

Your expert from connector design to delivery





Nr. 1 manufacturer of e-bike connectors worldwide



**50.000M²
MANUFACTURING
SITES & OFFICES**

Full in-house E-bike connector manufacturing since 2008. Own cable production, tooling development, turning of contacts and complete assembly of sensors and switches. Located in Suzhou and Yancheng, China.



**BUILT ON A
STRONG R&D
FOCUS**

Leading pioneer with 200 R&D engineers and 60 patented designs. Specialisation in customized connector design.



European connector & power supply specialist



**LOCAL EXPERTS
IN KEY EUROPEAN
COUNTRIES**

+25 years of connector experience in Europe. We know the market, we speak your language and we understand your business and develop solutions accordingly.



**PROFESSIONAL
CUSTOMER
SUPPORT**

Always available during your business hours with quick feedback on your requests.



QUALITY FIRST

Our ISO 9001 organisation is based on predefined working procedures, incoming and outgoing quality checks and ongoing self-assessment.



**1000M² SITE
CENTRALLY
LOCATED IN
EUROPE**

Stockkeeping & delivery within 24 hours. JIT stockmanagement services and label options on demand.

YOUR EXPERT FROM CONNECTOR DESIGN TO DELIVERY



A&C Solutions offers a large range of standard Higo signal, battery and motor connectors directly available from stock from our European warehouse. As complementary partners we are also able to manage your fully customized cabling project for any type of e-mobility design.

Joint project management for customized solutions

Customized connectors - cable harnesses - splitters



**A&C PROFESSIONALS
IN EUROPE**



**CONCEPT
DRAWING**



**PROTOTYPE SAMPLES
& TOOLING**



**PRODUCTION &
QUALITY CHECK**

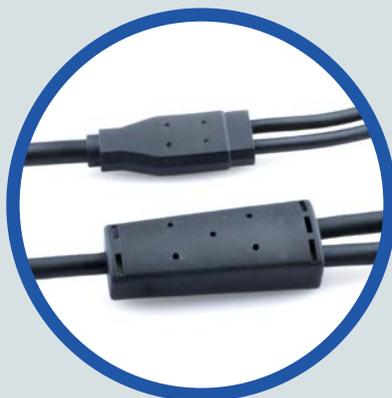


**EUROPEAN STOCK
MANAGEMENT FOR JIT
DELIVERY**

CLOSE TO YOU

WITH PRODUCTS & PEOPLE





SPLITTERS
PAGE 59 - 61



SIGNAL
PAGE 6 - 23



BATTERY
PAGE 24 - 25



MOTOR
PAGE 46 - 58



CABLE HARNESSES
PAGE 62 - 63



'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.'

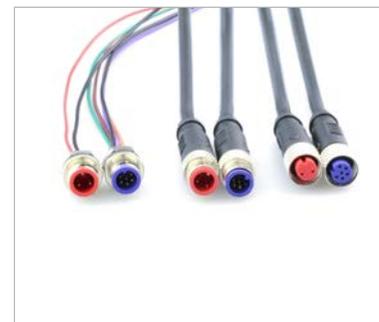
Alexis Mercieca, Business Development Manager France





SIGNAL MINI B

8 - 9



SIGNAL MINI C

10 - 11



SIGNAL MINI E

12



SIGNAL MINI F / 7-POLE PLUG

13 - 16



SIGNAL MICRO A/B/D/T

17 - 21



SIGNAL MAIN PLUG

22 - 23

SIGNAL CONNECTORS MINI B PLUG



ARTICLE NUMBER BUILD-UP:

Number of poles:
2 up to 6

Cable length in mm

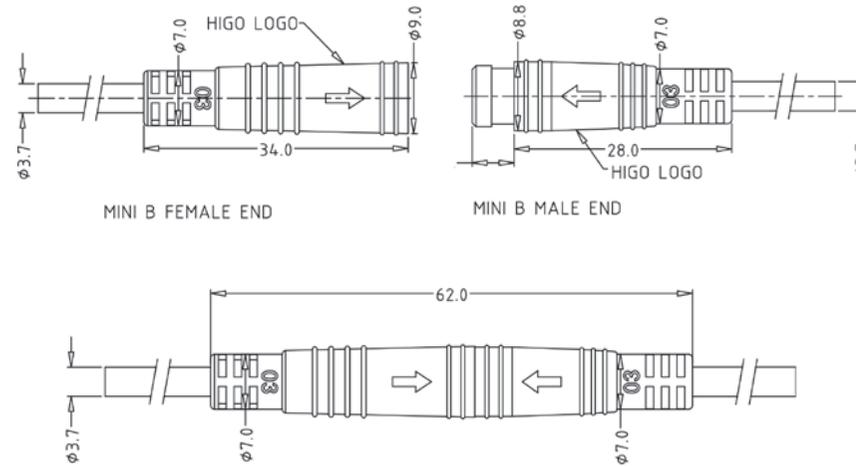
00: Standard
01: Cable & wires stripped + tinned
05: Customized with other connectors

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

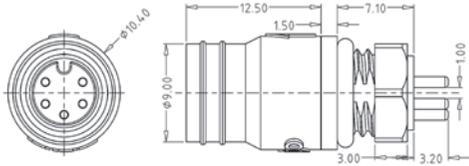
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP66
Mating Cycles:	200 times
Outside Diameter:	9,0mm
Fitting Length:	62,0mm
Wire Specification:	0,14mm ² / 0,2mm ²



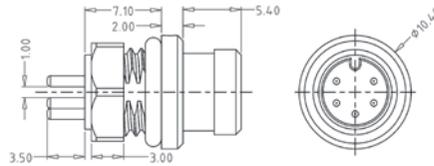
HIGO



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



Cover for male:
ZX09BG

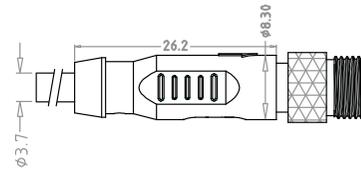
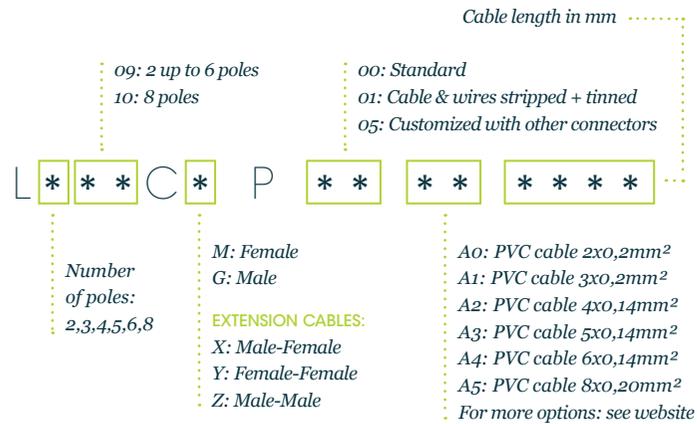
Cover for female:
ZX09BM

CONNECTOR

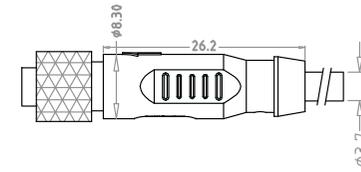
SIGNAL CONNECTORS MINI C PLUG



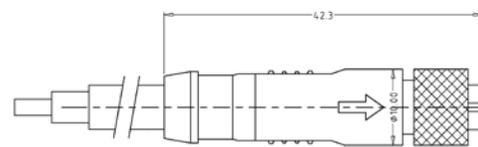
ARTICLE NUMBER BUILD-UP:



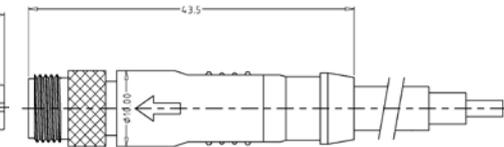
MALE END 2-6 POLE VERSION



FEMALE END 2-6 POLE VERSION



FEMALE END 8- POLE VERSION



MALE END 8- POLE VERSION



CHARACTERISTICS

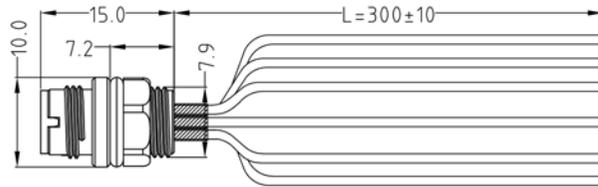
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	9,0mm
Fitting Length:	68,6mm (2-6p) / 80,0mm (8p)
Wire Specification:	0,14mm ² / 0,2mm ²



HIGO



SIGNAL CONNECTORS MINI C PANEL MOUNT



MALE PANEL MOUNT



ARTICLE NUMBER BUILD-UP:

Number of poles:
2 up to 6

Cable length in mm

L * 09 C G C 03 00 * * * *

G: Male

- PVC wires 2x0,2mm²
- PVC wires 3x0,34mm²
- PVC wires 4x0,2mm²
- PVC wires 5x0,34mm²
- PVC wires 6x0,2mm²

CHARACTERISTICS

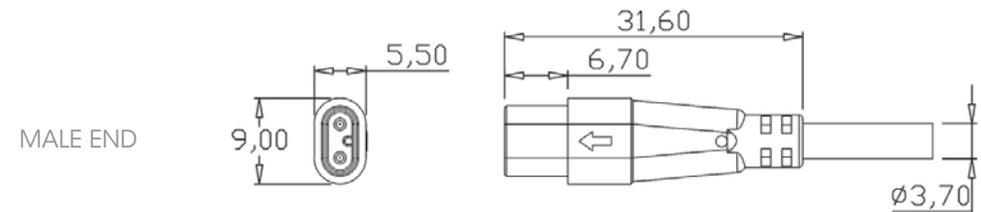
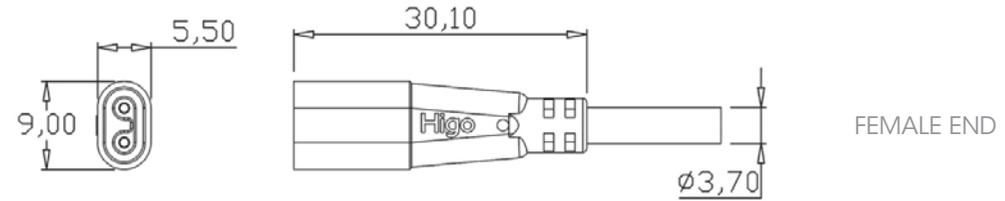
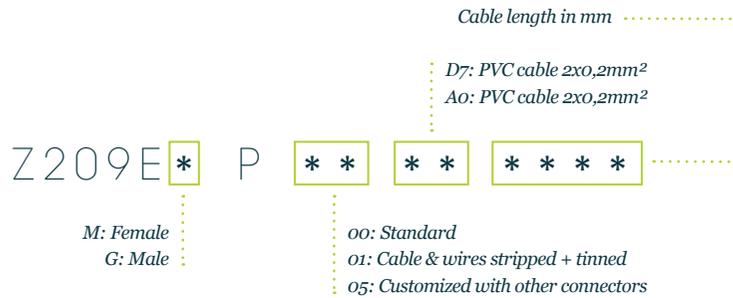
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	10mm
Wire Specification:	0,20mm ² / 0,34mm ²

CONNECTOR

SIGNAL CONNECTORS MINI E 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:	IP66
Mating Cycles:	200 times
Outside Diameter:	9,0mm
Fitting length:	55,0mm
Wire Specification:	0,2mm ²



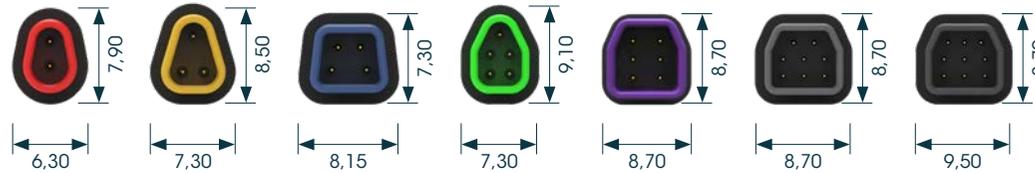
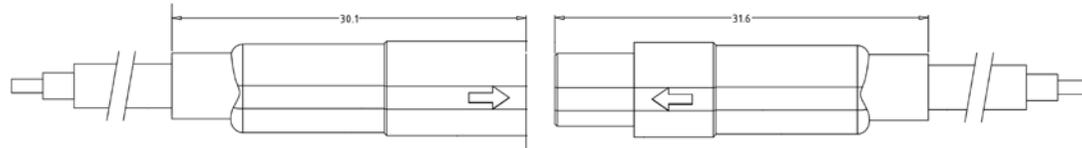
HIGO



SIGNAL CONNECTORS MINI F PLUG

FEMALE PLUG

MALE PLUG



ARTICLE NUMBER BUILD-UP:

Number of poles:
2 up to 9

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

Cable length in mm

Z * 0 9 F * P * * * * *

M: Female
G: Male

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

A0: 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



CHARACTERISTICS

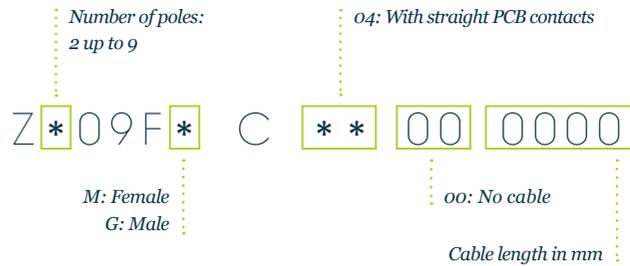
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP66/IP67
Mating Cycles:	200 times
Fitting Length:	55,0mm
Wire Specification:	0,12mm ² / 0,2mm ²

