



SOLUTIONS
CONNECTOR - POWER SUPPLY - ASSEMBLY

EDITION 2020/2021

E-MOBILITY
CONNECTORS



NICE TO MEET YOU

We are A&C Solutions, the connector & harness distribution specialist that offers you a tailor-made solution to any e-mobility application. We complement our offer with high-end power supply solutions and we manage your stock on request.

As a full service provider, we are ready to support you into the e-mobility era of the future!

Do you want to get to know us better?



SOLUTIONS DESIGNED AROUND YOUR BUSINESS



'A connector solution that matches, we don't settle for anything less'

THIS IS HOW WE WORK

‘We strongly believe that where focus goes, business grows’



ALL EYES ON YOU

We don't sell products, we sell solutions. A solution only becomes one when it fully meets your requirements. It doesn't matter whether you are looking for a single connector or a fully customized cable set. We are there to help you find the right match at the best price available in the market.



E-MOBILITY FOCUS

We can only add value to your business when we step into your world and learn to understand it. Therefore, we have chosen to align our knowledge and range of connector & power supply solutions with targeted markets like E-mobility.



QUALITY FIRST

Because of ISO 9001, we have a solid organization based on predefined working procedures, incoming and outgoing quality checks and ongoing self-assessment to do things even better next time.



A SPECIALIST AT YOUR SERVICE

We have a clear focus on connector & power supply solutions. In both fields, we have built a strong expertise that helps us to advise you the best solution for your application.



LONGTERM PARTNERSHIPS

We are a partnership builder who is convinced that success can only come from a long term focus. This is how we approach our suppliers, assembly partners and above all, our customers.



YOUR STOCK MANAGER

Our stock management services are designed to support your ongoing production process. We deliver a large part of the conventional connector & power supply solutions directly from stock within 24 hours. And we keep designated customer stock on demand or based on periodic forecast information.



OUR HOME BASE

LOCATED IN TURNHOUT, BELGIUM WITH A 500M² WAREHOUSE



SIGNAL

6 - 19



MOTOR

20 - 31



BATTERY

32 - 46



CABLE HARNESSES

49



SPLITTERS

50 - 51



'We clearly see that more and more customers try to further enhance the e-bike experience by adding extra features like tracking systems, GPS, electrical locks, heat grips and even heated seats. So along with an even more compact design, there is a need for extra connections and a higher data transmission. This trend keeps our R&D colleagues at Higo constantly focussed on creating smaller designs with an increasing number of poles so that in the end all connectors can still be nicely hidden away in e-bike frames.'

Jannes Christiaensen, Account manager A&C Solutions



SIGNAL MINI B

8 - 9



SIGNAL MINI C

10



SIGNAL MINI E

11



SIGNAL MINI F / 7-POLE PLUG

12 - 15



SIGNAL MICRO A / D

16 - 17



SIGNAL MAIN PLUG

18 - 19

SIGNAL CONNECTORS MINI B PLUG



ARTICLE NUMBER BUILD-UP:

Number of poles:
2 up to 6

Cable length in mm

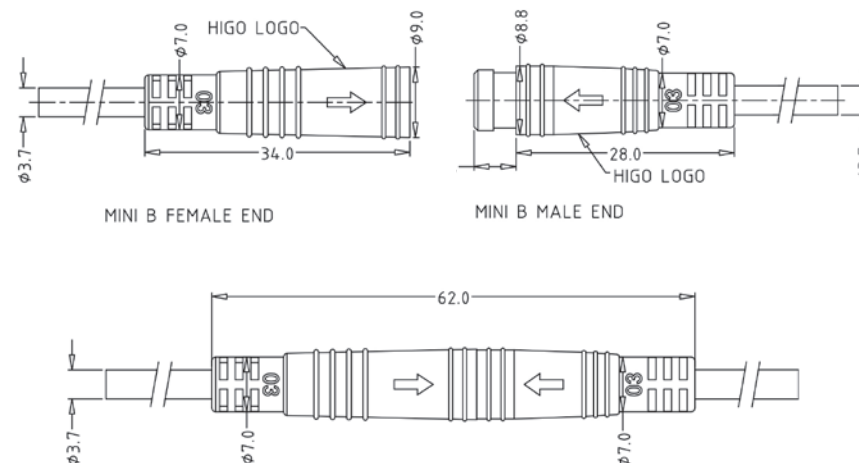
00: Standard
01: Cable & wires stripped + tinned
05: Customized with other connectors

Z * 09 B * P * * * * *

M: Female
G: Male

EXTENSION CABLES:
X: Male-Female
Y: Female-Female
Z: Male-Male

A0: PVC cable 2x0,2mm²
A1: PVC cable 3x0,2mm²
A2: PVC cable 4x0,14mm²
A3: PVC cable 5x0,14mm²
A4: PVC cable 6x0,14mm²
For more options: see website



CHARACTERISTICS

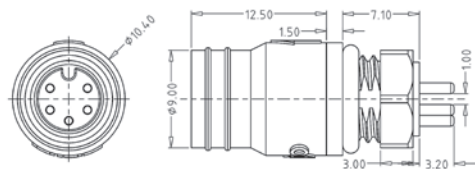
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP66
Mating Cycles:	200 times
Outside Diameter:	9,0mm
Fitting Length:	62,0mm
Wire Specification:	0,14mm ² / 0,2mm ²



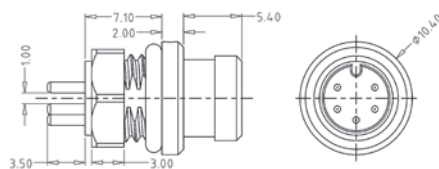
HIGO



SIGNAL CONNECTORS MINI B PANEL MOUNT



FEMALE END



MALE END

ARTICLE NUMBER BUILD-UP:

Number of poles:
2 up to 6

02: With solder cup contacts without wires
03: With solder cup contacts with wires
04: With straight PCB contacts

Z * 09 B * C * * * * *

M: Female
G: Male

oo: No cable

Cable length in mm

CHARACTERISTICS

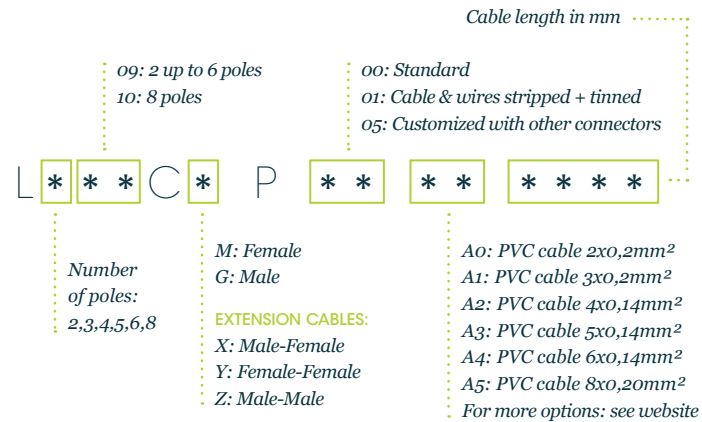
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP66
Mating Cycles:	200 times
Outside Diameter:	9,0mm
Fitting Length:	62,0mm
Wire Specification:	0,14mm ² / 0,2mm ²

CONNECTOR

SIGNAL CONNECTORS MINI C PLUG

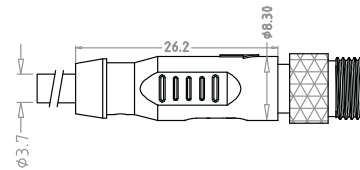


ARTICLE NUMBER BUILD-UP:

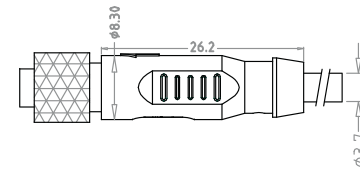


CHARACTERISTICS

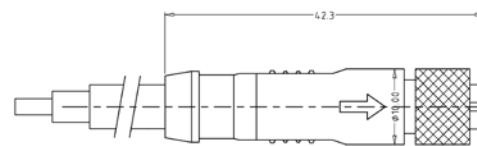
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	9,0mm
Fitting Length:	68,6mm (2-6p) / 80,0mm (8p)
Wire Specification:	0,14mm ² / 0,2mm ²



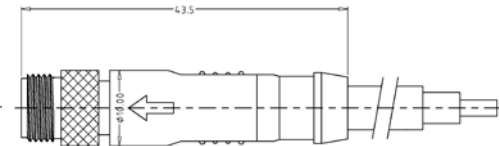
MALE END 2-6 POLE VERSION



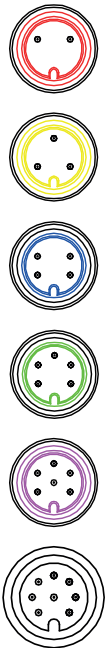
FEMALE END 2-6 POLE VERSION



FEMALE END 8- POLE VERSION



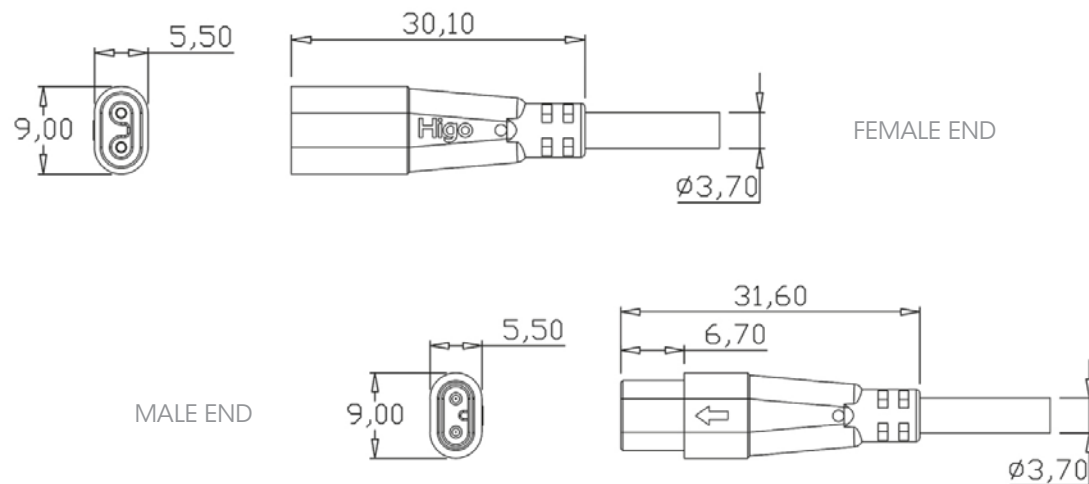
MALE END 8- POLE VERSION



HIGO



SIGNAL CONNECTORS MINI E PLUG



ARTICLE NUMBER BUILD-UP:

Cable length in mm

D7: PVC cable 2x0,2mm²
A0: PVC cable 2x0,2mm²

Z209E * P * * * * *

M: Female
G: Male

00: Standard
01: Cable & wires stripped + tinned
05: Customized with other connectors

CHARACTERISTICS

Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP66
Mating Cycles:	200 times
Outside Diameter:	9,0mm
Fitting length:	55,0mm
Wire Specification:	0,2mm ²

CONNECTOR

SIGNAL CONNECTORS MINI F PLUG



ARTICLE NUMBER BUILD-UP:

