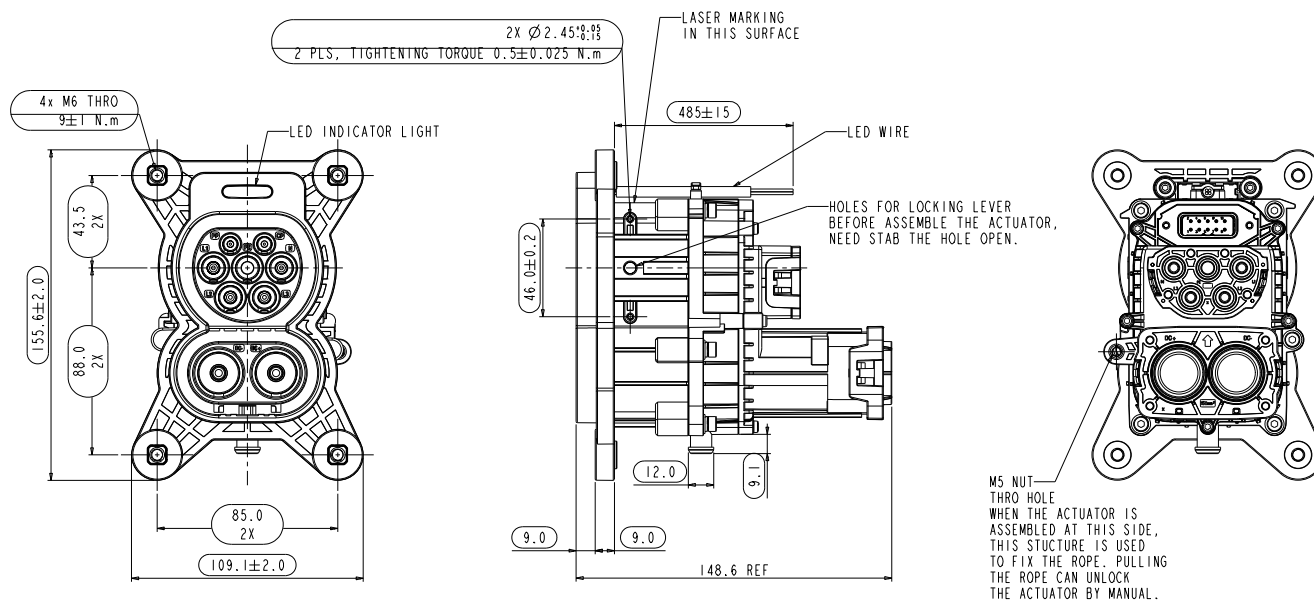
Specifications

Mating cycles:	> 10,000 cycles	Temperature sensor:	PT1000
Rated current:	500A	Waterproof:	IP67 (housing)
Rated voltage:	1000V (DC)	Ambient temperature:	-30 to 50°C

Features and Dimensions



With
protection cap

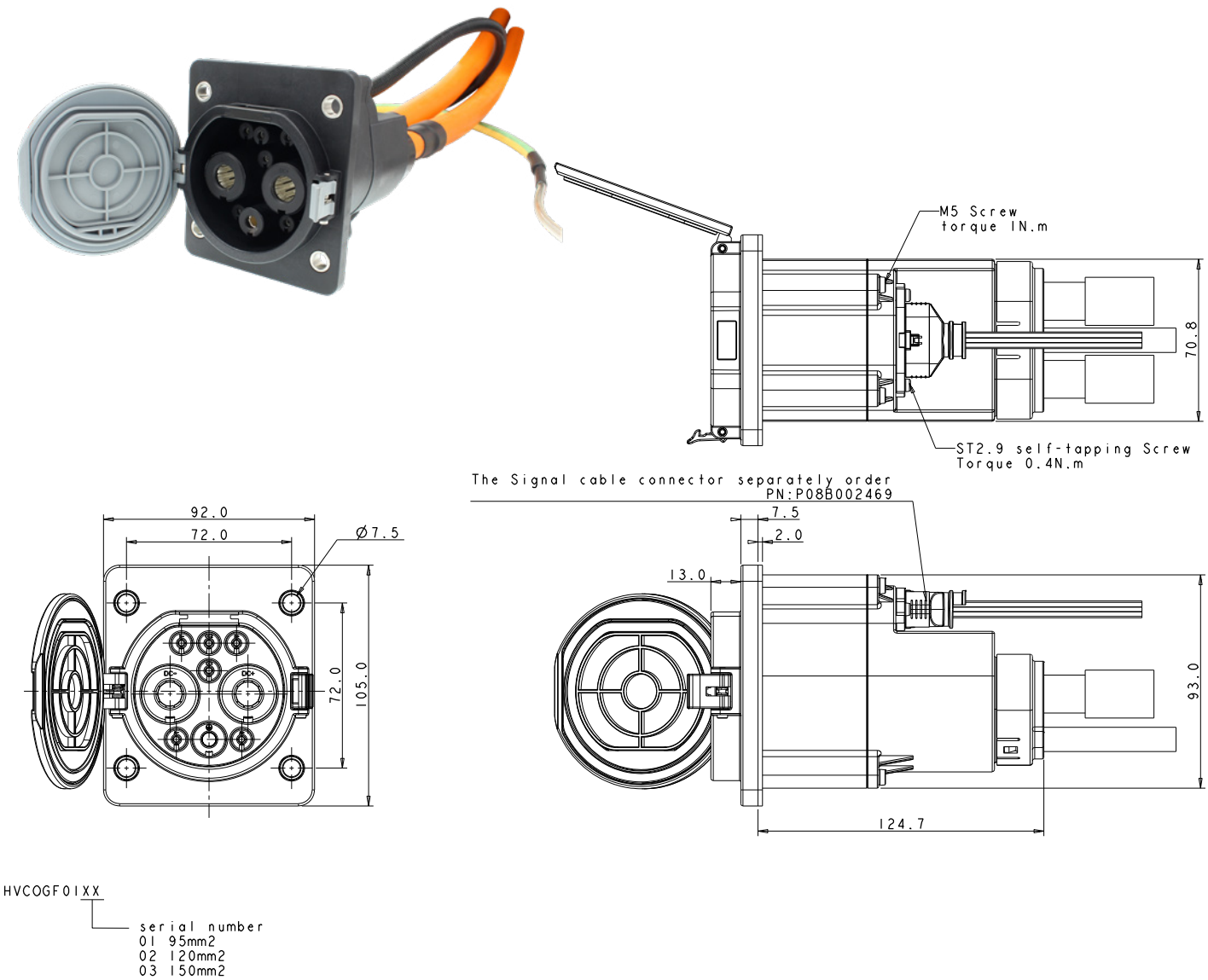


Note: Current data might be subject to change, product drawings shall prevail.

Specifications

Mating cycles:	> 10,000 cycles	Ambient temperature:	-30 to 50°C
Current rate (95mm ² shield cable):	300A Max.	Dielectric withstanding voltage:	Signal: 500V AC Power: 4000V AC
Current rate (120mm ² shield cable):	400A Max.	Waterproof:	IP54 (with cap) IP55 (mated) IP67 (inside crimp)
Current rate (150mm ² shield cable):	500A Max.	Insertion and extraction forces:	< 140N
Current rate (0.75mm ² shield cable):	2A (Signal)	Standards:	GB/T20234-1, GB/T20234-3
Rated voltage:	Signal: 30V DC Power: 1500V DC		

Features and Dimensions



Note: Current data might be subject to change, product drawings shall prevail.

Amphenol PCD Shenzhen

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www.amphenolpcd.com.cn



Notes:

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