CONNECTOR

SIGNAL CONNECTORS MINI F PANEL MOUNT



ARTICLE NUMBER BUILD-UP:



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

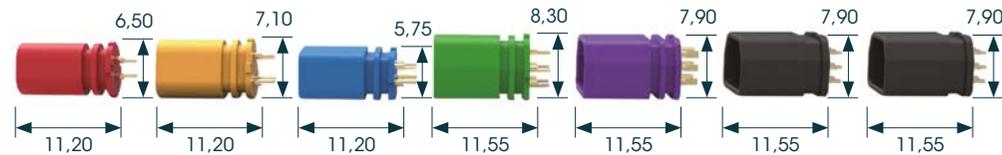


Z409FG:
COVER FOR MALE

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

CHARACTERISTICS

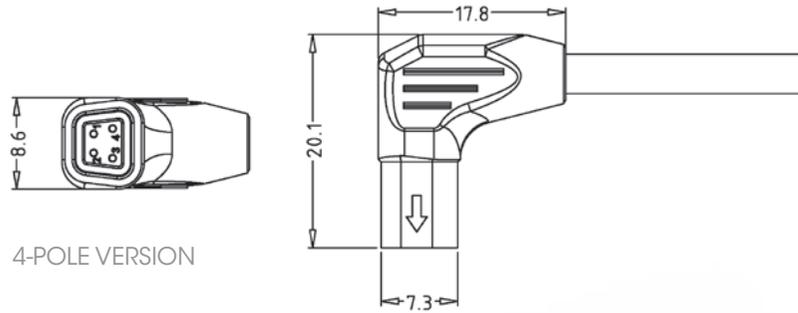
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP66/IP67
Mating Cycles:	200 times



HIGO

NEW

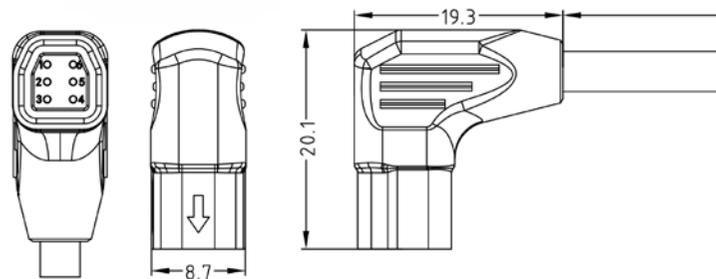
SIGNAL CONNECTORS MINI F ANGLED PLUG



4-POLE VERSION



6-POLE VERSION



ARTICLE NUMBER BUILD-UP:

Number of poles:
2 up to 9

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

Cable length in mm

Z * 0 9 F * A * * * * *

M: Female
G: Male

A: Angled plug

A2: PVC cable 4 x 0,14mm²
AY: TPU cable 4 x 0,14mm²
A4: PVC cable, 6 x 0,14mm²

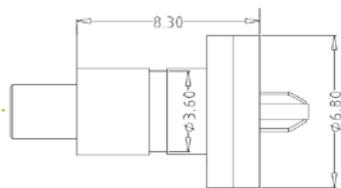
EXTENSION CABLES:
X: Male-Female
Y: Female-Female
Z: Male-Male

CHARACTERISTICS

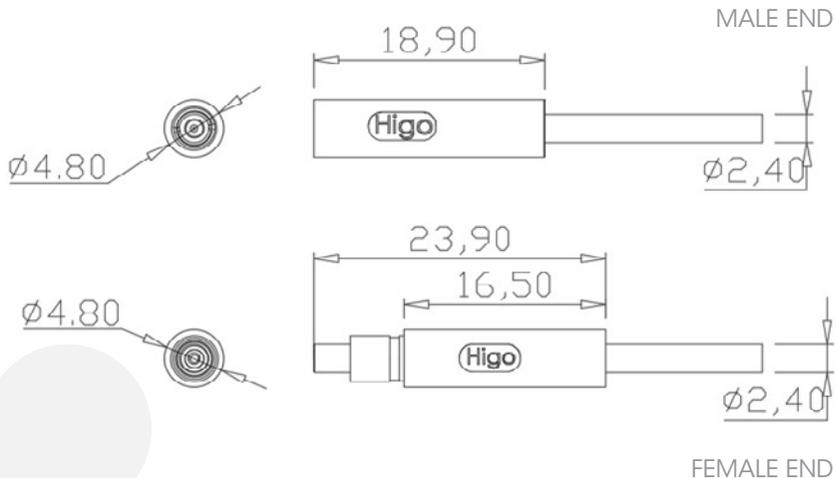
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP66
Mating Cycles:	200 times
Outside Diameter:	8,6mm x 7,3mm
Wire Specification:	0,14mm ² - 0,2mm ²

CONNECTOR

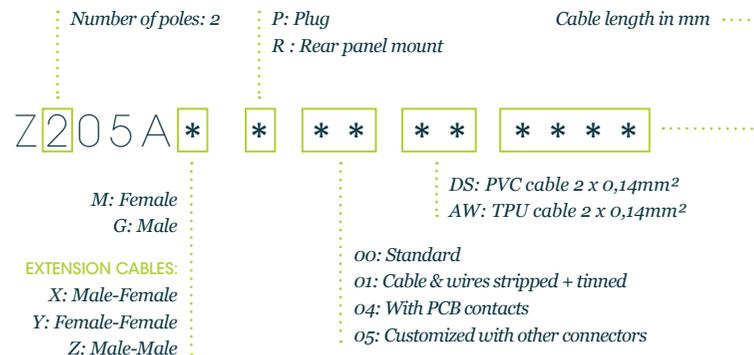
A&C SIGNAL CONNECTORS MICRO A PLUG & PANEL MOUNT



FEMALE PANEL MOUNT



ARTICLE NUMBER BUILD-UP:



CHARACTERISTICS

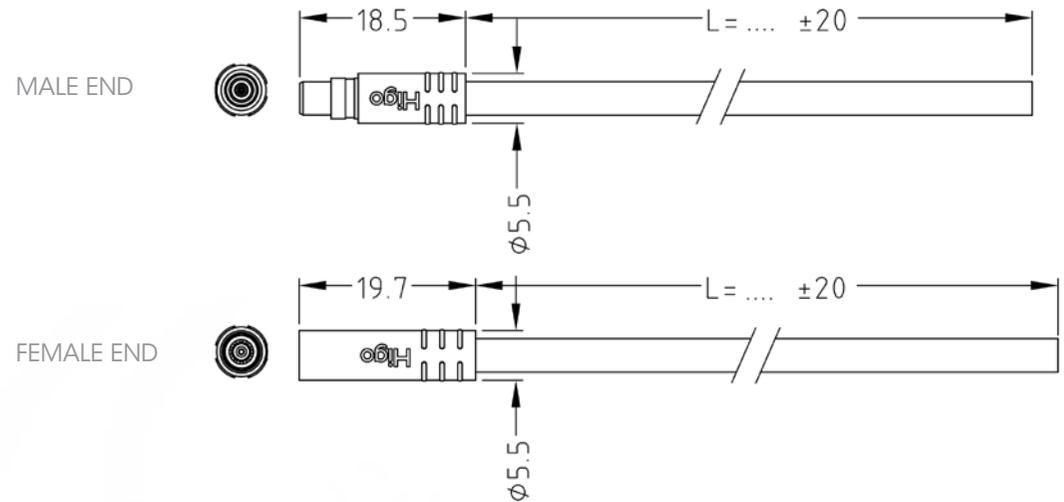
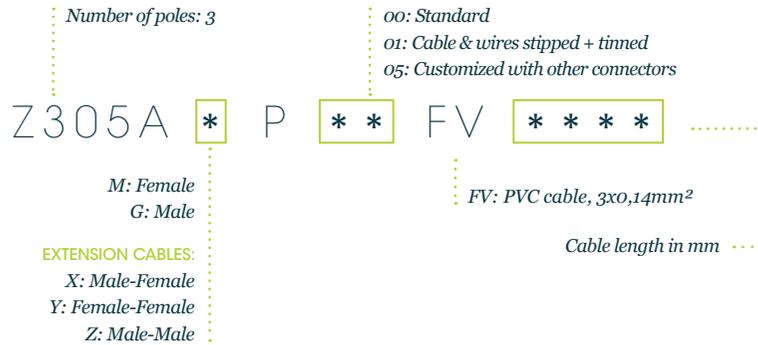
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC/DC
Rated Current:	2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	4,8mm
Fitting Length:	35,4mm
Wire Specification:	0,14mm ²

CONNECTOR

SIGNAL CONNECTORS MICRO A PLUG



ARTICLE NUMBER BUILD-UP:



CHARACTERISTICS

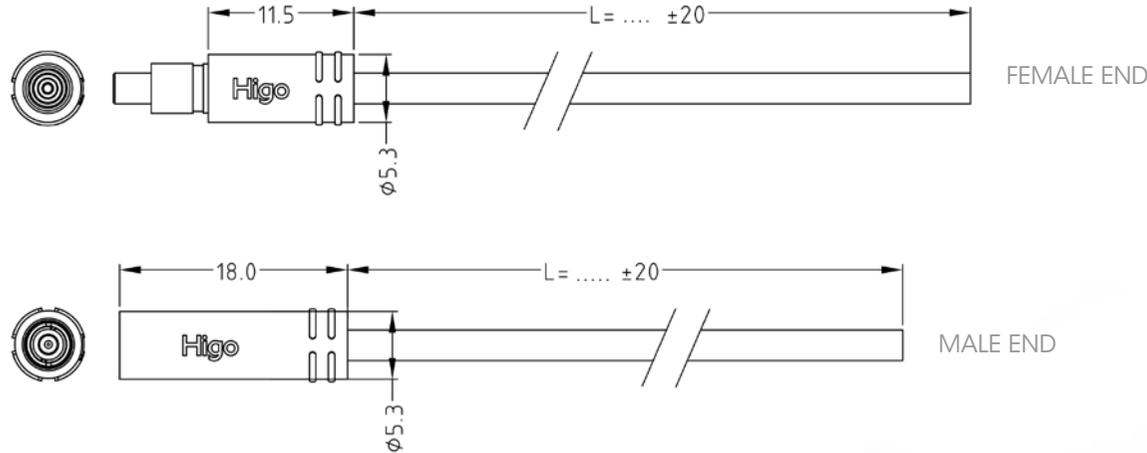
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP66
Mating Cycles:	200 times
Outside Diameter:	5,5mm
Fitting Length:	31,7mm
Wire Specification:	0,14mm ²



HIGO

NEW

SIGNAL CONNECTORS MICRO B PLUG



ARTICLE NUMBER BUILD-UP:

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

Cable length in mm

Z205B * P * * * * *

Number of poles : 2

M: Female
 G: Male

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

DS: PVC cable 2x0,14mm²
 AW: TPU cable 2x0,14mm²
 S4: TPU cable 2x0,34mm²



CHARACTERISTICS

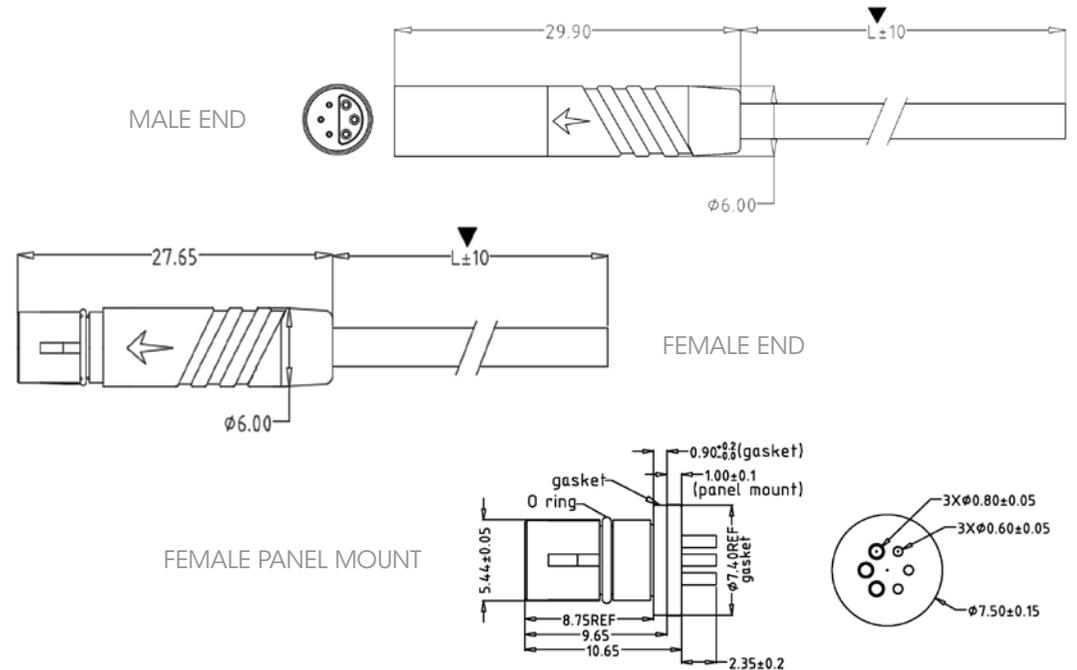
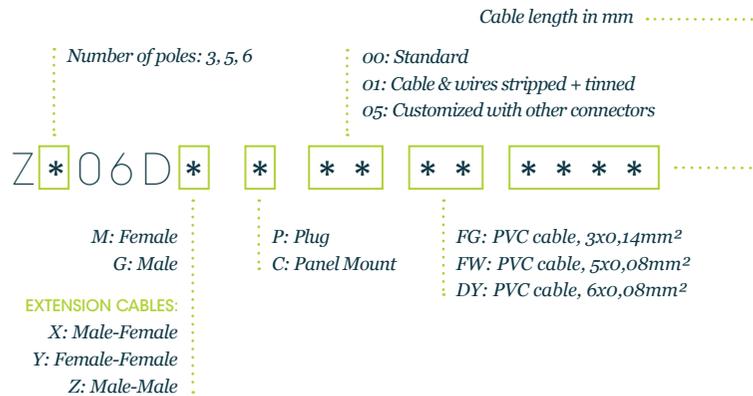
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	5,3mm
Fitting Length:	29,5mm
Wire Specification:	0,14mm ² / 0,34mm ²