Number of poles:
2 up to 9

Cable length in mm

oo: Standard
01: Cable & wires stripped + tinned
05: Customized with other connectors

Z * 09 F * P * * * * *

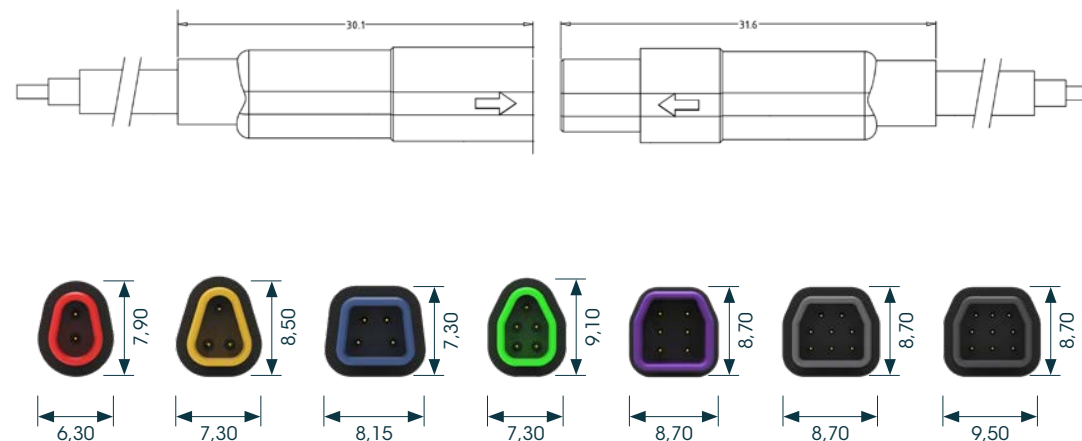
M: Female
G: Male

EXTENSION CABLES:
X: Male-Female
Y: Female-Female
Z: Male-Male

Ao: PVC cable 2 x 0,2mm²
AW: TPU cable 2 x 0,14mm²
A1: PVC cable 3 x 0,2mm²
AX: TPU cable 3 x 0,2mm²
A2: PVC cable 4 x 0,14mm²
AY: TPU cable 4 x 0,14mm²
A3: PVC cable 5 x 0,14mm²
TH: TPU cable 5x0,12mm²
A4: PVC cable 6x0,14mm²
DL: PVC cable 8x0,14mm²
DN: PVC cable 9x0,15mm²
For more options: see website

FEMALE PLUG

MALE PLUG



CHARACTERISTICS

Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP66/IP67
Mating Cycles:	200 times
Fitting Length:	55,0mm
Wire Specification:	0,12mm ² / 0,2mm ²



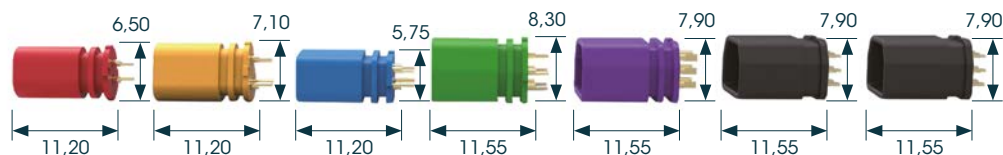
HIGO



SIGNAL CONNECTORS MINI F **PANEL MOUNT**



Covers for male and female connectors available from 2 to 8 poles



ARTICLE NUMBER BUILD-UP:

Number of poles:
2 up to 9

04: With straight PCB contacts

Z * 09 F * C * * 00 0000

M: Female
G: Male

00: No cable

Cable length in mm

Female only available in 2,3,6 and 8 poles
Contact our sales team for a tailor made backshell for your design

CHARACTERISTICS

Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP66/IP67
Mating Cycles:	200 times

CONNECTOR

SIGNAL CONNECTORS MINI F ANGLED PLUG



ARTICLE NUMBER BUILD-UP:

Number of poles:
2 up to 9

oo: Standard
o1: Cable & wires stripped + tinned
o5: Customized with other connectors

Cable length in mm

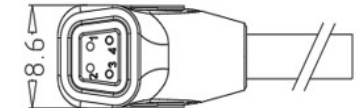
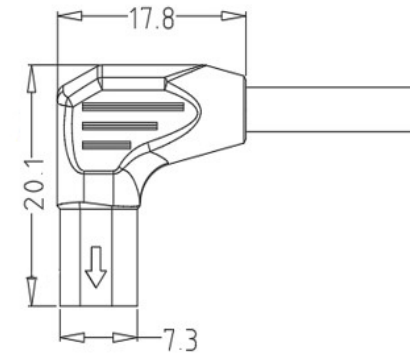
Z * 09 F * A * * * * *

M: Female
G: Male

A: Angled plug

A2: PVC cable 4 x 0,14mm²
AY: TPU cable 4 x 0,14mm²

EXTENSION CABLES:
X: Male-Female
Y: Female-Female
Z: Male-Male



CHARACTERISTICS

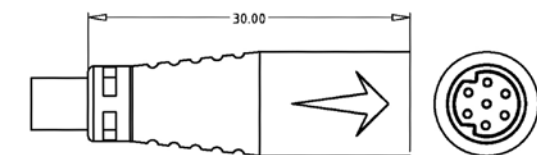
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP66
Mating Cycles:	200 times
Outside Diameter:	8,6mm x 7,3mm
Wire Specification:	0,14mm ² - 0,2mm ²



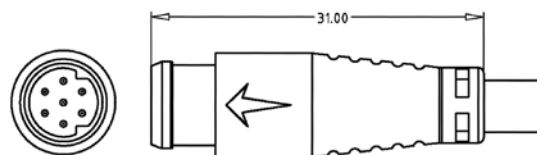
HIGO

NEW

SIGNAL CONNECTORS **PLUG**



FEMALE END



MALE END



ARTICLE NUMBER BUILD-UP:

00: Standard
01: Cable & wires stripped + tinned
05: Customized with other connectors

Cable length in mm

Z710A* P ** ** * * * *

Number of poles : 7 M: Female G: Male

FL: PVC Cable, OD4,00mm, 7x0,14mm²

CHARACTERISTICS

Temperature Range: -25°C up to +80°C

Rated Voltage: 48V AC / 60V DC

Rated Current: 2A

Contact Resistance: ≤10mΩ

Insulation Resistance: ≥20MΩ

Protection Level: IPX7

Mating Cycles: 200 times

Outside Diameter: 10,0mm

Fitting Length: 55,0mm

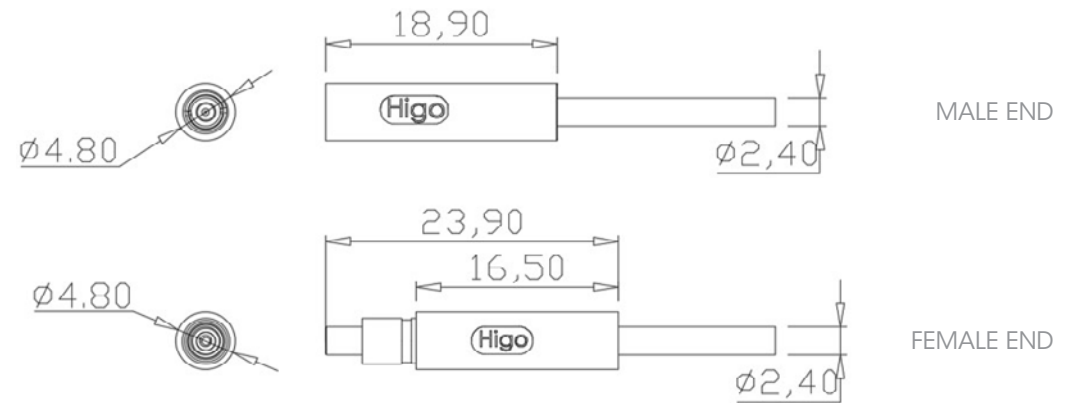
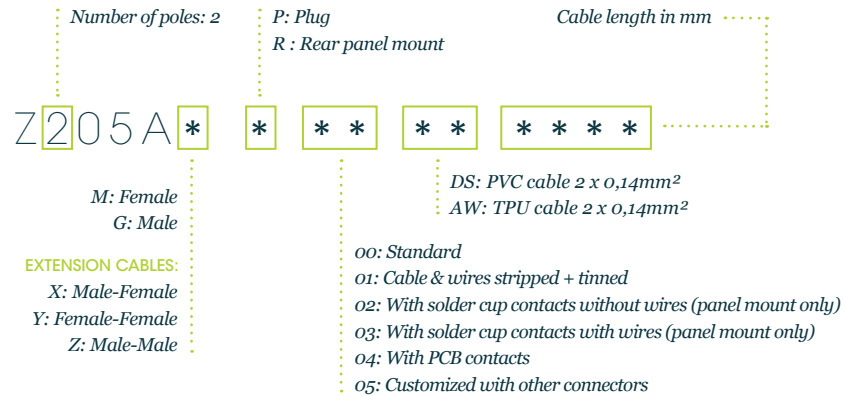
Wire Specification: 0,14mm²

CONNECTOR

SIGNAL CONNECTORS MICRO A PLUG & PANEL MOUNT



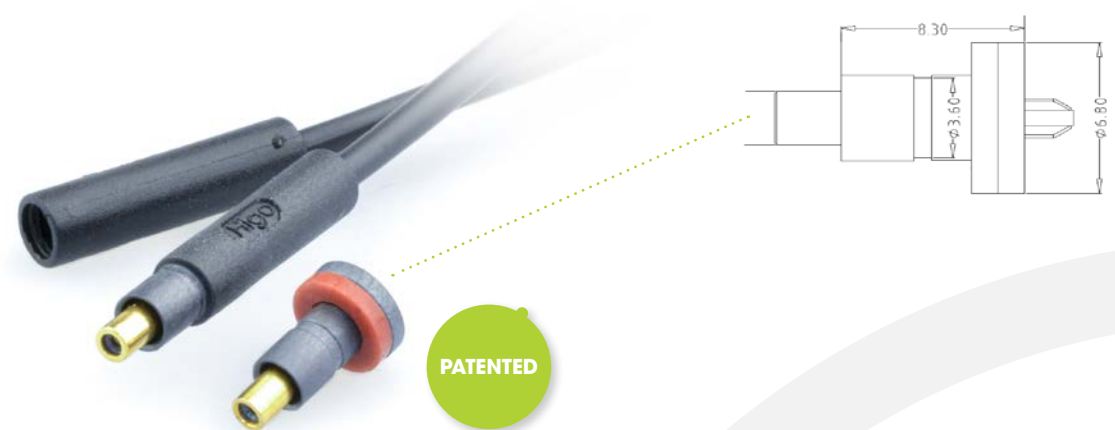
ARTICLE NUMBER BUILD-UP:



FEMALE PANEL MOUNT

CHARACTERISTICS

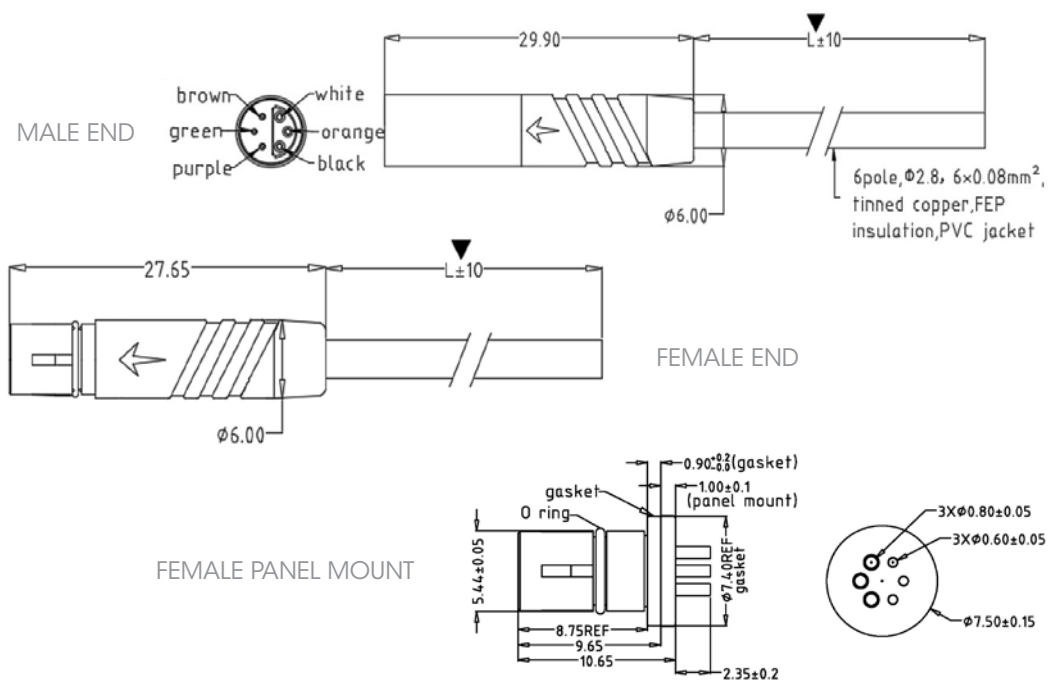
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC/DC
Rated Current:	2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	4,8mm
Fitting Length:	35,4mm
Wire Specification:	0,14mm ²



HIGO

NEW

SIGNAL CONNECTORS MICRO D PLUG & PANEL MOUNT

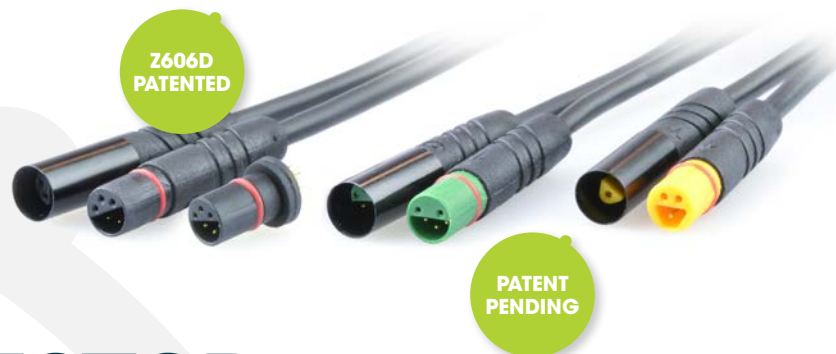


ARTICLE NUMBER BUILD-UP:

Number of poles: 3, 5, 6		Cable length in mm	
oo: Standard		01: Cable & wires stripped + tinned	
		05: Customized with other connectors	
Z	*06D*	*	* * * *
M: Female G: Male		P: Plug C: Panel Mount	FG: PVC cable, 3x0,14mm ² FW: PVC cable, 5x0,08mm ² DY: PVC cable, 6x0,08mm ²
EXTENSION CABLES: X: Male-Female Y: Female-Female Z: Male-Male			

CHARACTERISTICS

Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	50 times
Outside Diameter:	6,0mm
Fitting Length:	50,0mm
Wire Specification:	3 x 0,14mm ² / 5 x 0,08mm ² / 6 x 0,08mm ²



CONNECTOR

SIGNAL

SIGNAL CONNECTORS

MAIN PLUG



ARTICLE NUMBER BUILD-UP:

Number of poles: 12
00: Standard
01: Cable & wires stripped + tinned
05: Customized with other connectors

Z1211A* P** ** ****

M: Female
G: Male

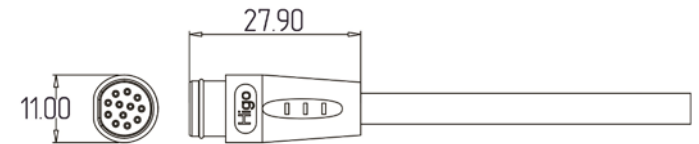
DW: PVC cable 12x0,14mm²

Cable length in mm

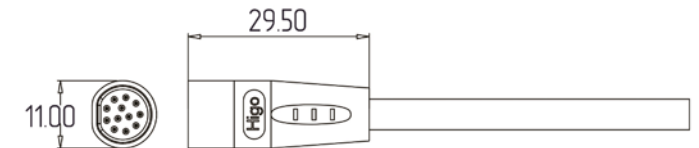
CHARACTERISTICS

Temperature Range: -25°C up to +80°C
Rated Voltage: 48V AC / 60V DC
Rated Current: 2A
Contact Resistance: ≤10mΩ
Insulation Resistance: ≥20MΩ
Protection Level: IP67
Mating Cycles: 200 times
Outside Diameter: 11,0mm
Fitting Length: 53,0mm
Wire Specification: 0,14mm²

FEMALE END



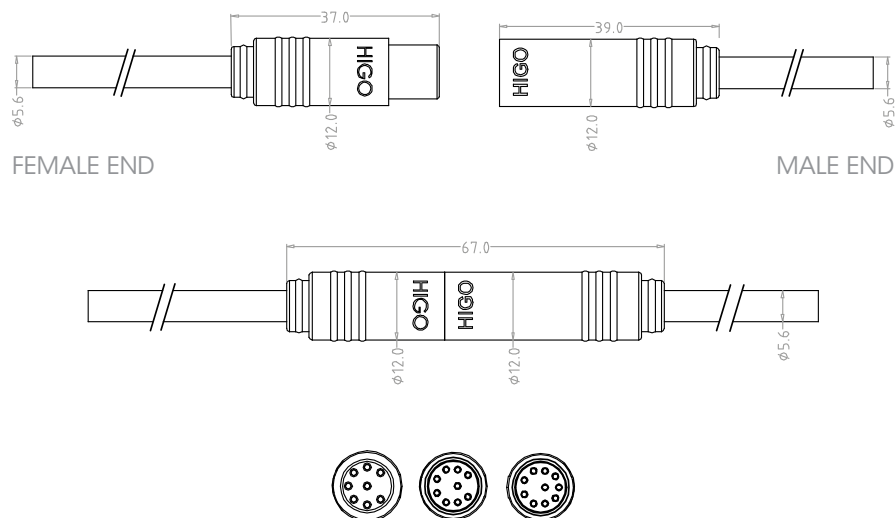
MALE END



HIGO



SIGNAL CONNECTORS **MAIN PLUG**



ARTICLE NUMBER BUILD-UP:

Number of poles: 8 up to 10		Cable length in mm												
Z	*	1	2	A	P	*	*	*	*	...				
M: Female G: Male		00: Standard 01: Cable & wires stripped + tinned 05: Customized with other connectors												
EXTENSION CABLES: X: Male-Female Y: Female-Female Z: Male-Male		A5: PVC cable 8x0,2mm ² A6: PVC cable 9x0,2mm ² A7: PVC cable 10x0,2mm ²												

CHARACTERISTICS

Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP66
Mating Cycles:	200 times
Outside Diameter:	12,0mm
Fitting Length:	67,0mm
Wire Specification:	0,2mm ²

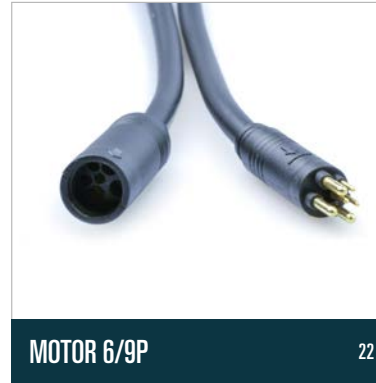
CONNECTOR





'Where does the E-mobility market take us? What's the next big thing? And how can we add value to this? Staying ahead of what's coming is never easy. Of course, we're fortunate to be able to listen to product development plans of many E-mobility entrepreneurs every day. This pretty much gives us a good indication as to where we should focus on. Finding the blind spots in our range and coming up with smart solutions that help realizing a customer's great project, that's what makes me tick.'

Kristof Van Wetering, Product manager A&C Solutions



MOTOR 6/9P

22



MOTOR 3P

23 - 24



MOTOR 9P

25 - 26



MOTOR 10P

27



MOTOR 11P

28 - 29



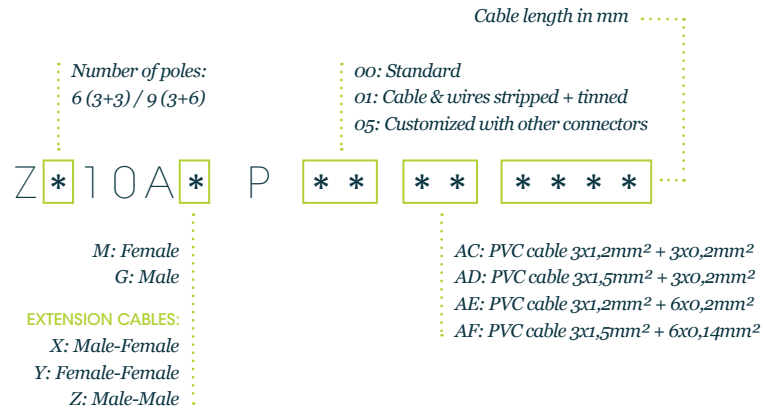
MOTOR 3 & 10P SCREW LOCKING

30 - 31

MOTOR CONNECTORS **PLUG**

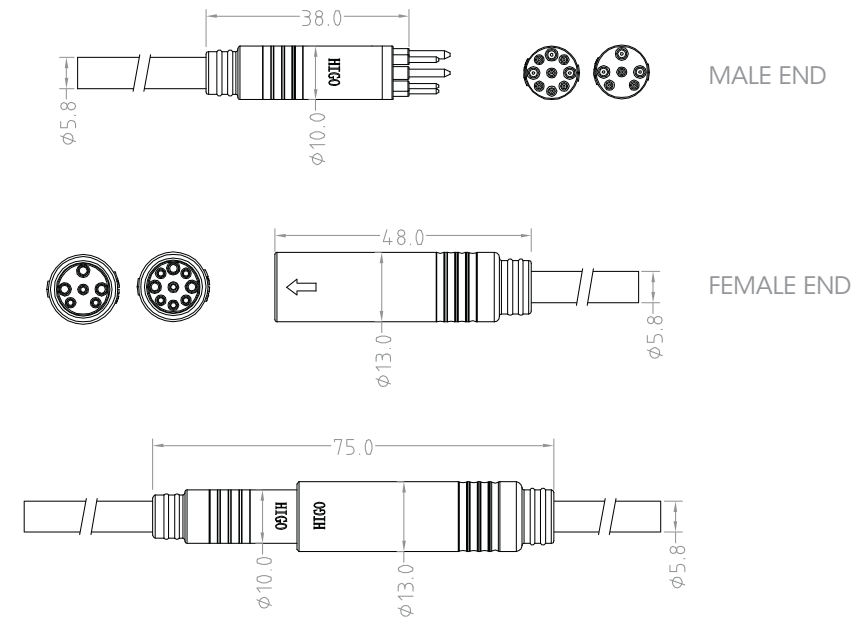


ARTICLE NUMBER BUILD-UP:



CHARACTERISTICS

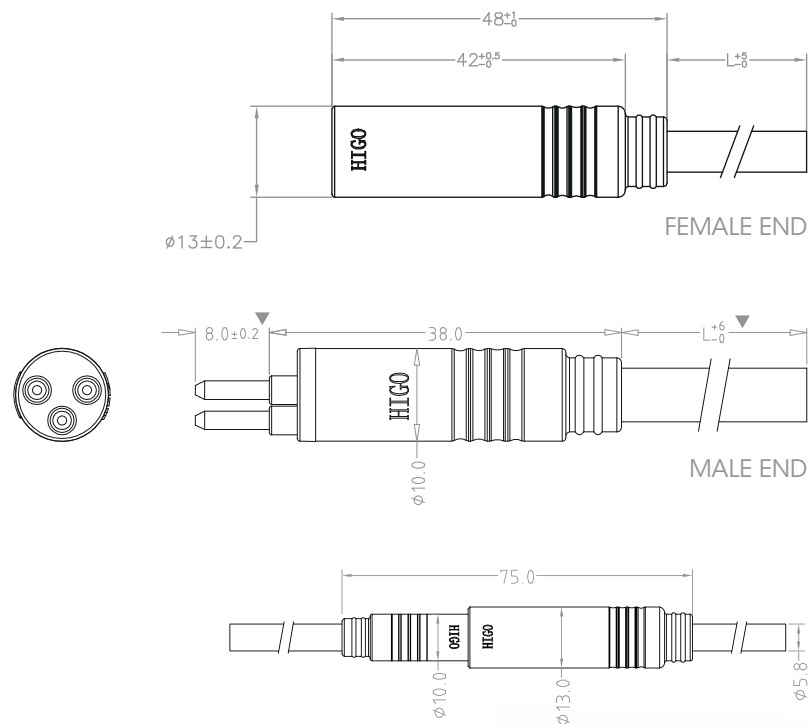
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	15A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP66
Mating Cycles:	200 times
Outside Diameter:	13,0mm
Fitting Length:	75,0mm
Wire Specification:	1,2mm ² / 1,5mm ² +0,2mm ²



HIGO



MOTOR CONNECTORS **PLUG**



ARTICLE NUMBER BUILD-UP:

		Cable length in mm													
Number of poles: 3		00: Standard													
		01: Cable & wires stripped + tinned													
		05: Customized with other connectors													
Z	3	1	0	B	*	P	*	*	*	*	*	*	*	*	*
M: Female															
G: Male															
EXTENSION CABLES:															
X: Male-Female															
Y: Female-Female															
Z: Male-Male															
								</							

CHARACTERISTICS

Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	15A / 25A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP66
Mating Cycles:	200 times
Outside Diameter:	10,0mm / 13,0mm
Fitting Length:	75,0mm
Wire Specification:	1,2mm ² / 1,5mm ² / 2,0mm ²

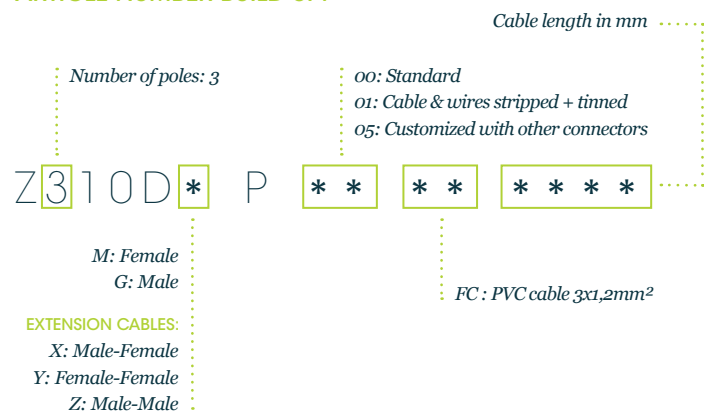
CONNECTOR



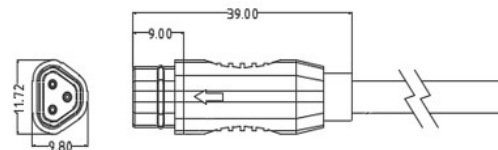
MOTOR CONNECTORS **PLUG**



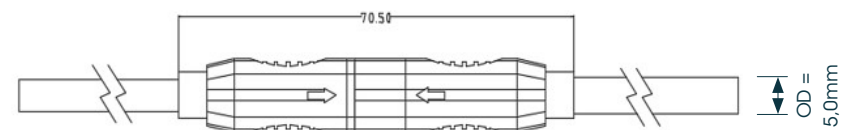
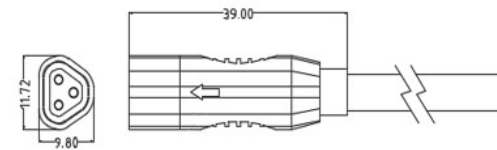
ARTICLE NUMBER BUILD-UP:



MALE END



FEMALE END



CHARACTERISTICS

Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	15A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	11,72mm x 9,8mm
Fitting Length:	71,0mm
Wire Specification:	1,2mm ²

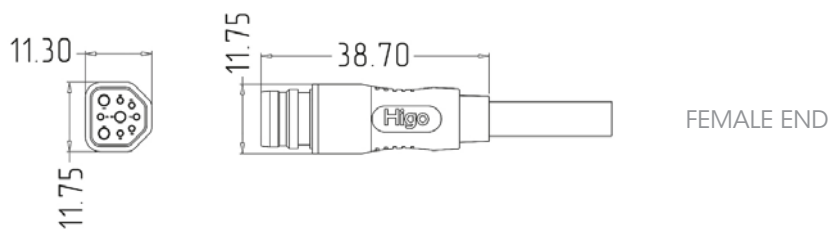
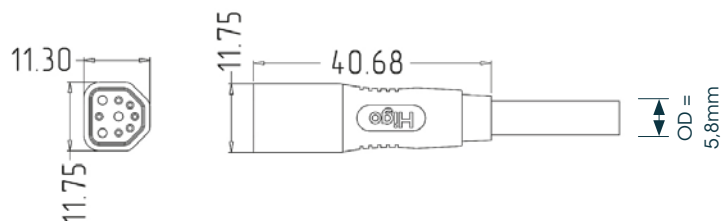


HIGO



MOTOR CONNECTORS **PLUG**

MALE END



ARTICLE NUMBER BUILD-UP:

Number of poles: 9 (3+6)				Cable length in mm			
Z 9 1 3 B *				P * * * * *			
M: Female G: Male				00: Standard 01: Cable & wires stripped + tinned 05: Customized with other connectors			
EXTENSION CABLES: X: Male-Female Y: Female-Female Z: Male-Male				AF: PVC cable 3x1,5mm ² + 6x0,14mm ²			

CHARACTERISTICS

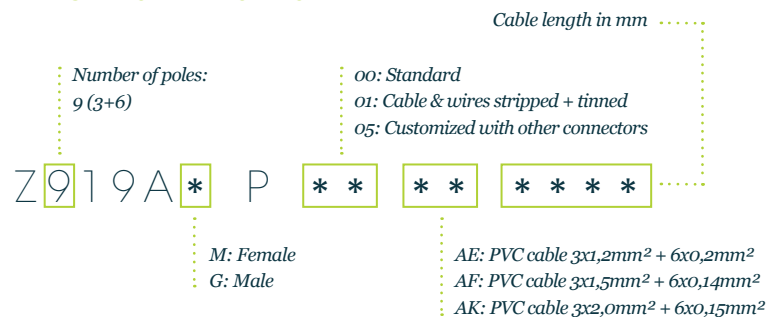
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	15A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	11,75mm x 11,30mm
Fitting Length:	70,7mm
Wire Specification:	3 x 1,5mm ² + 6 x 0,14mm ² / 3 x 1,2mm ² + 6 x 0,2mm ²

CONNECTOR

MOTOR CONNECTORS **PLUG**

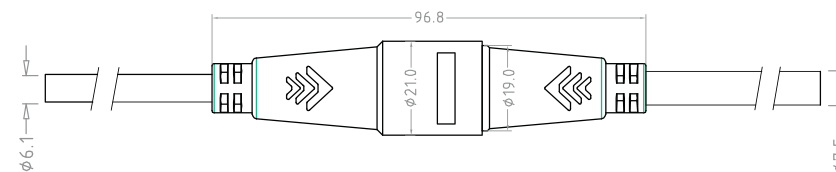
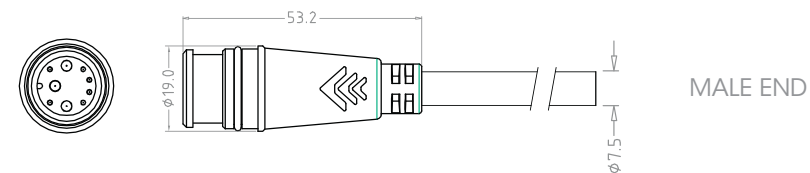
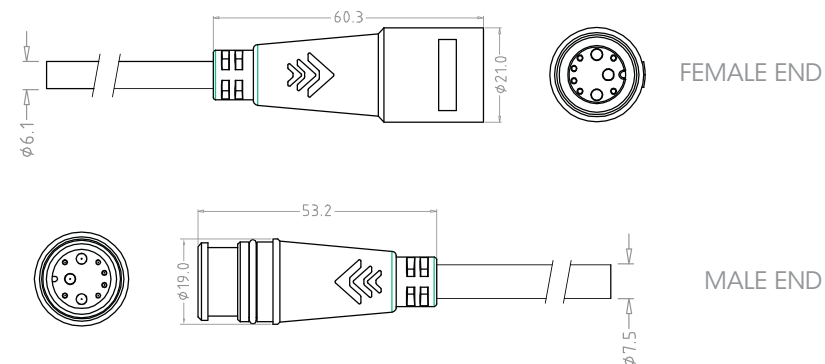


ARTICLE NUMBER BUILD-UP:



CHARACTERISTICS

Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	45A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP66
Contact Durability:	200 times
Outside Diameter:	21,0mm
Fitting Length:	96,8mm
Wire Specification:	2,0mm ² + 0,15mm ²

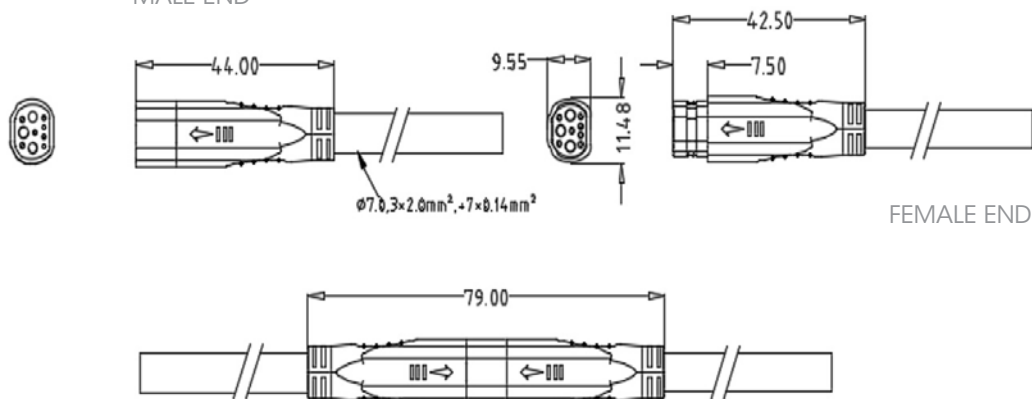


HIGO



MOTOR CONNECTORS **PLUG**

MALE END



ARTICLE NUMBER BUILD-UP:

Number of poles: 3+7		Cable length in mm 00: Standard 01: Cable & wires stripped + tinned 05: Customized with other connectors			
Z	1012B*	P	* *	* *	* * * *
M: Female G: Male		FB : PVC cable 3x2,0mm ² +7x0,14mm ²			
EXTENSION CABLES: X: Male-Female Y: Female-Female Z: Male-Male					

CHARACTERISTICS

Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	20A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	11,48mm x 9,55mm
Fitting Length:	79,0mm
Wire Specification:	3 x 2,0mm² + 7 x 0,14mm² / 3 x 1,5mm² + 7 x 0,14mm²

CONNECTOR

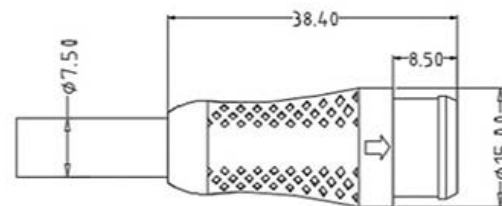
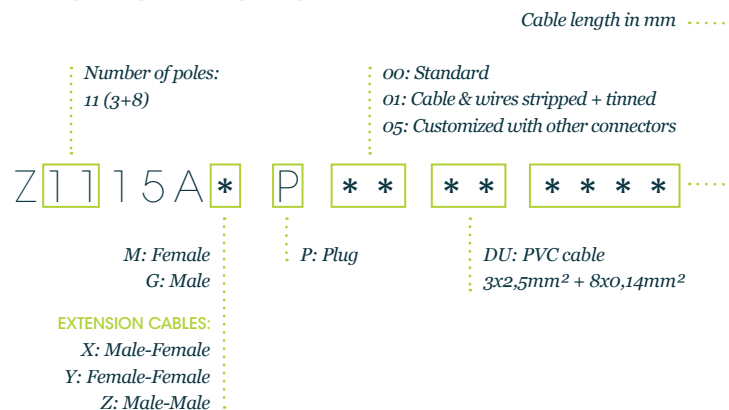


MOTOR

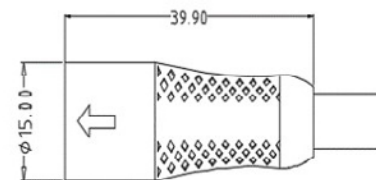
MOTOR CONNECTORS **PLUG**



ARTICLE NUMBER BUILD-UP:



MALE END



FEMALE END

CHARACTERISTICS

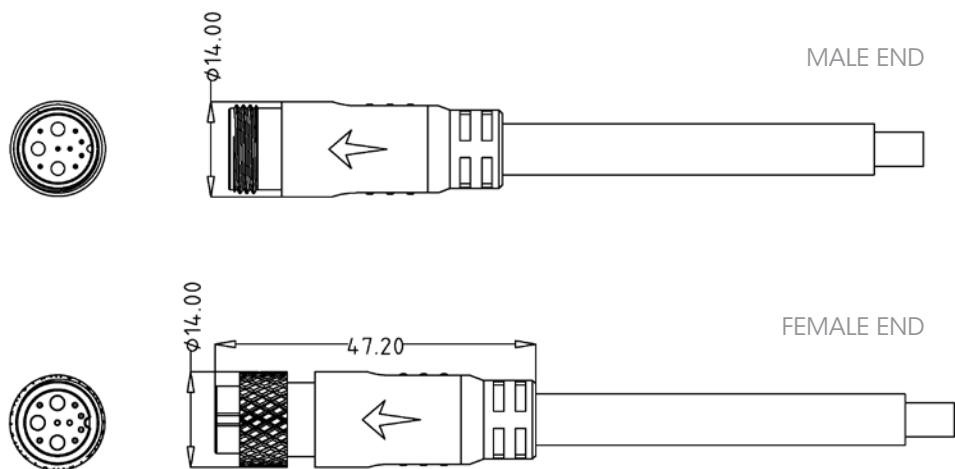
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	25A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	15,0mm
Fitting Length:	70,0mm
Wire Specification:	3 x 2,5mm ² + 8 x 0,14mm ²



HIGO

NEW

MOTOR CONNECTORS **PLUG**



ARTICLE NUMBER BUILD-UP:

Number of poles: 11 (8+3)	oo: Standard o1: Cable & wires stripped + tinned o5: Customized with other connectors
L1114A*	P**
M: Female G: Male	FF: PVC cable 3x2,0mm ² +8x0,14mm ²
EXTENSION CABLES: X: Male-Female Y: Female-Female Z: Male-Male	Cable length in mm



CHARACTERISTICS

Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	20A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	14,0mm
Fitting Length:	80,0mm
Wire Specification:	2,0mm ² / 0,14mm ²

CONNECTOR

MOTOR

MOTOR CONNECTORS **PLUG**



ARTICLE NUMBER BUILD-UP:

Number of poles: 3

00: Standard
01: Cable & wires stripped + tinned
05: Customized with other connectors

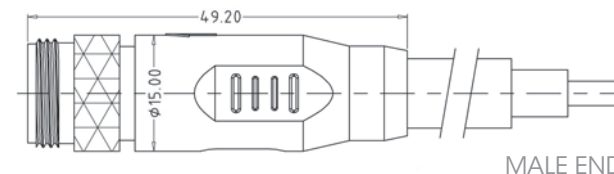
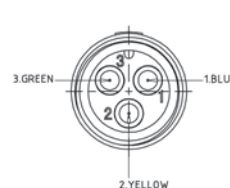
L **3** 1 5 A ***** P ***** ***** ***** ***** ***** *****

M: Female
G: Male

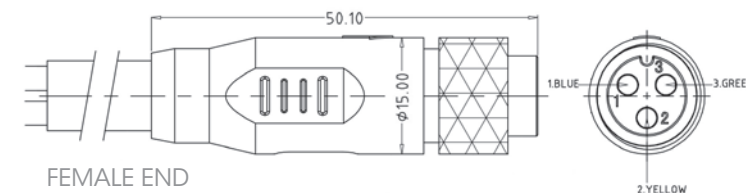
EXTENSION CABLES:
X: Male-Female
Y: Female-Female
Z: Male-Male

B8: PVC cable 3x4,0mm²

Cable length in mm



MALE END



FEMALE END

CHARACTERISTICS

Temperature Range: -25°C up to +80°C

Rated Voltage: 48V AC / 60V DC

Rated Current: 45A

Contact Resistance: ≤10mΩ

Insulation Resistance: ≥20MΩ

Protection Level: IP67

Mating Cycles: 200 times

Outside Diameter: 15,0mm

Fitting Length: 90,0mm

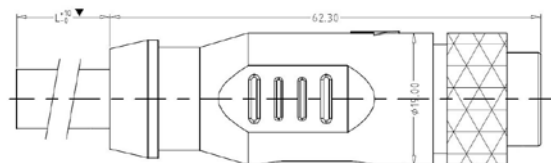
Wire Specification: 3 x 4,0mm²



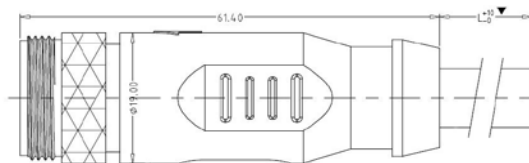
HIGO



MOTOR CONNECTORS **PLUG / PANEL**

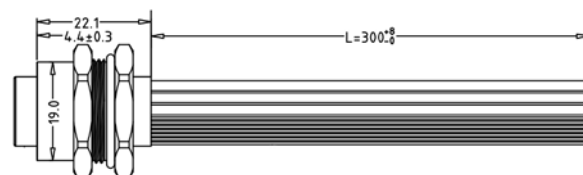


FEMALE END



MALE END

FEMALE REAR PANEL MOUNT



ARTICLE NUMBER BUILD-UP:

Number of poles: 10 (3+7)		00: Standard	
		01: Cable & wires stripped + tinned	
		03: With solder cup contacts with wires	
		05: Customized with other connectors	
L1019A*		*	**
M: Female G: Male		**	***
EXTENSION CABLES: X: Male-Female Y: Female-Female Z: Male-Male		AZ: PVC cable 3x4,0mm ² + 7x0,14mm ² DQ: Single wires, 3x4,0mm ² +7x0,20mm ²	
		P: Plug C: Front panel mount R: Rear panel mount	Cable length in mm

CHARACTERISTICS

Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	45A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	19,0mm
Fitting Length:	114,0mm
Wire Specification:	3 x 4,0mm ² + 7 x 0,14mm ²



CONNECTOR



'There where we feel we can step up, we challenge ourselves to come up with more reliable and professional solutions. The new designs in the battery connector range are good examples of this. By adding key features like self-locking mechanisms and by combining charging and discharging of batteries into one connector, we enhance the user friendliness of our products and we broaden our scope.'

Franky Vanlerberghe, CEO A&C Solutions



BATTERY 2 & 3P

34 - 36



BATTERY 4P

37



BATTERY 5P SCREW LOCKING

38



BATTERY 6P

39 - 43



BATTERY 8P SELF-LOCKING

44 - 45



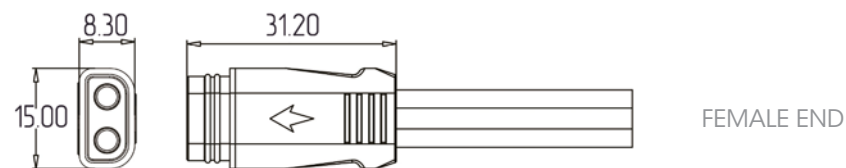
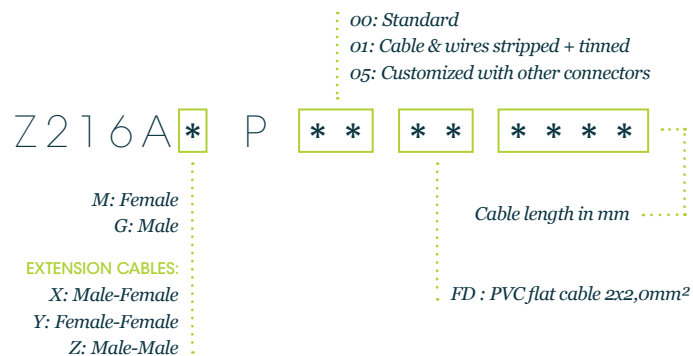
BATTERY 9P