CONNECTOR

SIGNAL CONNECTORS MICRO D PLUG & PANEL MOUNT



ARTICLE NUMBER BUILD-UP:



CHARACTERISTICS

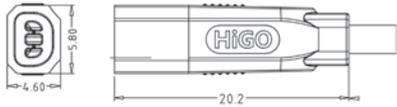
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	50 times
Outside Diameter:	6,0mm
Fitting Length:	50,0mm
Wire Specification:	3 x 0,14mm ² / 5 x 0,08mm ² / 6 x 0,08mm ²



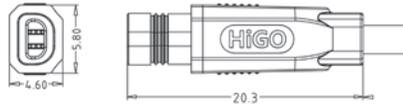
HIGO



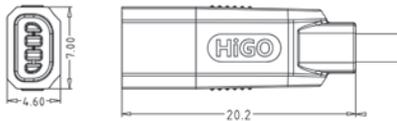
SIGNAL CONNECTORS MICRO T PLUG



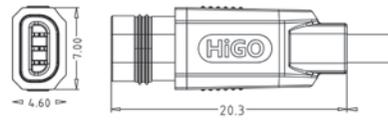
2-POLE MALE END



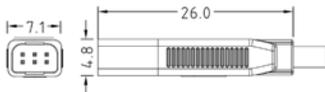
2-POLE FEMALE END



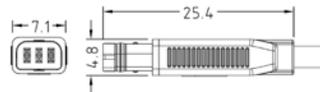
3-POLE MALE END



3-POLE FEMALE END



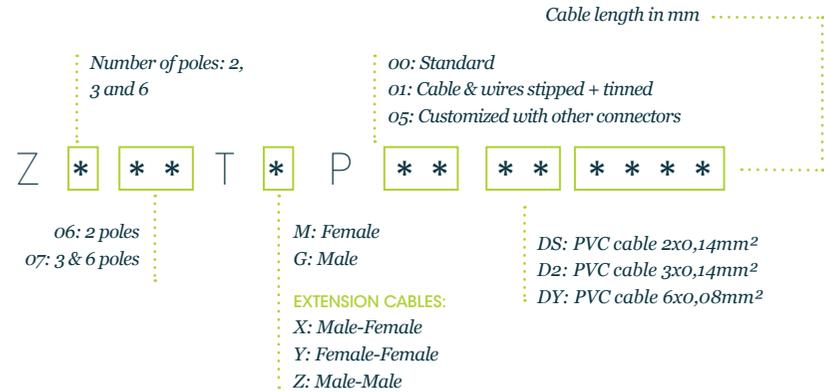
6-POLE MALE END



6-POLE FEMALE END



ARTICLE NUMBER BUILD-UP:



CHARACTERISTICS

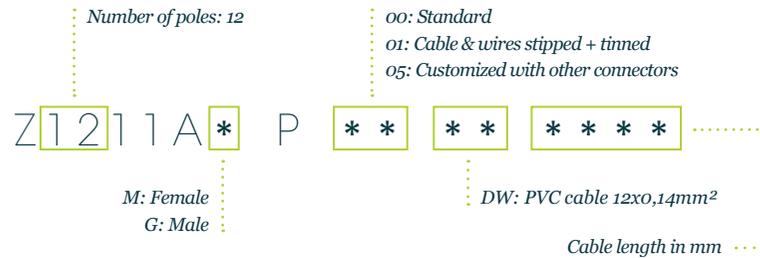
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	2 poles: 5,8mm, 3&6 poles: 7mm
Fitting Length:	2&3 poles: 35mm, 6 poles: 45mm
Wire Specification:	0,08mm ² / 0,14mm ²

CONNECTOR

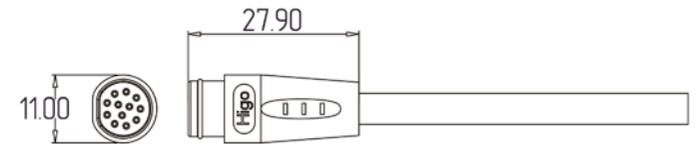
SIGNAL CONNECTORS MAIN PLUG



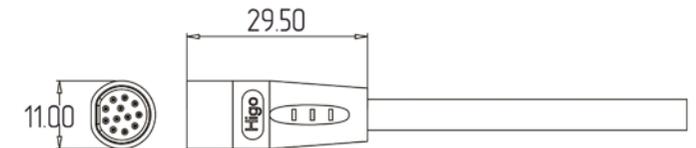
ARTICLE NUMBER BUILD-UP:



FEMALE END



MALE END



CHARACTERISTICS

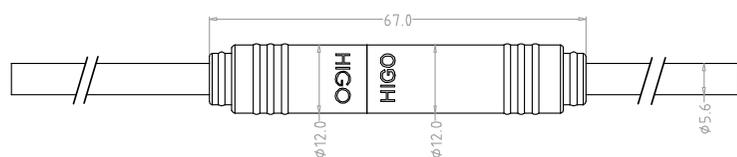
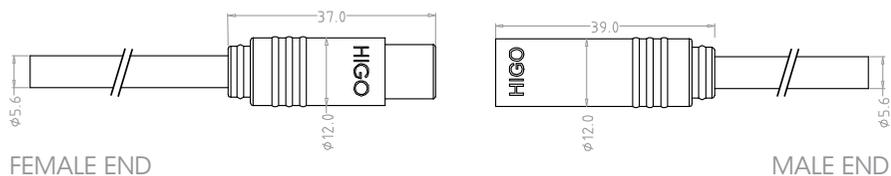
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	11,0mm
Fitting Length:	53,0mm
Wire Specification:	0,14mm ²



HIGO



SIGNAL CONNECTORS MAIN PLUG



ARTICLE NUMBER BUILD-UP:

Number of poles:
8 up to 10

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

Cable length in mm

Z * 1 2 A * P * * * * * * * *

M: Female
G: Male

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

A5: PVC cable 8x0,2mm²
A6: PVC cable 9x0,2mm²
A7: PVC cable 10x0,2mm²

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



'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 flexible connections, 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.'

Ignacio Higes Higes, Business Development Manager Spain & Portugal





PUSH-ON 2P-5P

26 - 29



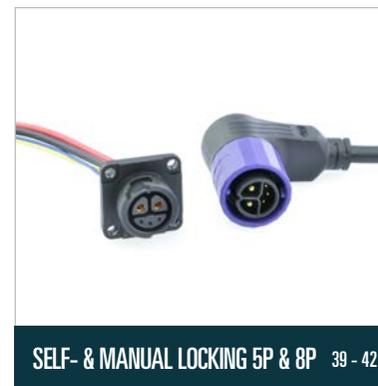
PUSH-ON 6P-12P

30 - 36



PUSH-ON FLEXIBLE 6P

37 - 38



SELF- & MANUAL LOCKING 5P & 8P

39 - 42



SELF-LOCKING 8P, BUTTON RELEASE

43



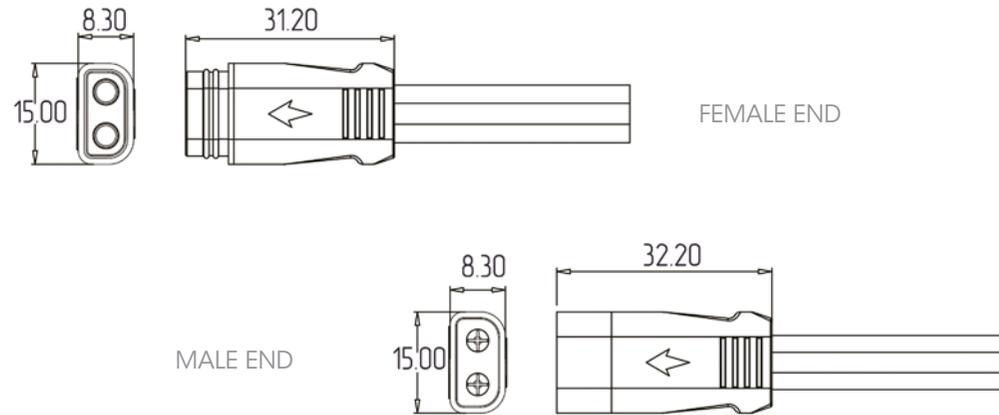
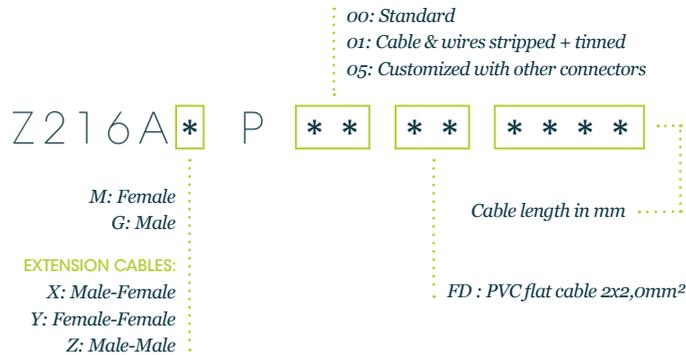
SCREW LOCKING 5P & 6P

44 - 45

BATTERY CONNECTORS **PUSH-ON**



ARTICLE NUMBER BUILD-UP:



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

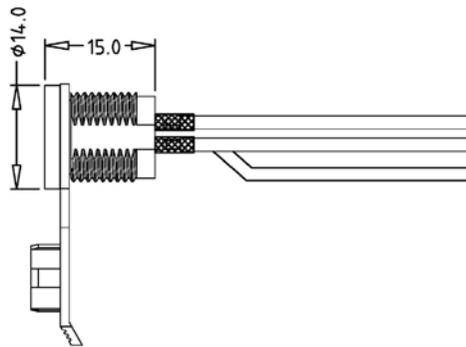
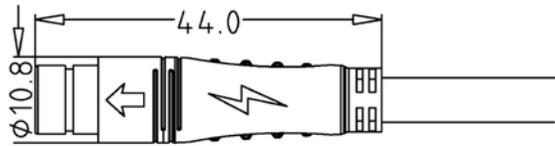


HIGO



BATTERY CONNECTORS **PUSH-ON**

MALE PLUG



FEMALE PANEL MOUNT

ARTICLE NUMBER BUILD-UP:

Z311A* * * * *

M: Female

G: Male

P: Plug

C: Panel Mount

Cable length in mm

Extension cables:

Z: Male-Male (plug)

FJ: PVC Cable, OD5,60mm, 3x0,5mm²

FK: PVC Single wire, UL1007, 3x0,5mm²

00: Standard
03: with solder cup contacts with wires
05: Customized with other connectors

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:	3000 times
Outside Diameter:	10,8mm (P) / 14,0mm (C)
Wire Specification:	0,5mm ²

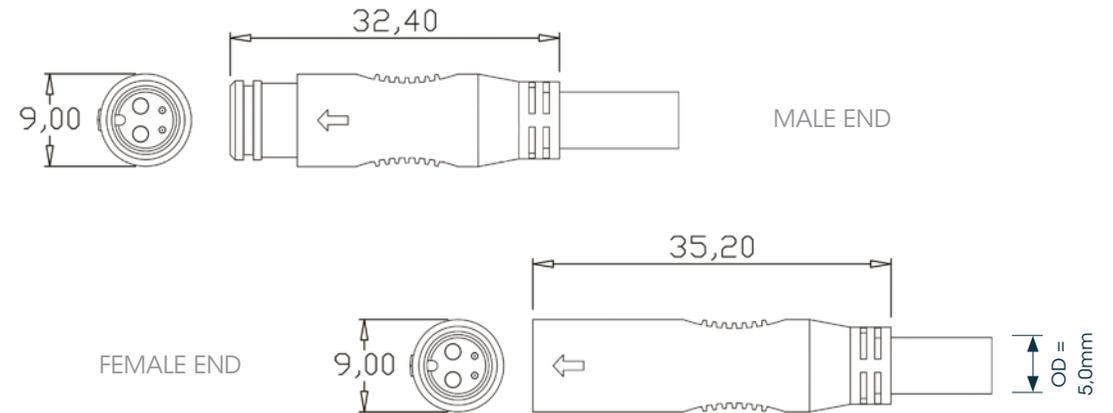
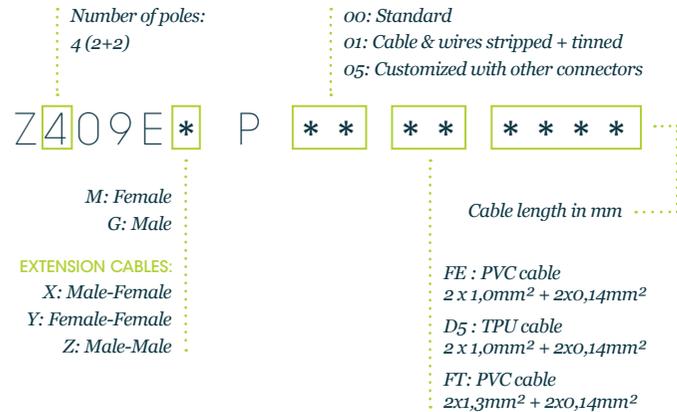


CONNECTOR

BATTERY CONNECTORS **PUSH-ON**



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:	9,0mm
Fitting Length:	61,0mm
Wire Specification:	2 x 1,0mm ² + 2 x 0,14mm ²



HIGO

BATTERY CONNECTORS PUSH-ON, 36V



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

Number of poles:
6 (2+4)

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

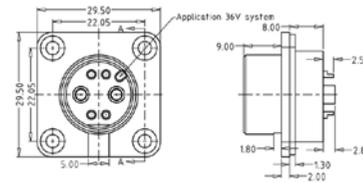
M: Female
G: Male

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

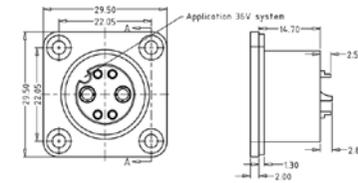
P: Plug
C: Panel Mount

Cable length in mm

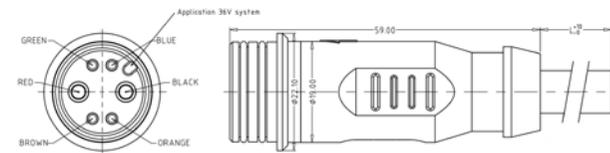
DR: PVC single wires 2x4,0mm² + 4x0,2mm²
D1: PVC single wires 2xAWG14 + 4xAWG22
B6: PVC single wires 2xAWG16 + 4xAWG22
D9: PVC single wires 2xAWG18 + 4xAWG22
FH: TPU cable 2x2,0mm² + 4x0,34mm²



MALE PANEL MOUNT



FEMALE PANEL MOUNT



MALE PLUG

CHARACTERISTICS

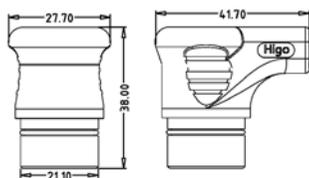
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	40A / 5A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	3000 times
Outside Diameter:	19,0mm (P) / 29,5mm (C)



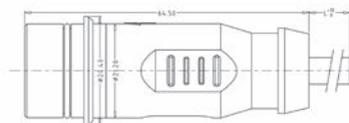
HIGO



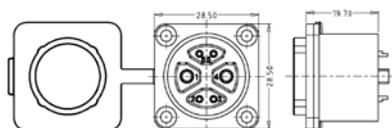
BATTERY CONNECTORS **PUSH-ON, 48 V**



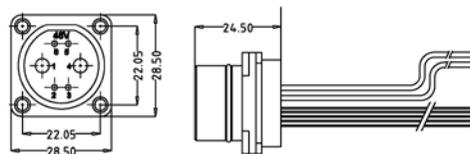
MALE ANGLED PLUG



MALE PLUG



FEMALE PANEL MOUNT



MALE PANEL MOUNT



ARTICLE NUMBER BUILD-UP: (Coding only for 48v applications)

Number of poles:
6 (2+4)

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

Z624B* * ** ** ** **

M: Female
G: Male

P: Plug
C: Panel Mount
A: Angled Plug

Cable length in mm

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

- 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 2x4,0mm² + 4x0,2mm²

CHARACTERISTICS

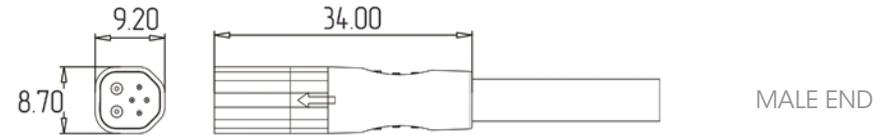
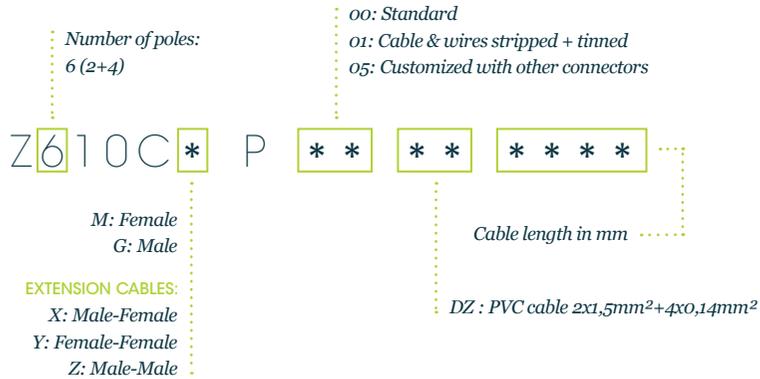
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	40A / 5A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	3000 times
Outside Diameter:	21,2mm (P) / 28,5mm (C)

CONNECTOR

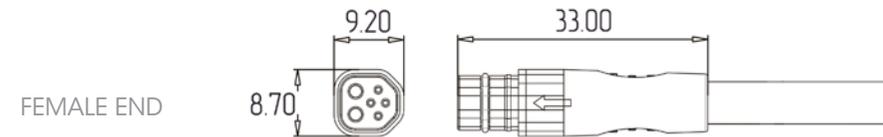
BATTERY CONNECTORS **PUSH-ON**



ARTICLE NUMBER BUILD-UP:



MALE END



FEMALE END

CHARACTERISTICS

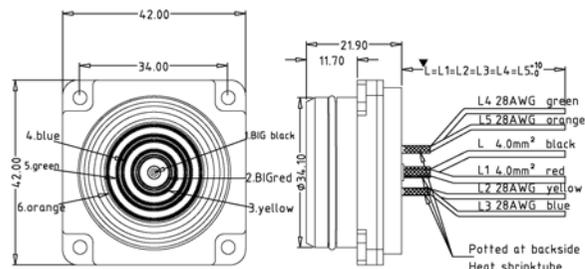
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	15A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	8,70mm x 9,20mm
Fitting length:	59,0mm
Wire Specification:	2 x 1,5mm ² + 4 x 0,14mm ²



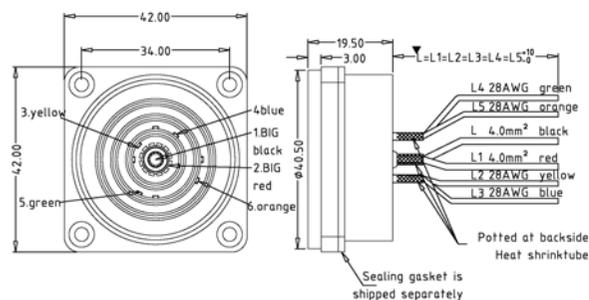
HIGO



BATTERY CONNECTORS **PUSH-ON**



MALE END



FEMALE END

PATENTED



ARTICLE NUMBER BUILD-UP:

Number of poles:
6 (2+4)

03: With solder cup contacts with wires
05: Customized with other connectors

Z642B* C * * * * *

M: Female
G: Male

Cable length in mm

EXTENSION CABLES:

X: Male-Female

Y: Female-Female

Z: Male-Male

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:	3000 times
Outside diameter:	47,0mm x 42,0mm
Fitting length:	30,0mm
Wire Specification:	2 x 4,0mm ² / 4 x 0,08 ~ 1,0mm ²

CONNECTOR

BATTERY CONNECTORS **PUSH-ON**



ARTICLE NUMBER BUILD-UP:

Number of poles:
7 (2+5)

Z 7 1 8 A *

M: Female
G: Male

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

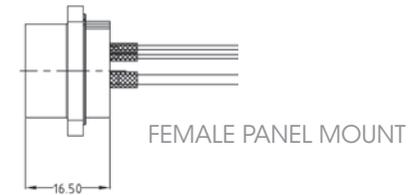
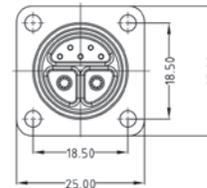
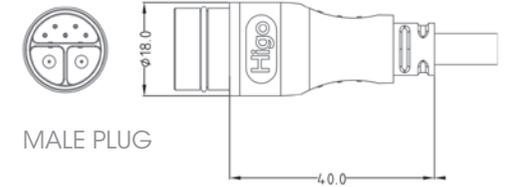
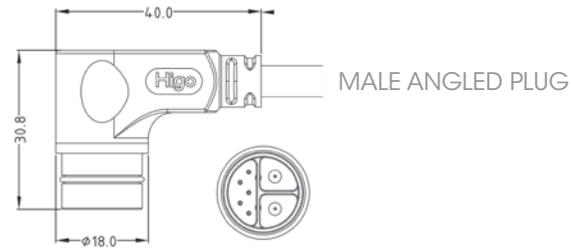
oo: Standard
o1: Cable & wires stripped + tinned
o3: With solder cup contacts with wires
o5: Customized with other connectors

* * * * *

P: Plug
C: Panel Mount
A: Angled Plug

Cable length in mm

GG: PVC cable
2x2,5mm²+5x0,20mm²
GH: PVC single wires
2x2,5mm²+5x0,20mm²



CHARACTERISTICS

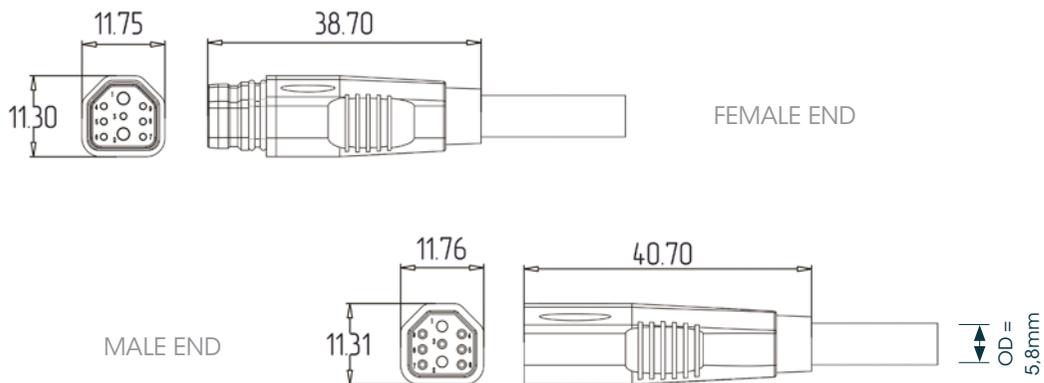
- Temperature Range: -25°C up to +80°C
- Rated Voltage: 48V AC / 60V DC
- Rated Current: 25A / 2A
- Contact Resistance: ≤10mΩ
- Insulation Resistance: ≥20MΩ
- Protection Level: IP67
- Mating Cycles: 3000 times
- Outside Diameter: 17mm
- Fitting Length: 30 to 50mm
- Wire Specification: 2 x 2,5mm² + 5 x 0,20mm²



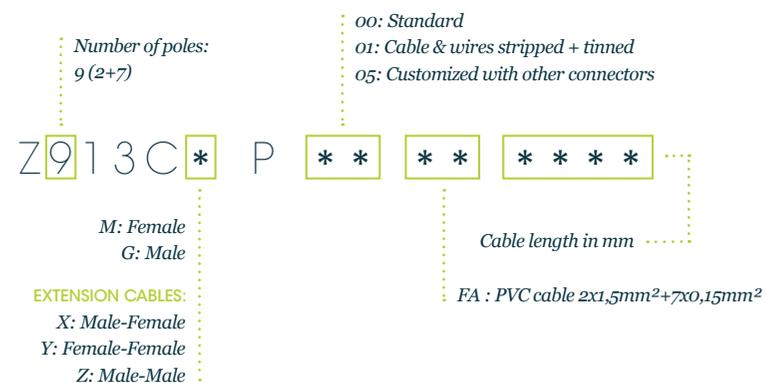
HIGO



BATTERY CONNECTORS **PUSH-ON**



ARTICLE NUMBER BUILD-UP:



CHARACTERISTICS

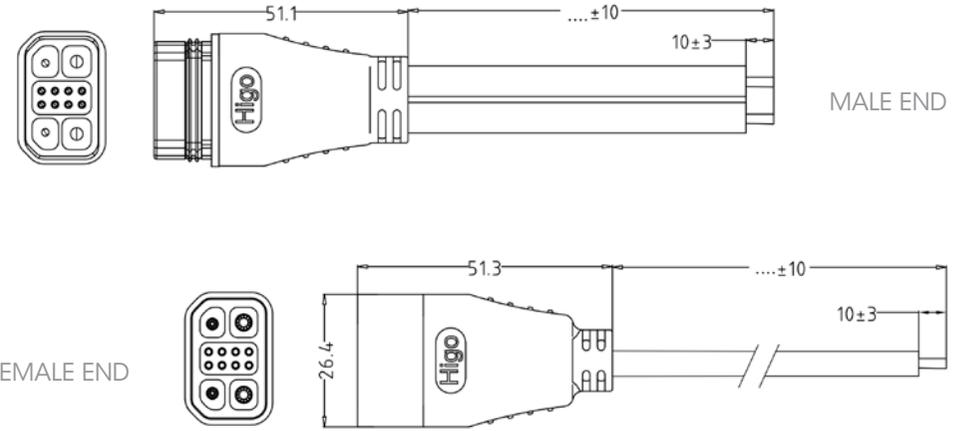
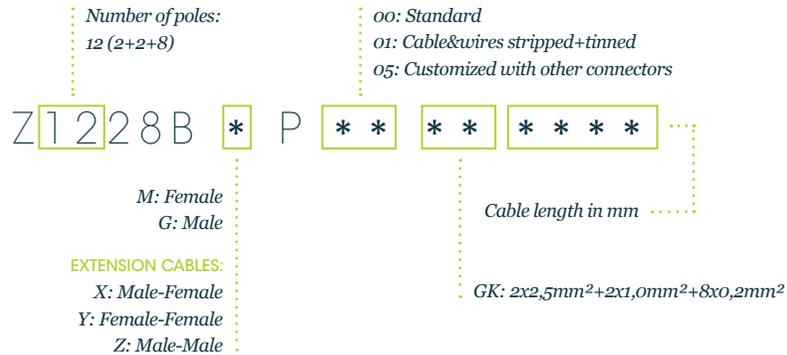
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	15A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside diameter:	11,31mm x 11,76mm
Fitting length:	71,0mm
Wire Specification:	2 x 1,5mm ² + 7 x 0,15mm ²