46

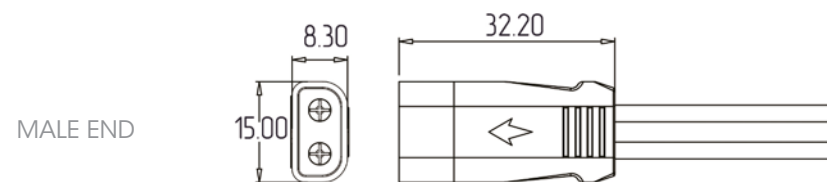
BATTERY CONNECTORS



ARTICLE NUMBER BUILD-UP:



FEMALE END



MALE END

CHARACTERISTICS

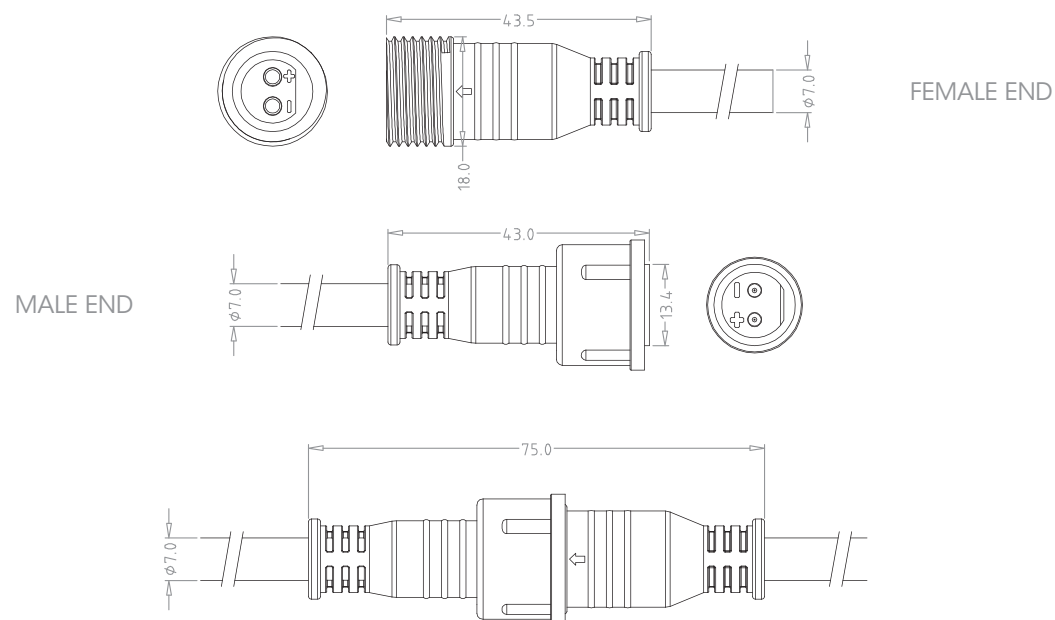
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	25A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	15,0mm x 8,30mm
Fitting Length:	51,0mm
Wire Specification:	2,0mm ²



HIGO



BATTERY CONNECTORS



FEMALE END

MALE END



ARTICLE NUMBER BUILD-UP:

L218A* P ** ** * * * *

M: Female
G: Male

00: Standard
01: Cable & wires stripped + tinned
05: Customized with other connectors

AM: PVC cable 2x2,5mm²
Cable length in mm

CHARACTERISTICS

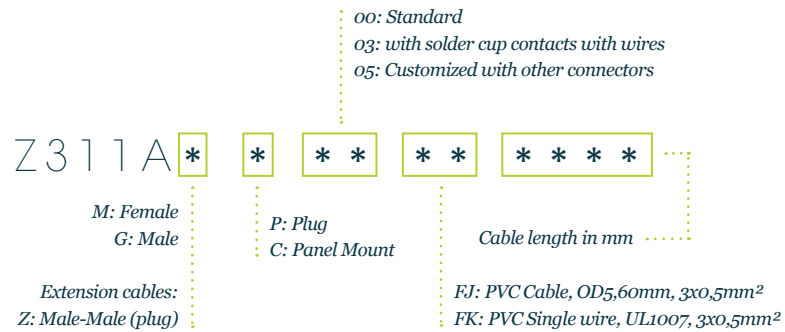
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	25A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Terminal Material:	Copper Alloy (Gold or Silver Plated)
Protection Level:	IP67
Contact Durability:	200 times
Outside Diameter:	19,0mm
Fitting Length:	75,0mm
Wire Specification:	2,5mm ²

CONNECTOR

BATTERY CONNECTORS

NEW

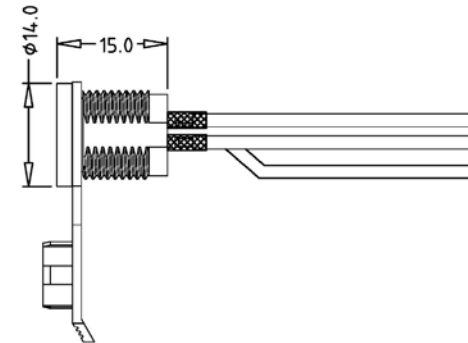
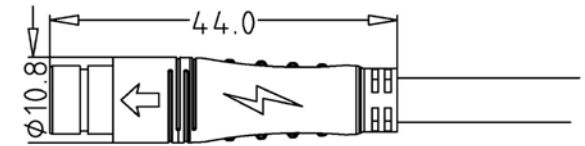
ARTICLE NUMBER BUILD-UP:



CHARACTERISTICS

Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	5A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP66
Mating Cycles:	200 times
Outside Diameter:	10,8mm (P) / 14,0mm (C)
Wire Specification:	0,5mm ²

MALE PLUG



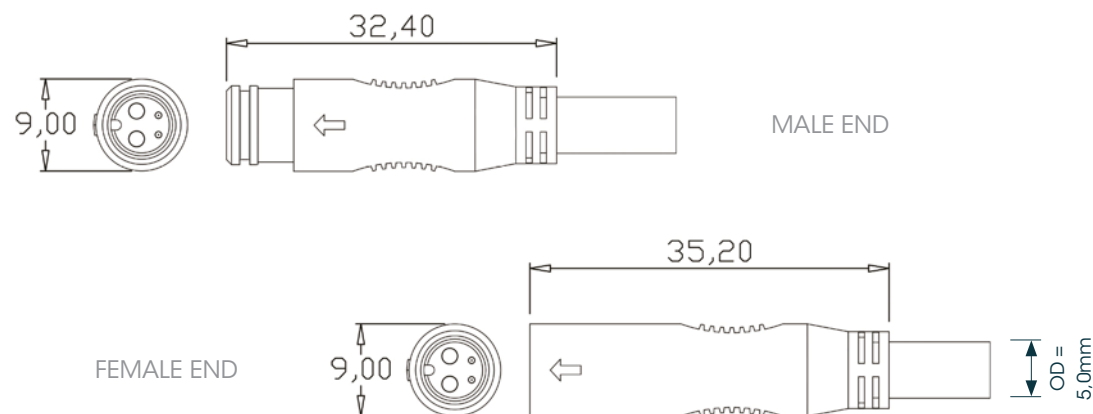
FEMALE PANEL MOUNT



HIGO



BATTERY CONNECTORS



ARTICLE NUMBER BUILD-UP:

Number of poles: 4 (2+2)	00: Standard 01: Cable & wires stripped + tinned 05: Customized with other connectors
Z409E* P	* * * * *
M: Female G: Male	Cable length in mm
EXTENSION CABLES: X: Male-Female Y: Female-Female Z: Male-Male	FE: PVC cable 2 x 1,0mm ² + 2x0,14mm ² D5: TPU cable 2 x 1,0mm ² + 2x0,14mm ² FT: PVC cable 2x1,3mm ² + 2x0,14mm ²

CHARACTERISTICS

Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	15A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	9,0mm
Fitting Length:	61,0mm
Wire Specification:	2 x 1,0mm ² + 2 x 0,14mm ²

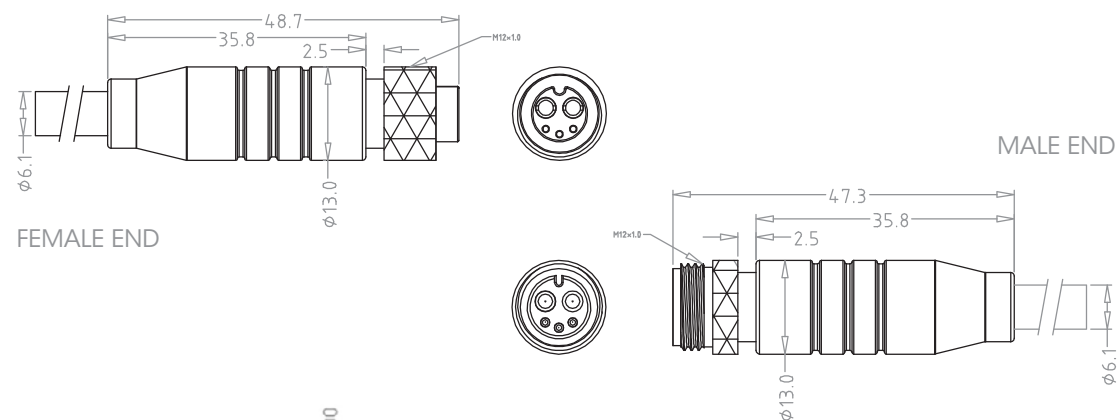
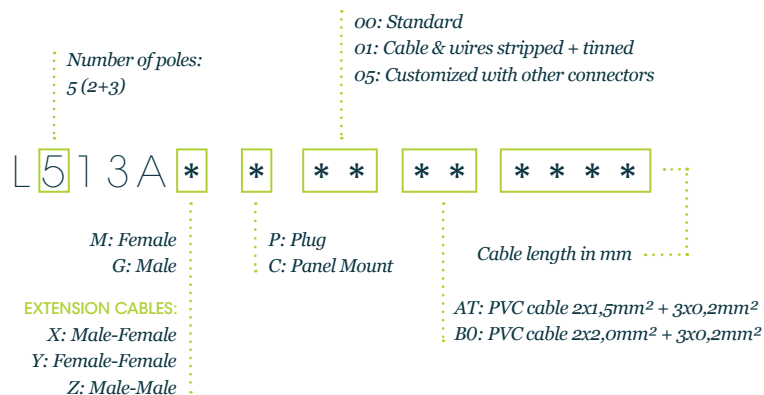
CONNECTOR



BATTERY CONNECTORS



ARTICLE NUMBER BUILD-UP:



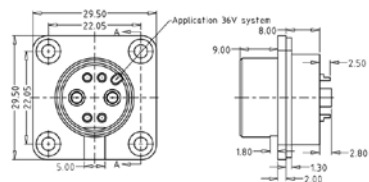
CHARACTERISTICS

Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	25A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating cycles:	200 times
Outside Diameter:	13,0mm
Fitting length:	96,0mm
Wire Specification:	1,5mm ² + 0,2mm ² / 2,0mm ² + 0,2mm ²

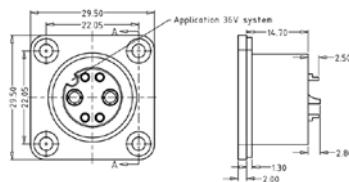


HIGO

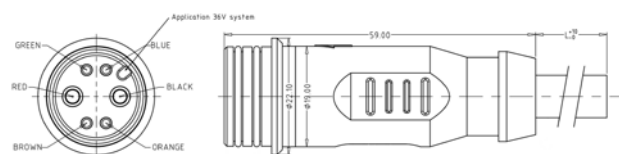
36V BATTERY CONNECTORS



MALE PANEL MOUNT



FEMALE PANEL MOUNT



MALE PLUG



ARTICLE NUMBER BUILD-UP:
(Coding only for 36v applications)