CONNECTOR

BATTERY CONNECTORS CHARGING & DISCHARGING IN 1, PUSH-ON

NEW

ARTICLE NUMBER BUILD-UP:



CHARACTERISTICS

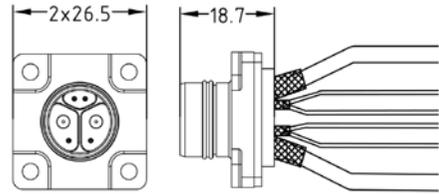
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	25A / 10A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	3000 times
Outside Diameter:	28,0mm
Fitting Length:	90,8mm
Wire Specification:	2 x 2,5mm ² + 2 x 1,0mm ² + 8 x 0,2mm ²



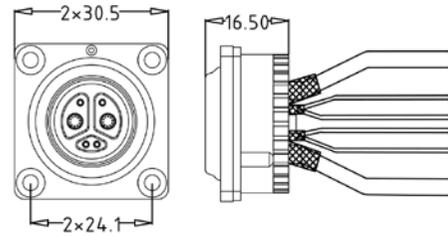
HIGO

NEW

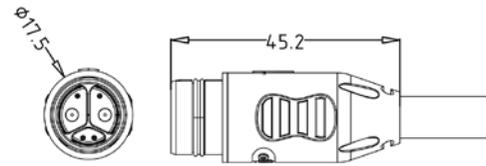
BATTERY CONNECTORS PUSH-ON FLEXIBLE



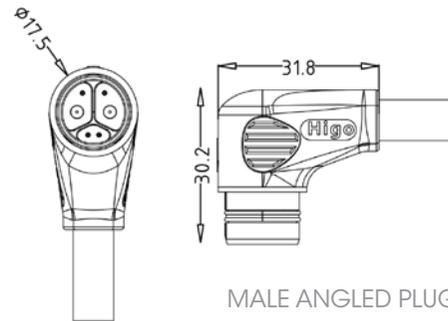
MALE PANEL MOUNT



FEMALE PANEL MOUNT



MALE PLUG



MALE ANGLED PLUG



ARTICLE NUMBER BUILD-UP:

Number of poles:
6 (2+4)

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

F618A * * * * * *

M: Female
G: Male

P: Plug
C: Panel Mount
A: Angled Plug

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

Cable length in mm

GN: PVC cable 2x3,3mm²+4x0,20mm²
GA: PVC single wires 2x3,3mm²+4x0,20mm²

CHARACTERISTICS

Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	30A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	3000 times
Outside diameter:	18mm
Fitting length:	20 to 40mm
Wire Specification:	2 x 3,3mm ² + 4 x 0,20mm ²

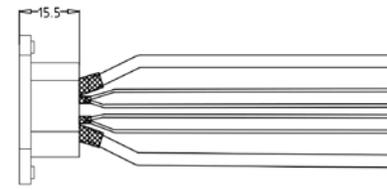
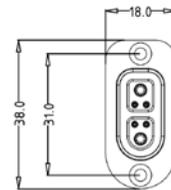
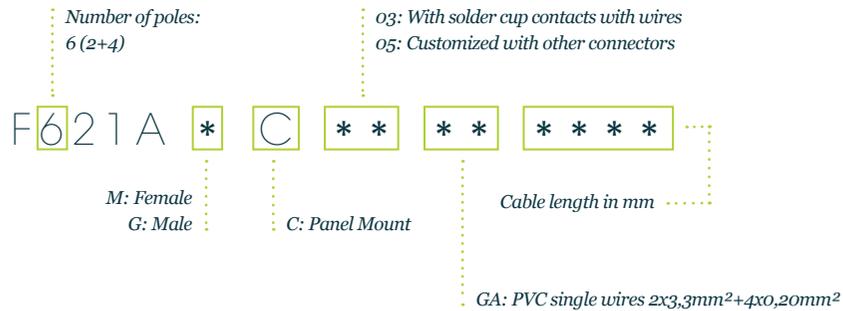
CONNECTOR

BATTERY CONNECTORS

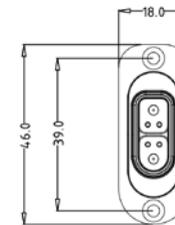
PUSH-ON FLEXIBLE

NEW

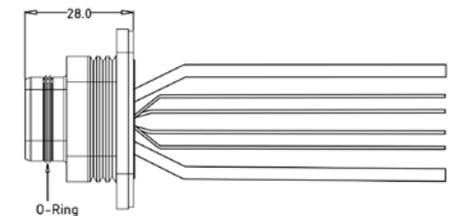
ARTICLE NUMBER BUILD-UP:



FEMALE PANEL MOUNT



MALE PANEL MOUNT



CHARACTERISTICS

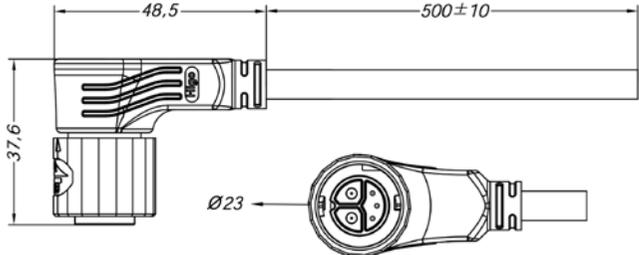
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	30A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	3000 times
Wire Specification:	2 x 3,3mm ² + 4 x 0,20mm ²



HIGO

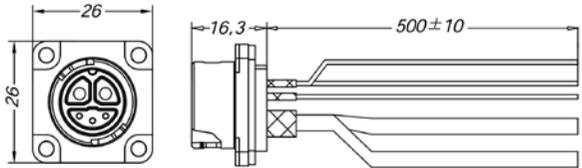
NEW

BATTERY CONNECTORS SELF-LOCKING



MALE ANGLED PLUG

FEMALE PANEL MOUNT



ARTICLE NUMBER BUILD-UP:

Number of poles:
5 (2+3)

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

S526A * * * * *

M: Female
G: Male

A: Angled Plug
C: Panel Mount

Cable length in mm

B0: PVC cable 2x2,0mm²+3x0,20mm²
B9: PVC single wires 2x2,0mm²+3x0,20mm²

CHARACTERISTICS

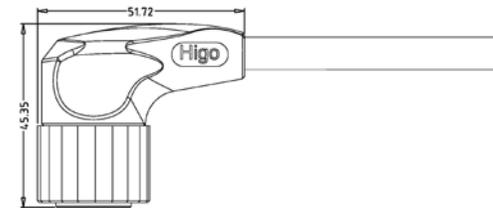
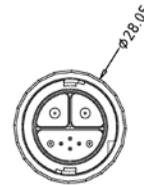
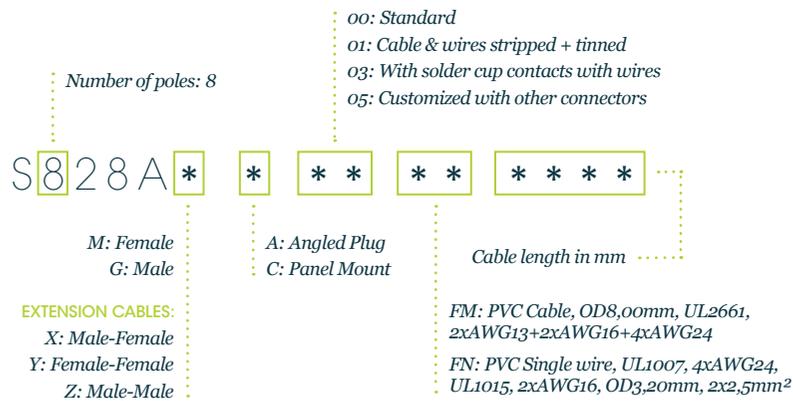
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	25A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	3000 times
Outside diameter:	26mm
Fitting length:	40mm
Wire Specification:	2 x 2,0mm ² + 3 x 0,20mm ²

CONNECTOR

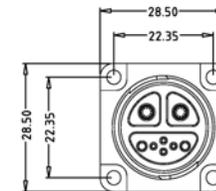
BATTERY CONNECTORS CHARGING & DISCHARGING IN 1, SELF-LOCKING



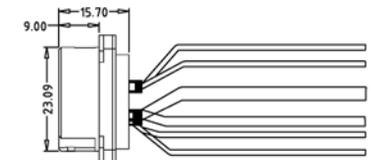
ARTICLE NUMBER BUILD-UP:



MALE ANGLED PLUG



FEMALE PANEL MOUNT



CHARACTERISTICS

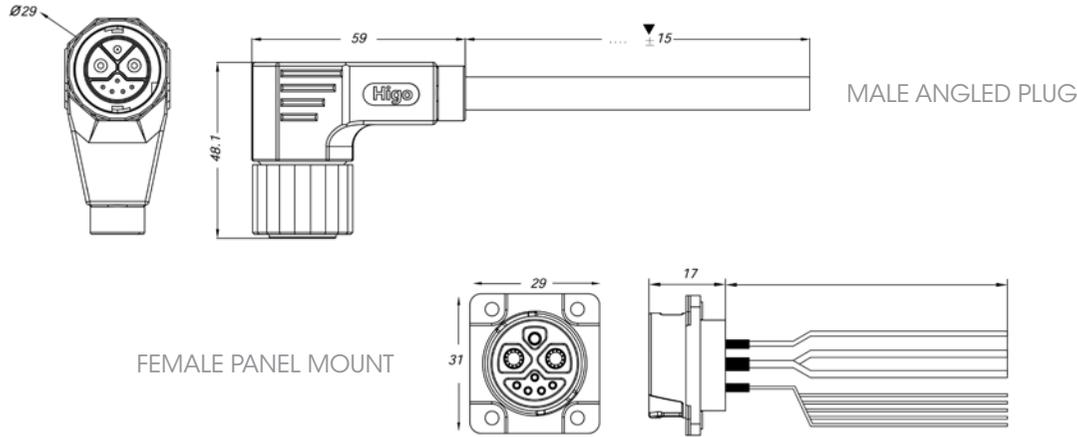
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	25A / 10A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	3000 times
Outside diameter:	28,05mm (P) / 23,09mm (C)
Wire Specifications:	2,5mm ² / 1,5mm ² / 0,8mm ²



HIGO



BATTERY CONNECTORS CHARGING & DISCHARGING IN 1, SELF-LOCKING



ARTICLE NUMBER BUILD-UP:

Number of poles:
8 (2+1+5)

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

S828B * * * * * * * *

M: Female
G: Male

A: Angled Plug
C: Panel Mount

Cable length in mm

CD: PVC cable
2x10AWG+1x18AWG+5x22AWG
GM: PVC single wires
2x4,0mm²+1x0,82mm²+5x0,20mm²



CHARACTERISTICS

Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	50A / 15A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	3000 times
Outside diameter:	28mm
Fitting length:	50mm
Wire Specification:	2 x 4,0mm ² + 1 x 0,82mm ² + 5 x 0,20mm ²

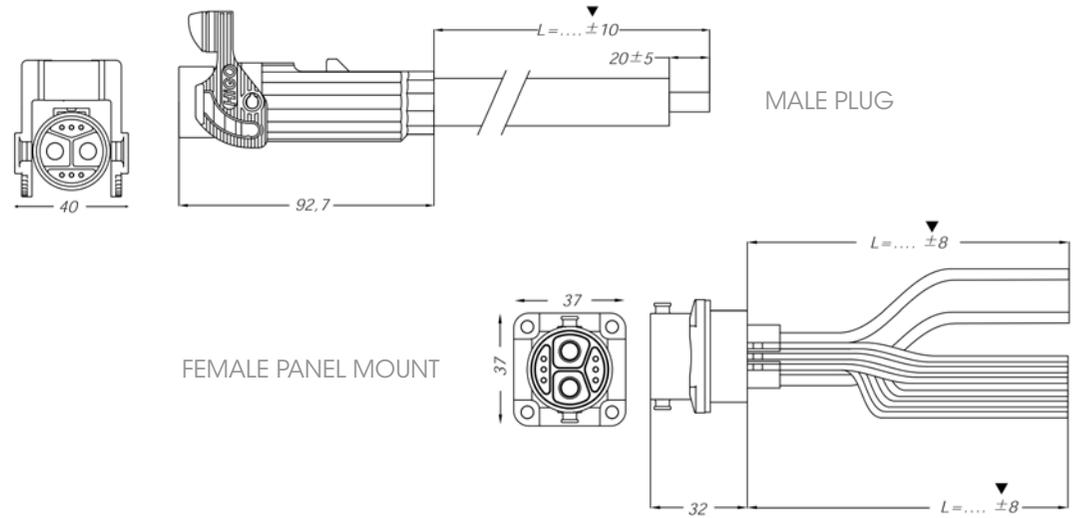
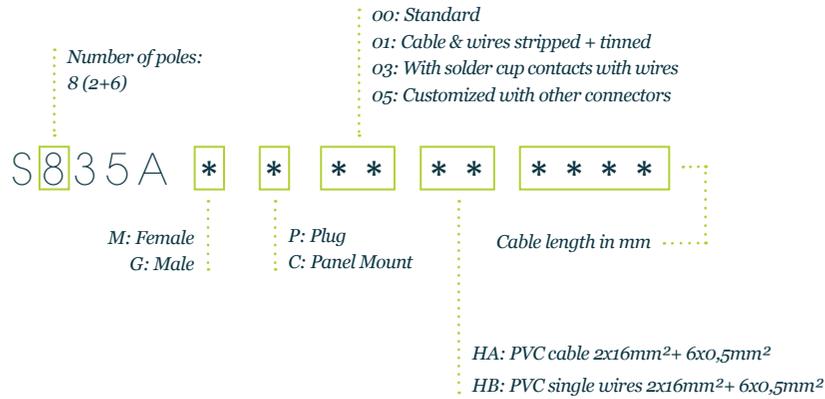
CONNECTOR