Number of poles:	00: Standard
6 (2+4)	01: Cable & wires stripped + tinned
	03: with solder cup contacts with wires
	05: Customized with other connectors

Z624C * * * *

M: Female
G: Male

- *P: Plug*
- *C: Panel Mount*

Cable length in mm

EXTENSION CABLES:

X: Male-Female
Y: Female-Female
Z: Male-Male

DR: PVC single wires 2xAWG12+4xAWG22
D1: PVC single wires 2xAWG14 + 4xAWG22
B6: PVC single wires 2xAWG16 + 4xAWG22
D9: PVC single wires 2xAWG18 + 4xAWG22
FH: TPU cable 2x2,0mm² + 4x0,34mm²

CHARACTERISTICS

Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	40A / 5A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	3000 times
Outside Diameter:	19,0mm (P) / 29,5mm (C)

CONNECTOR

48V BATTERY CONNECTORS



ARTICLE NUMBER BUILD-UP:

(Coding only for 48v applications)

Number of poles:
6 (2+4)

oo: Standard
01: Cable & wires stripped + tinned
03: with solder cup contacts with wires
05: Customized with other connectors

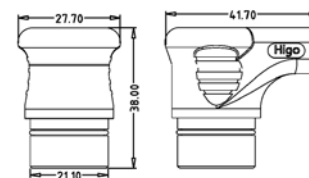
M: Female
G: Male

EXTENSION CABLES:
X: Male-Female
Y: Female-Female
Z: Male-Male

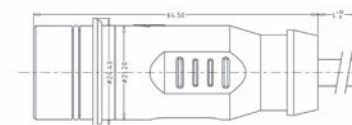
P: Plug
C: Panel Mount
A: Angled Plug

Cable length in mm

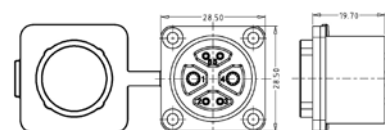
D1: PVC single wires 2xAWG14 + 4xAWG22
B6: PVC single wires 2xAWG16 + 4xAWG22
D9: PVC single wires 2xAWG18 + 4xAWG22
FH: TPU cable 2x2,0mm² + 4x0,34mm²
DR: PVC single wires 2xAWG12+4xAWG22



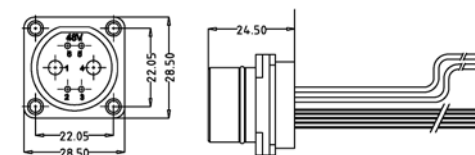
MALE ANGLED PLUG



MALE PLUG



FEMALE PANEL MOUNT



MALE PANEL MOUNT

CHARACTERISTICS

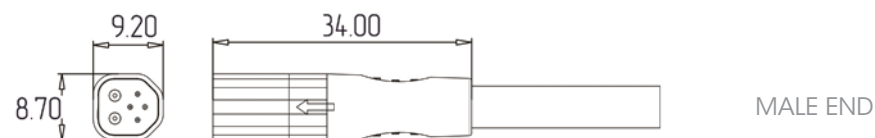
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	40A / 5A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	3000 times
Outside Diameter:	21,2mm (P) / 28,5mm (C)



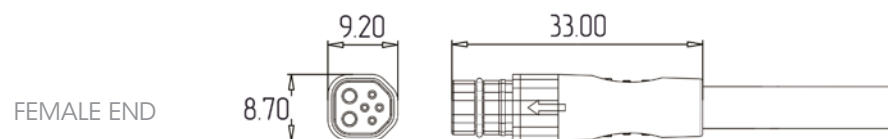
HIGO



BATTERY CONNECTORS



MALE END



FEMALE END



ARTICLE NUMBER BUILD-UP:

Number of poles:
6 (2+4)

00: Standard
01: Cable & wires stripped + tinned
05: Customized with other connectors

Z610C* P** ******

M: Female
G: Male

EXTENSION CABLES:
X: Male-Female
Y: Female-Female
Z: Male-Male

Cable length in mm

DZ : PVC cable 2x1,5mm²+4x0,14mm²

CHARACTERISTICS

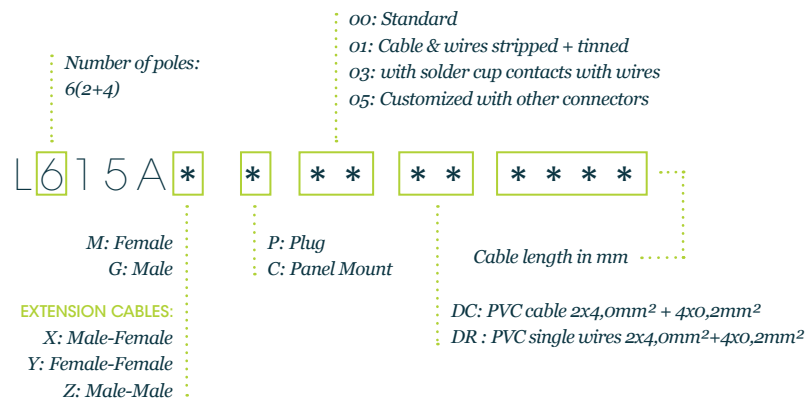
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	15A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	8,70mm x 9,20mm
Fitting length:	59,0mm
Wire Specification:	2 x 1,5mm ² + 4 x 0,14mm ²

CONNECTOR

BATTERY CONNECTORS



ARTICLE NUMBER BUILD-UP:



CHARACTERISTICS

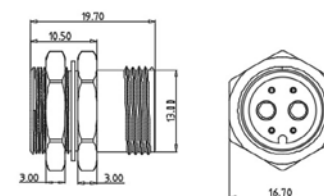
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	45A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside diameter:	15,0mm
Fitting length:	77,5mm
Wire Specifications:	2 x 4,0mm ² / 4 x 0,2mm ²



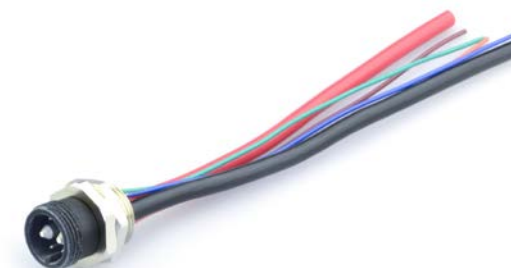
MALE END



FEMALE END



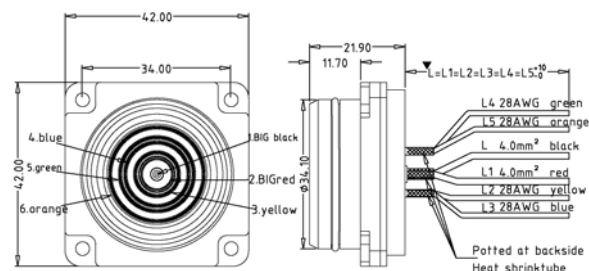
MALE FRONT PANEL MOUNT



HIGO

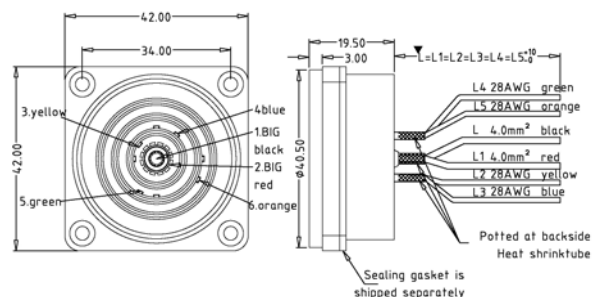


BATTERY CONNECTORS



MALE END

FEMALE END



PATENT
PENDING



ARTICLE NUMBER BUILD-UP:

Number of poles:
6 (2+4)

oo: Standard
01: Cable & wires stripped + tinned
02: With solder cup contacts without wires
03: With solder cup contacts with wires
05: Customized with other connectors

Z 6 4 2 B * C * * * * *

M: Female
G: Male

EXTENSION CABLES:
X: Male-Female
Y: Female-Female
Z: Male-Male

Cable length in mm

D1: PVC single wires 2xAWG14 + 4xAWG22
B6: PVC single wires 2xAWG16 + 4xAWG22
D9: PVC single wires 2xAWG18 + 4xAWG22
DR: PVC single wires 2x4,0mm² + 4x0,2mm²

CHARACTERISTICS

Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	40A / 5A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IPX7
Mating Cycles:	200 times
Outside diameter:	47,0mm x 42,0mm
Fitting length:	30,0mm
Wire Specification:	2 x 4,0mm² / 4 x 0,08 ~ 1,0mm²

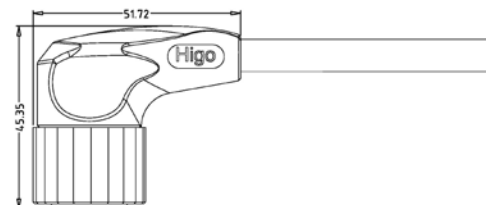
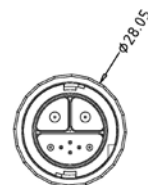
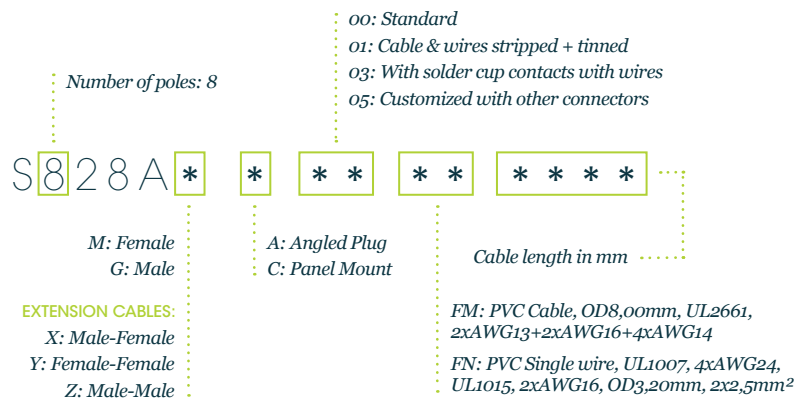
CONNECTOR

BATTERY CONNECTORS

CHARGING & DISCHARGING IN 1, SELF-LOCKING

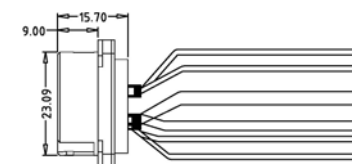
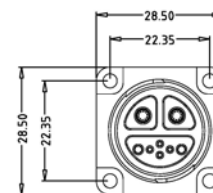
NEW

ARTICLE NUMBER BUILD-UP:



MALE PLUG

FEMALE PANEL MOUNT



CHARACTERISTICS

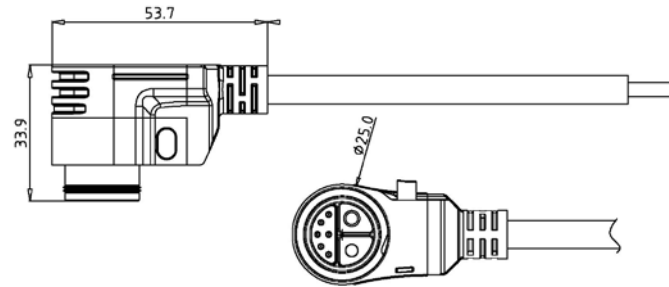
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	25A / 10A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	3000 times
Outside diameter:	28,05mm (P) / 23,09mm (C)
Wire Specifications:	2,5mm ² / 1,5mm ² / 0,8mm ²



HIGO

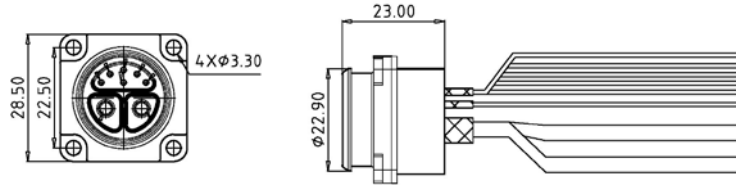
NEW

BATTERY CONNECTORS SELF-LOCKING, BUTTON RELEASE



MALE PLUG

FEMALE PANEL MOUNT



ARTICLE NUMBER BUILD-UP:

Number of poles: 8 (6+2)														00: Standard																											
A: rated current = 70A / 2A														01: Cable & wires stripped + tinned																											
B: rated current = 40A / 2A														03: With solder cup contacts with wires																											
														05: Customized with other connectors																											
S	8	2	4	*	*	*	*	*	*	*	*	*	*	*	*	*																									
M: Female														P: Plug														Cable length in mm													
G: Male														C: Panel Mount																											
EXTENSION CABLES:														A type:																											
X: Male-Female														FP: PVC cable, 2x10,0mm ² + 6x0,20mm ²																											
Y: Female-Female														FQ: PVC single wires, 2x10,0mm ² + 6x0,20mm ²																											
Z: Male-Male														B type:																											
														FR: PVC cable, 2x4,0mm ² + 6x0,20mm ²																											
														FS: PVC single wires, 2x4,0mm ² + 6x0,20mm ²																											

CHARACTERISTICS

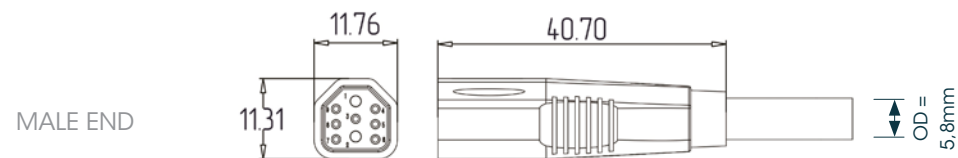
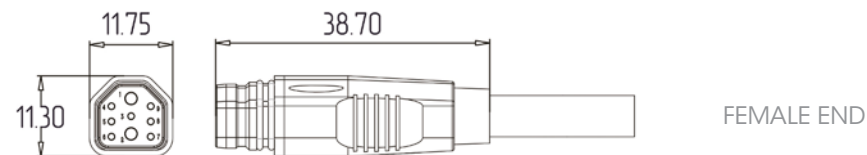
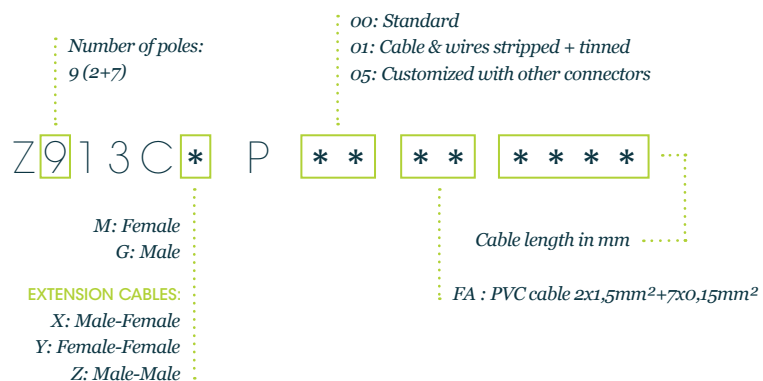
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	70A (A) or 40A (B) / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	3000 times
Outside diameter:	25,0mm ² (P) / 22,9mm ² (C) ²
Wire Specification:	6 x 0,2mm ² + 2 x 4,0mm ²

CONNECTOR

BATTERY CONNECTORS



ARTICLE NUMBER BUILD-UP:



CHARACTERISTICS

Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	15A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside diameter:	11,31mm x 11,76mm
Fitting length:	71,0mm
Wire Specification:	2 x 1,5mm ² + 7 x 0,15mm ²



HIGO

DISCOVER OUR COMPLETE CONNECTOR & POWER SUPPLY PROGRAM



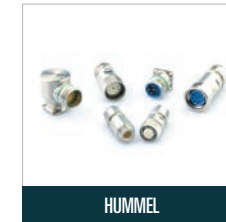
CONNECTORS

RECTANGULAR

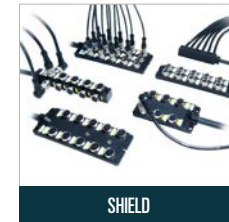


ILME

CIRCULAR

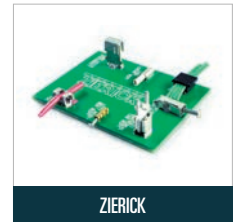


HUMMEL



SHIELD

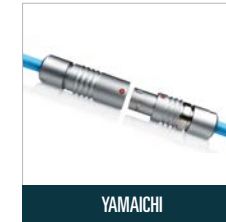
PCB



ZIERICK



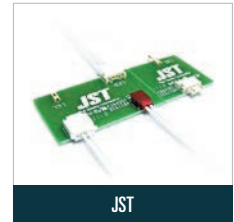
ADELS



YAMAICHI



TECHNO



JST



SHIELD / ATAM



BINDER

POWER SUPPLIES



DELTA

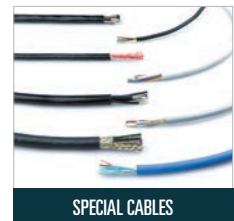


NEXTYS



DAITRON

TAILOR MADE SOLUTIONS



SPECIAL CABLES

RAILWAY



ILME



TECHNO



HUMMEL

TAILOR MADE SOLUTIONS



CABLE ASSEMBLIES



'Standard connectors just don't fit the widespread market anymore. Many of the new e-bike designs we come across require more complicated, tailor made connections. We want to be there with the right solution within a short lead time. That's why Higo recently expanded its production area with 32.000m2. It invested heavily in the further automation of its production lines and accommodated its R&D and sales department in a new location in Suzhou that is designed to quickly respond to prototype requests and perform adequate testing. In the end, we are convinced that it is the power of customization that makes the difference.'

Agostino Gobbato, Account manager A&C Solutions



CABLE HARNESSES

49



SPLITTERS

50 - 51

CABLE HARNESSSES



When you need to design your connector into a cable assembly, A&C Solutions can provide you with an interesting alternative to do this in-house at attractive conditions.

A&C Solutions works with various, certified (ISO9001) production locations in Eastern Europe and China. These plants are specialised in cable assemblies and are fully equipped with the latest technology to ensure optimal cost-efficiency.

Being a connector distributor, A&C Solutions is able to offer you the best match in custom assembly because it has:

- the stock
- the right knowledge
- the right connector tooling
- and the best price

This means that by assembling your connector with A&C Solutions, you will decrease your direct- and indirect costs substantially and at the same time you are assured that your connector is assembled according to your specifications.

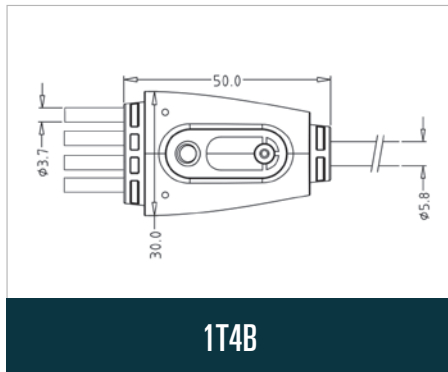
Production site



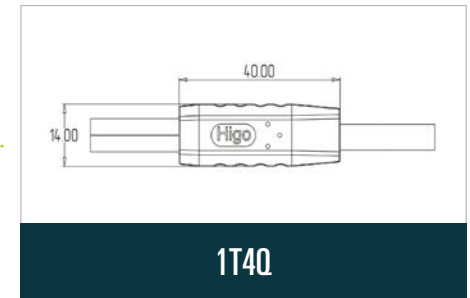
SPLITTERS



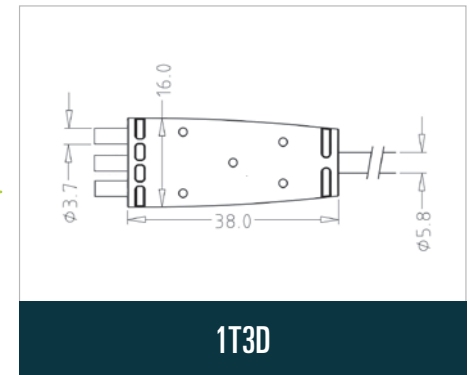
A&C Solutions offers a wide range of possibilities when it comes to customized splitters. Splitters are mainly used for the parallel circuiting of signals to other e-bike parts. But they can also simplify the wiring diagram which accelerates the actual installation process. Higo makes the installation process of splitters even more easy by working with color-coded signal connectors to prevent any wiring errors from happening.



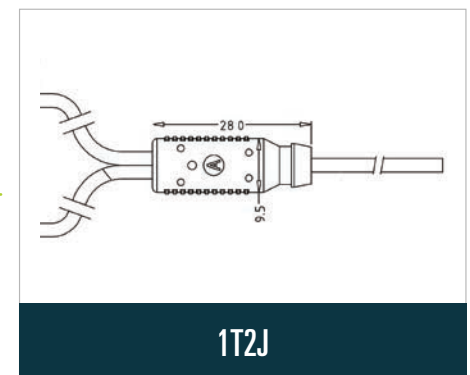
1T4B



1T4Q



1T3D



1T2J





Any kind of e-mobility splitter can be fully designed around each customer's requirements. It is up to the customer to determine the cable length, the cable type (PVC or TPU) and the level of finishing (crimped, stripped or with a different contact) needed for the application.



CONNECTORS



HIGO



HUMMEL



TECHNO



YAMAICHI



JST



ZIERICK



ILME



ADELS



SHIELD



BINDER

POWER SUPPLIES



NEXTYS



DELTA



DAITRON

A&C SOLUTIONS' MARKETS



LIGHTING INDUSTRY



E-MOBILITY



ELECTRONICS &
AUTOMATION

If you require more information, **please contact us.**



SOLUTIONS

CONNECTOR - POWER SUPPLY - ASSEMBLY

Slachthuisstraat 68 bus 6, B-2300 Turnhout
 ☎ +32 (0)14 73 53 70 - info@ac-solutions.be
www.higoconnector.com | www.ac-solutions.be



Higo[®]

HIGO TECHNOLOGY (SUZHOU) CO., LTD
 No.588 Jiayuan Road
 Xiangcheng district, Suzhou City
 Jiang, China