BATTERY CONNECTORS

MANUAL LOCKING



ARTICLE NUMBER BUILD-UP:



CHARACTERISTICS

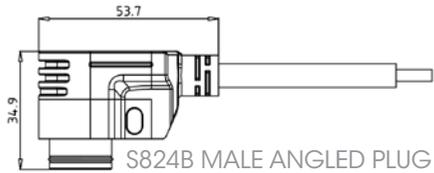
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	100A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	3000 times
Outside diameter:	28mm
Fitting length:	97mm
Wire Specification:	2 x 16,0mm ² + 6 x 0,5mm ²



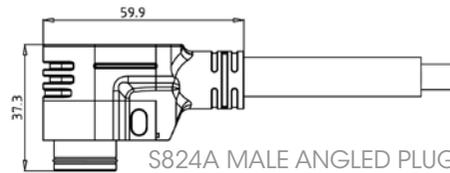
HIGO



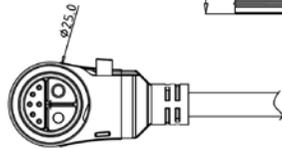
BATTERY CONNECTORS SELF-LOCKING, BUTTON RELEASE



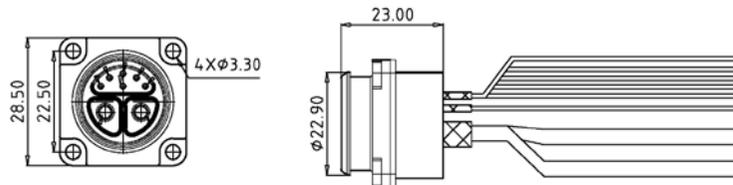
S824B MALE ANGLED PLUG



S824A MALE ANGLED PLUG



FEMALE PANEL MOUNT



ARTICLE NUMBER BUILD-UP:

Number of poles:
8 (6+2)

A: rated current = 70A / 2A
B: rated current = 40A / 2A

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

S 8 2 4 * * * * * * * *

M: Female
G: Male

P: Plug
C: Panel Mount

Cable length in mm

A type:
FP: PVC cable, 2x10,0mm² + 6x0,20mm²
FQ: PVC single wires, 2x10,0mm² + 6x0,20mm²

B type:
FR: PVC cable, 2x4,0mm² + 6x0,20mm²
FS: PVC single wires, 2x4,0mm² + 6x0,20mm²

CHARACTERISTICS

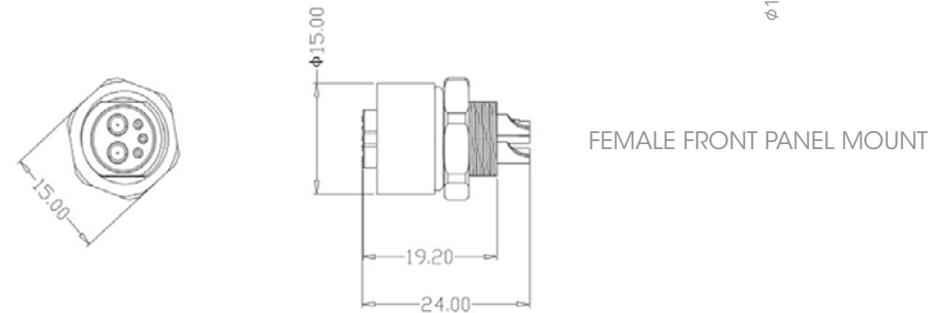
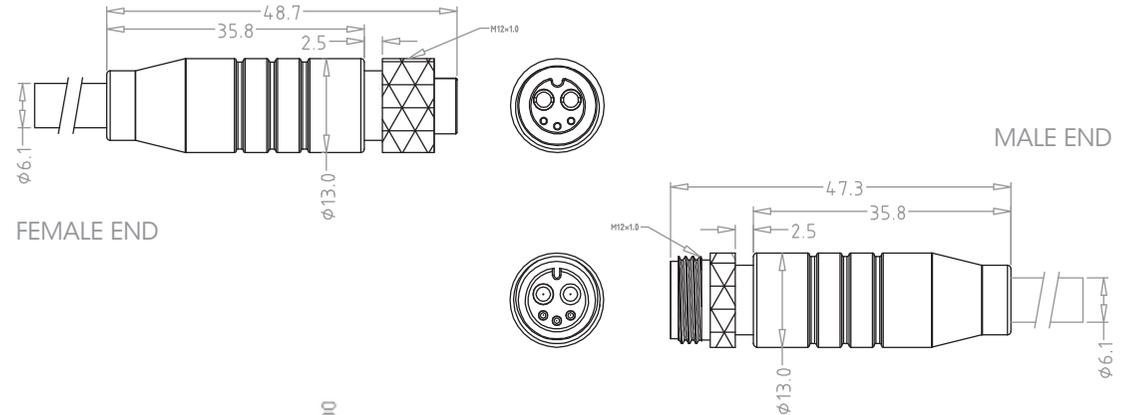
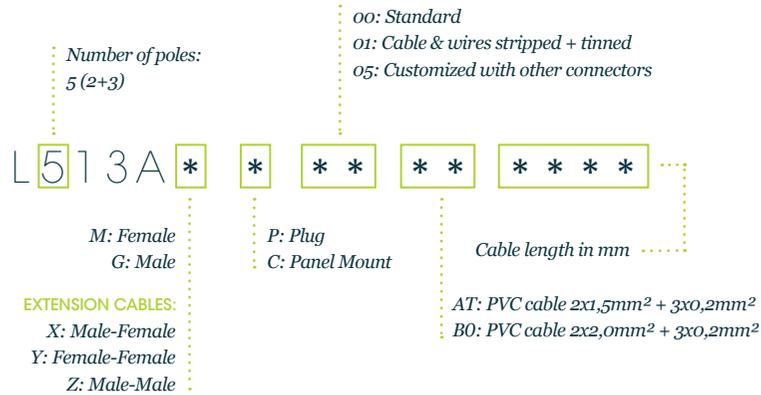
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	70A (A) or 40A (B) / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	3000 times
Outside diameter:	25,0mm ² (P) / 22,9mm ² (C) ²
Wire Specification:	6 x 0,2mm ² + 2 x 10,0mm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

CONNECTOR

BATTERY CONNECTORS SCREW-LOCKING



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

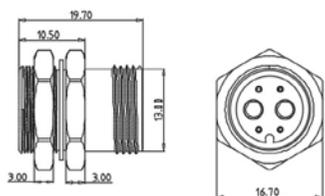
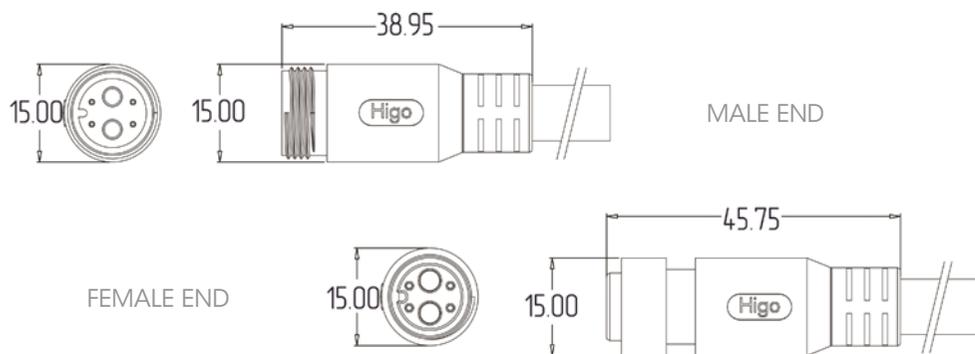


HIGO

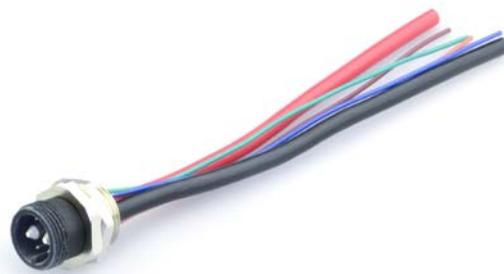


BATTERY CONNECTORS

SCREW-LOCKING 



MALE FRONT PANEL MOUNT



ARTICLE NUMBER BUILD-UP:

Number of poles: 6(2+4)

oo: Standard
o1: Cable & wires stripped + tinned
o3: with solder cup contacts with wires
o5: Customized with other connectors

L615A* * * * * *

M: Female
G: Male

P: Plug
C: Panel Mount

Cable length in mm

DC: PVC cable 2x4,0mm² + 4x0,2mm²
DR : PVC single wires 2x4,0mm²+4x0,2mm²

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:	40A / 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

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'.

Jannes Christiaensen, Business Development Manager





PUSH-ON 3P

48-49



PUSH-ON 6P & 9P

50-52



PUSH-ON 10P & 11P

53-54



SCREW LOCKING 3P

55



SCREW LOCKING 10P

56-57



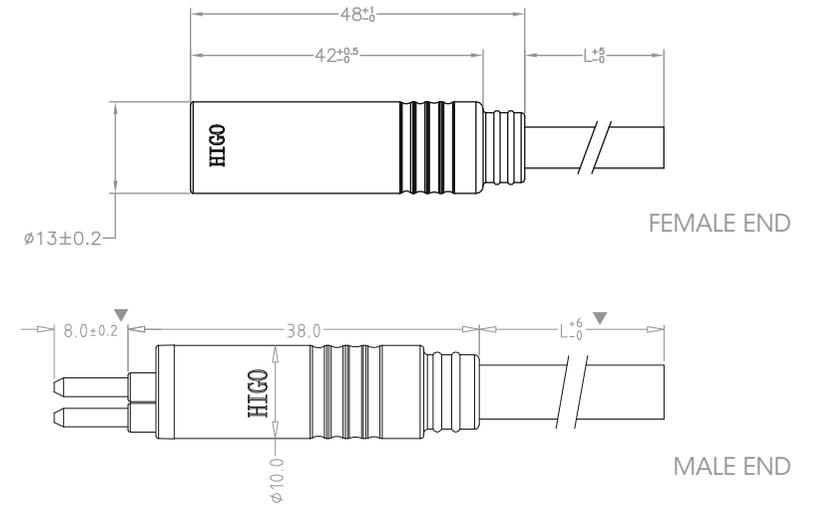
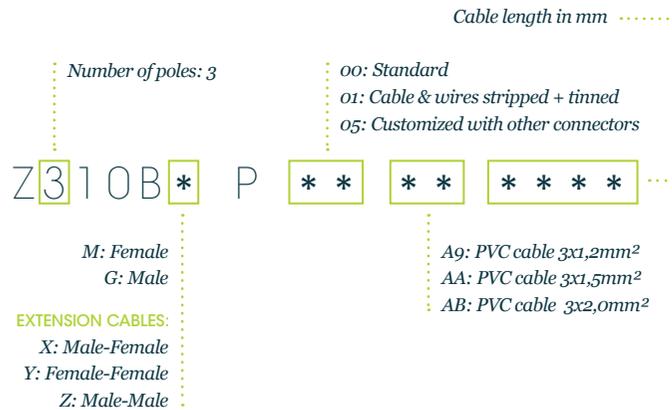
SCREW LOCKING 11P

58

MOTOR CONNECTORS **PUSH-ON**

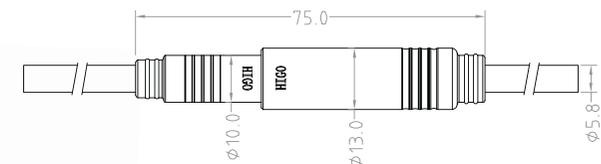


ARTICLE NUMBER BUILD-UP:



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:	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

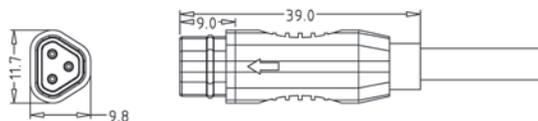


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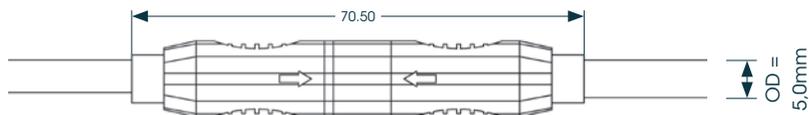
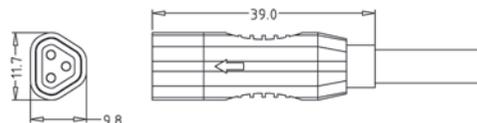


MOTOR CONNECTORS **PUSH-ON**

MALE END



FEMALE END



ARTICLE NUMBER BUILD-UP:

Number of poles: 3

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

Cable length in mm

Z310D* P ** ** * * * *

M: Female
G: Male

FC: PVC cable 3x1,2mm²

EXTENSION CABLES:

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

CHARACTERISTICS

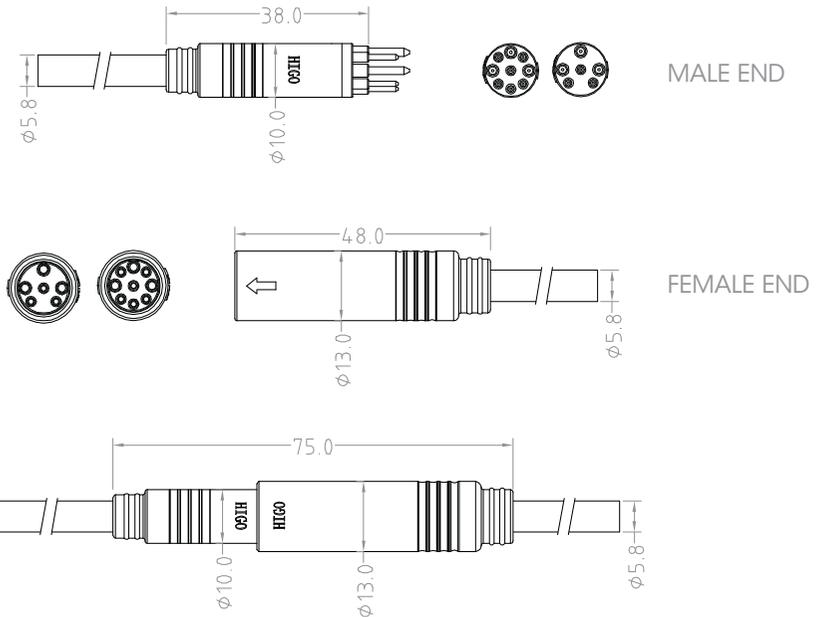
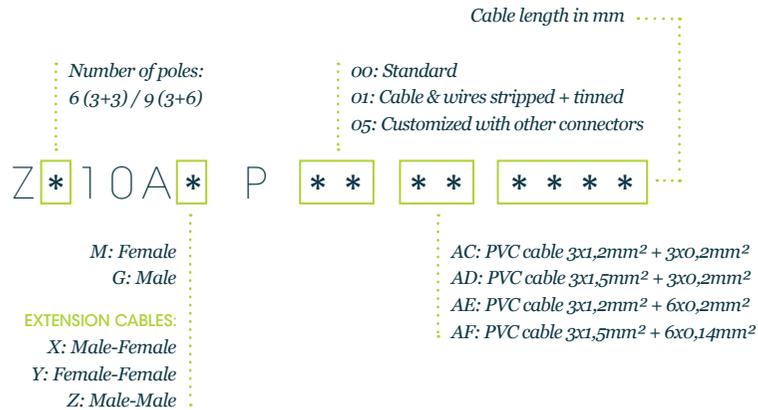
Temperature Range: -25°C up to +80°C
 Rated Voltage: 48V AC / 60V DC
 Rated Current: 15A
 Contact Resistance: ≤10mΩ
 Insulation Resistance: ≥20MΩ
 Protection Level: IP67
 Mating Cycles: 200 times
 Outside Diameter: 11,72mm x 9,8mm
 Fitting Length: 71,0mm
 Wire Specification: 1,2mm²

CONNECTOR

MOTOR CONNECTORS **PUSH-ON**



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

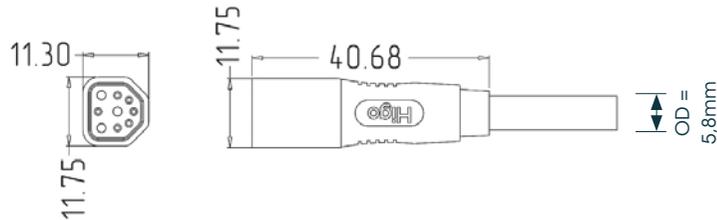


HIGO

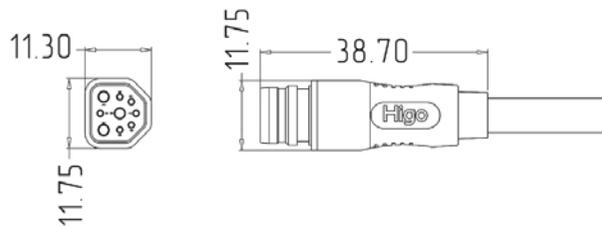


MOTOR CONNECTORS **PUSH-ON**

MALE END



FEMALE END



ARTICLE NUMBER BUILD-UP:

Number of poles:
9 (3+6)

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

Cable length in mm

Z 9 1 3 B * P * * * * * * * *

M: Female
G: Male

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

AF: PVC cable
3x1,5mm² + 6x0,14mm²

CHARACTERISTICS

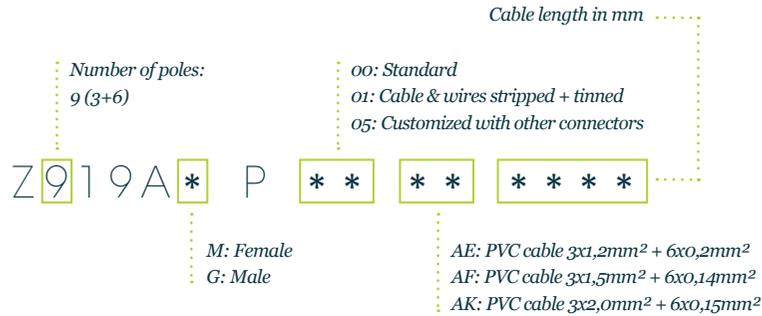
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	15A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	11,75mm x 11,30mm
Fitting Length:	70,7mm
Wire Specification:	3 x 1,5mm ² + 6 x 0,14mm ²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

CONNECTOR

MOTOR CONNECTORS **PUSH-ON**

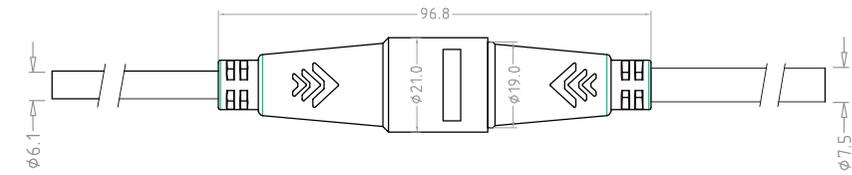
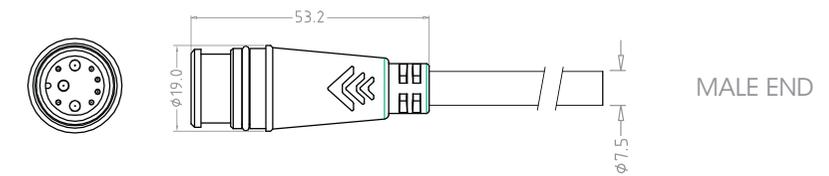
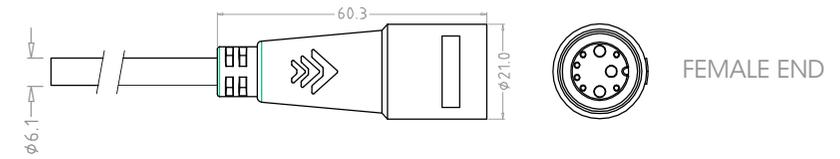


ARTICLE NUMBER BUILD-UP:



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

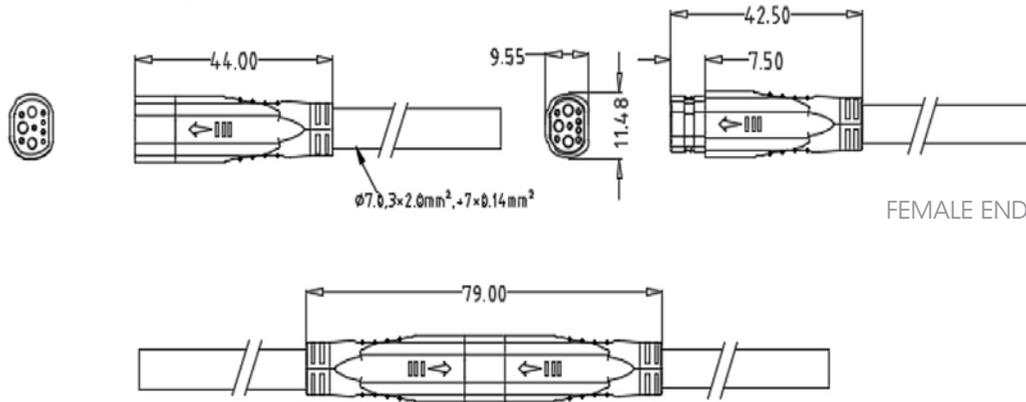


HIGO



MOTOR CONNECTORS **PUSH-ON**

MALE END



ARTICLE NUMBER BUILD-UP:

Number of poles:
3+7

Cable length in mm

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

Z 1 0 1 2 B * P * * * * *

M: Female
G: Male

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

FB : PVC cable
 $3 \times 2,0 \text{mm}^2 + 7 \times 0,14 \text{mm}^2$

CHARACTERISTICS

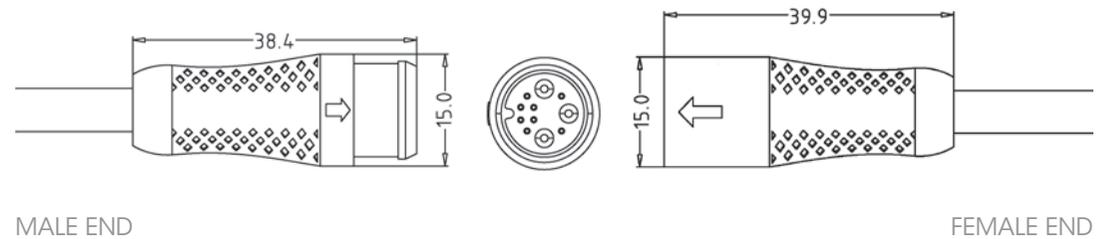
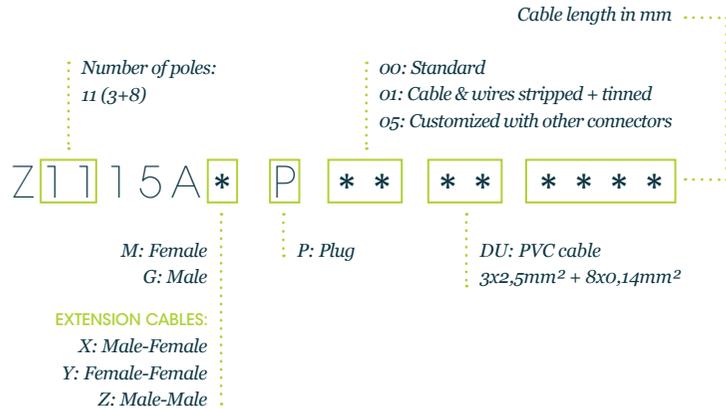
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	20A / 2A
Contact Resistance:	$\leq 10 \text{m}\Omega$
Insulation Resistance:	$\geq 20 \text{M}\Omega$
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	11,48mm x 9,55mm
Fitting Length:	79,0mm
Wire Specification:	$3 \times 2,0 \text{mm}^2 + 7 \times 0,14 \text{mm}^2$ / $3 \times 1,5 \text{mm}^2 + 7 \times 0,14 \text{mm}^2$

CONNECTOR

MOTOR CONNECTORS **PUSH-ON**



ARTICLE NUMBER BUILD-UP:



CHARACTERISTICS

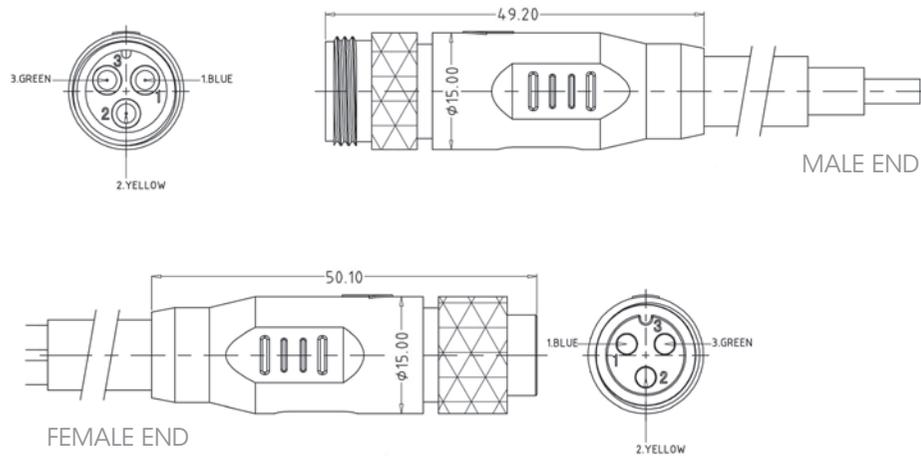
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	25A / 2A
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	15,0mm
Fitting Length:	70,0mm
Wire Specification:	3 x 2,5mm ² + 8 x 0,14mm ²



HIGO



MOTOR CONNECTORS SCREW LOCKING



ARTICLE NUMBER BUILD-UP:

Number of poles: 3

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

L315A* P * * * * *

M: Female
G: Male

B8: PVC cable 3x4,0mm²

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

Cable length in mm

CHARACTERISTICS

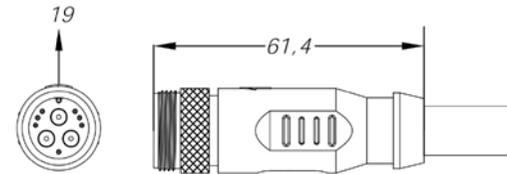
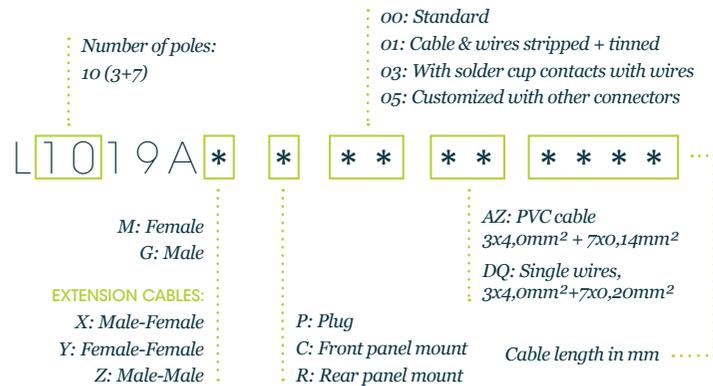
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	35A, 2 power pin loaded 28A, 3 power pin loaded
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	15,0mm
Fitting Length:	90,0mm
Wire Specification:	3 x 4,0mm ²

CONNECTOR

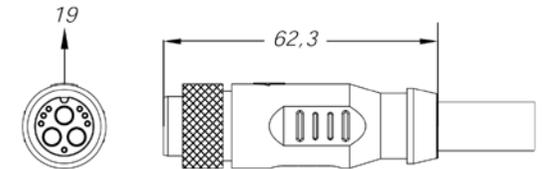
MOTOR CONNECTORS



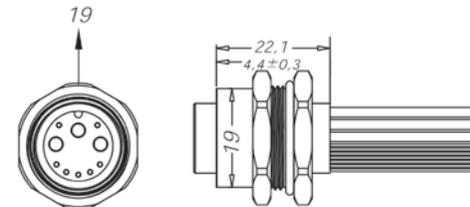
ARTICLE NUMBER BUILD-UP:



MALE PLUG



FEMALE PLUG



FEMALE REAR PANEL MOUNT

CHARACTERISTICS

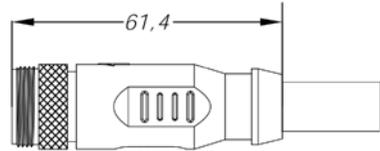
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	30A / 2A, 3 power pin loaded
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	19,0mm
Fitting Length:	114,0mm
Wire Specification:	3 x 4,0mm ² + 7 x 0,14mm ²



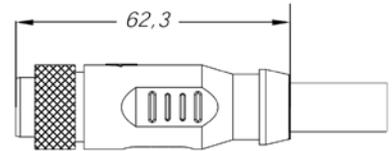
HIGO



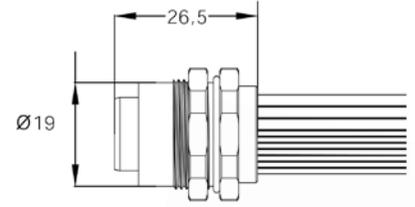
MOTOR CONNECTORS SCREW LOCKING



MALE PLUG



FEMALE PLUG



FEMALE REAR PANEL MOUNT



ARTICLE NUMBER BUILD-UP:

Number of poles:
10 (3+7)

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

L1019D* * * * *

M: Female
G: Male

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

BX: PVC cable
3x10AWG+7x26AWG
BY: PVC single wires,
3x10AWG+7x26AWG

P: Plug
R: Rear panel mount

Cable length in mm

CHARACTERISTICS

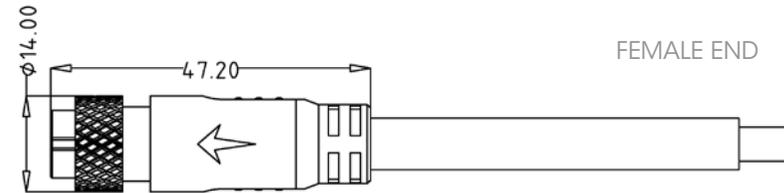
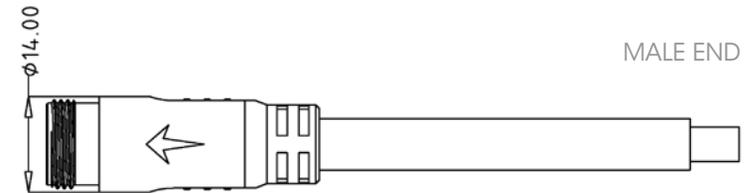
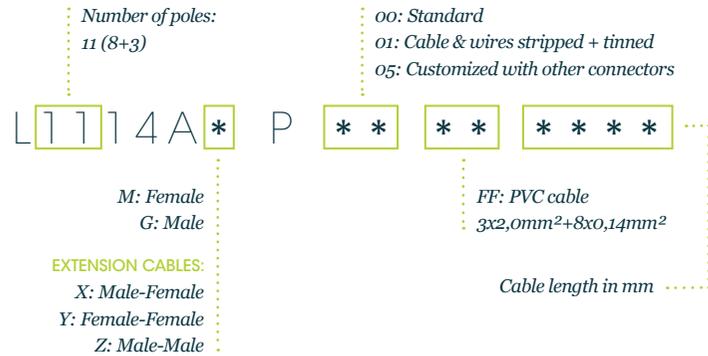
Temperature Range:	-25°C up to +80°C
Rated Voltage:	48V AC / 60V DC
Rated Current:	45A / 2A, 2 power pin loaded 40A / 2A, 3 power pin loaded
Contact Resistance:	≤10mΩ
Insulation Resistance:	≥20MΩ
Protection Level:	IP67
Mating Cycles:	200 times
Outside Diameter:	19,0mm
Fitting Length:	114,0mm
Wire Specification:	3 x 10AWG + 7 x 26AWG

CONNECTOR

MOTOR CONNECTORS **PUSH-ON**



ARTICLE NUMBER BUILD-UP:



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



NO PARKING

'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, Business Development Manager



CABLE HARNESSES

60 - 61



SPLITTERS

62 - 63

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

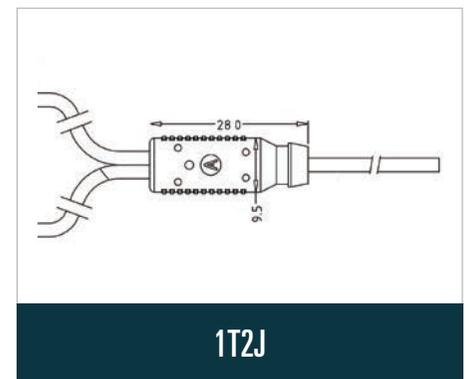
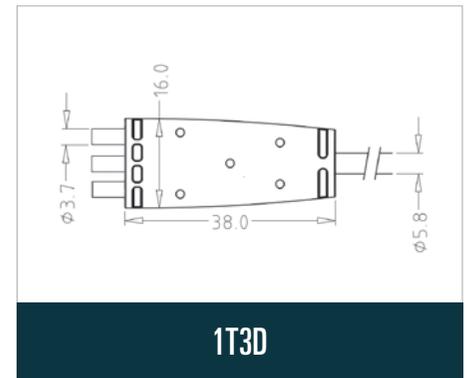
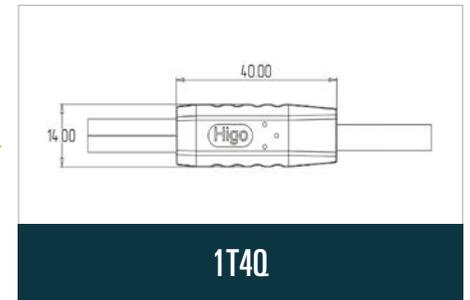
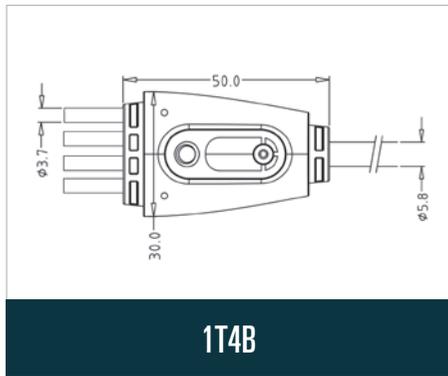
CABLE HARNESSES



SPLITTERS

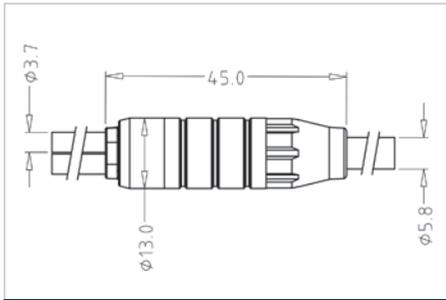


A&C Solutions offers a wide range of possibilities when it comes to customized splitters. Splitters are mainly used for the parallel circuiting of signals to other e-bike parts. But they can also simplify the wiring diagram which accelerates the actual installation process. Higo makes the installation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

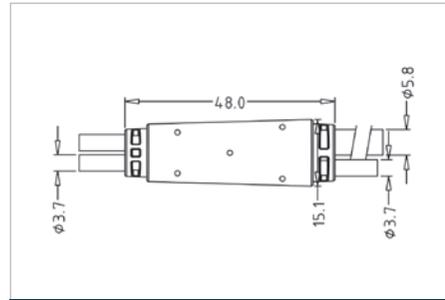


SPLITTERS

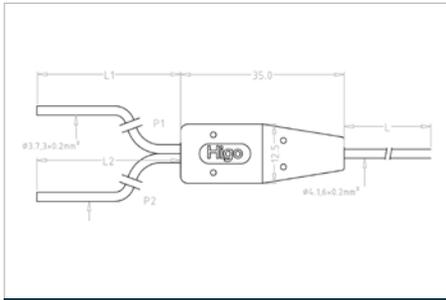
Any kind of e-mobility splitter can be fully designed around each customer's requirements. It is up to the customer to determine the cable length, the cable type (PVC or TPU) and the level of finishing (crimped, stripped or with a different contact) needed for the application.



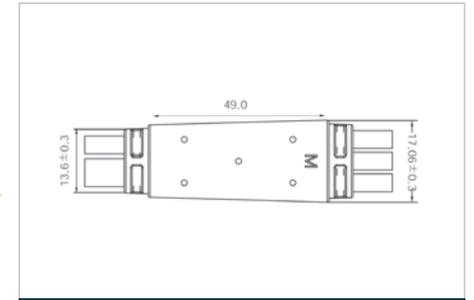
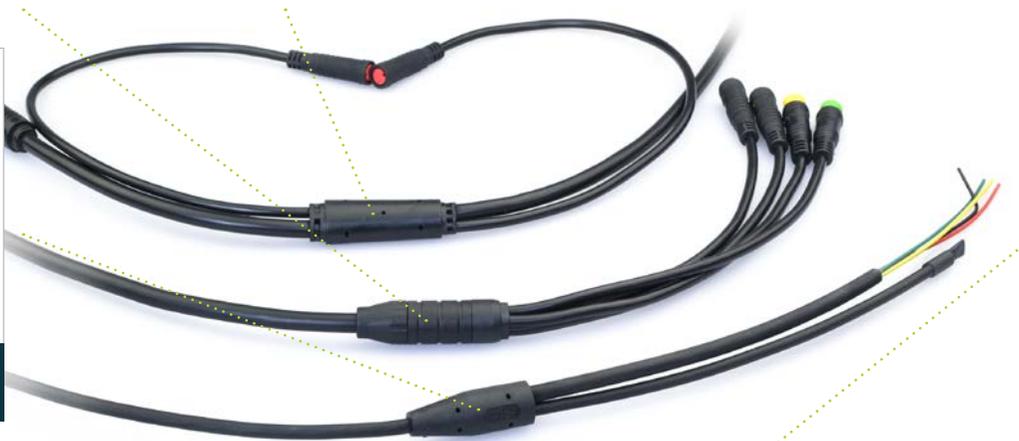
1T4G



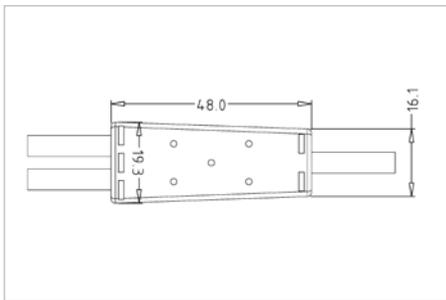
1T3H



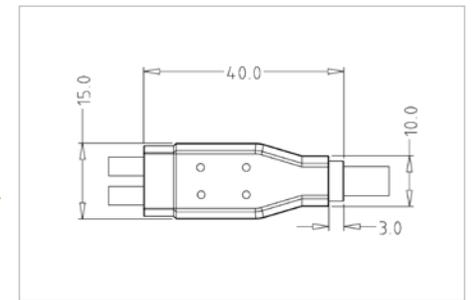
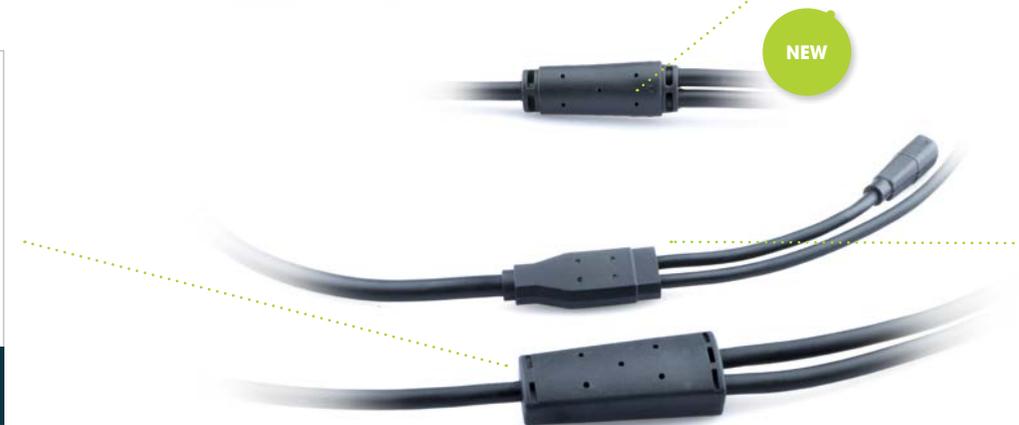
1T3K



1T2M



1T2S



1T2W

Discover our complete connector & power supply program



ELECTRONICS & AUTOMATION



LIGHTING INDUSTRY



E-MOBILITY

CONNECTORS



POWER SUPPLIES



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No.588 Jiayuan Road
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