

WATERPROOF CONNECTORS FOR HIGH-SPEED ELECTRICAL MOTORCYCLES



BATTERY



SIGNAL



SPLITTER

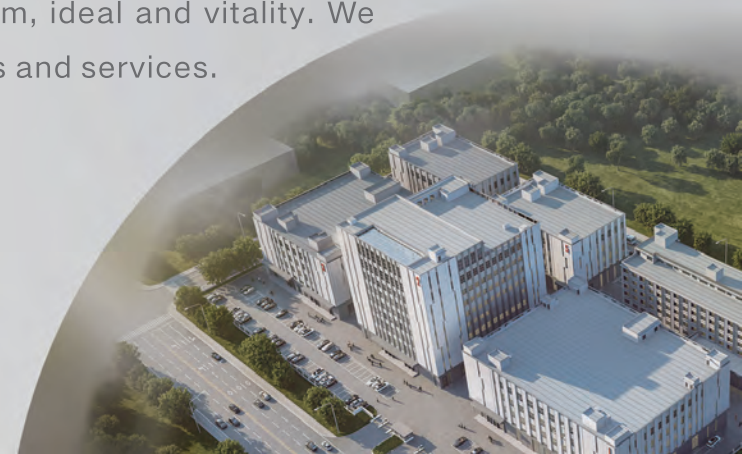


About HIGO

Established in 2008, HIGO set up its operational headquarters in 2020 at High-speed Rail New Town, Suzhou. We are committed to R&D, manufacturing and sales of electronic connectors and harness systems and intelligent displays for intelligent transportation, ocean, and agriculture, ranking highly among this field worldwide.

HIGO has several manufacturing bases in mainland China, and has established branches in Stuttgart (Germany) and Taoyuan (Taiwan). Experiencing years of development, HIGO has been accredited as “High-tech Enterprise of Jiangsu Province,” “Private Enterprise Specialized in Science and Technology of Jiangsu Province,” “Industrial Design Centre of Suzhou,” and “Engineering Technology Centre of Suzhou.”, and has won the trust of over 1000 customers in more than 20 countries around the world, occupying a significant share of the mid-to-high-end market.

Based on the connection, HIGO will build up core competitiveness by adhering to the concept of sustainable development, creating a global enterprise with wisdom, ideal and vitality. We aim to connect the world and the future with more intelligent products and services.



Security Certification

Whatever the domestic or overseas customers have the continuously concern the quality and safety of connectors. To eliminate such concerns Higo combined the full range of waterproof connector (signal/ battery/motor) and kicked off the certificates process of CQC, UL and IATF16949 from 2019.

Remark:

UL (Underwriter Laboratories Inc.) is the most authoritative safety testing and certification institution in the United States.



CQC is the member of institution as the representative of China in IECEE, IQNet and IFOAM.

IATF16949 is the abbreviation of the automotive quality management standard. The clause based on automotive customer specific requirements as well as ISO 9001 and ISO 9000. The standard define the quality management system requirement for the design and development, production when relevant assembly, installation and service of automotive related products.





Serial Numbers



BATTERY

HG	-	F . B	-	*			*																
HIGO		WATERPROOF BATTERY		MATING TYPE	POLE	OUTER DIAMETER	SERIES																
				<table border="1"> <tr> <td>Z (PUSH ON)</td> <td>02-15</td> <td>05-99</td> <td>A-Z</td> </tr> <tr> <td>L (SCREW-LOCKING)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>S (SELF-LOCKING)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>F (FLEXIBLE STRUCTURE)</td> <td></td> <td></td> <td></td> </tr> </table>				Z (PUSH ON)	02-15	05-99	A-Z	L (SCREW-LOCKING)				S (SELF-LOCKING)				F (FLEXIBLE STRUCTURE)			
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SIGNAL

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S (SELF-LOCKING)																			

SPLITTER

HG	-	F . T	-		T		*				
HIGO		WATERPROOF SPLITTER		MAIN CABLE	SPLITTER	AUXILIARY CABLE	SERIES				
				<table border="1"> <tr> <td>1-9</td> <td></td> <td>1-9</td> <td>A-Z</td> </tr> </table>				1-9		1-9	A-Z
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Product Catalog

BATTERY

HG-F.B-S526A 02

HG-F.B-Z718A 03

HG-F.B-Z960A 04

HG-F.B-S828B 05

HG-F.B-S828B-2 06

HG-F.B-S824E 07

HG-F.B-S1024A 08

HG-F.B-S1028A&B 09

HG-F.B-S835A 10

HG-F.B-S1340A 11

HG-F.B-S1050A 12

HG-F.B-S1060A 13

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HG-F.T-3T6A 23

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BATTERY

BATTERY

HG-F.B-S526A 02

HG-F.B-Z718A 03

HG-F.B-Z960A 04

HG-F.B-S828B 05

HG-F.B-S828B-2 06

HG-F.B-S824E 07

HG-F.B-S1024A 08

HG-F.B-S1028A&B 09

HG-F.B-S835A 10

HG-F.B-S1340A 11

HG-F.B-S1050A 12

HG-F.B-S1060A 13

HG-F.B-S526A

Electrical Characteristics

Rated Voltage	60V AC
Rated Current	Power 25A Signal 2A
Withstanding Voltage	700V
Insulation Resistance	≥20MΩ
Contact Resistance	≤10mΩ

Mechanical Characteristics

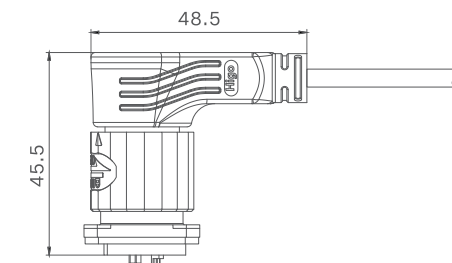
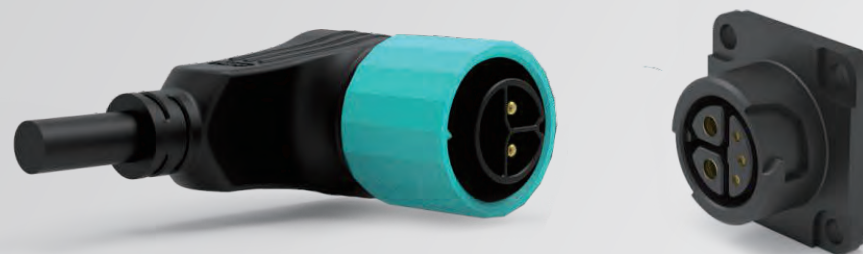
Mating Cycles	3000 cycles
Mating Type	Self-locking
Mating and Unmating Force	Mating force : 80N max

Environment Characteristics

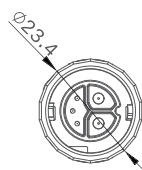
Protection Level	IP67
Operation Temperature	-25℃~+80℃

Other Specification

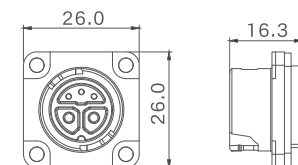
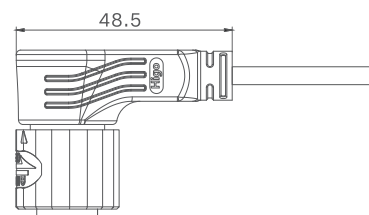
Maximum Diameter	26.0mm
Mating Length	45.5mm
Contact Material	Copper alloy plated with gold
Cable Spec.	OD: 7.0mm, 2 × 2.5mm ² +3 × 0.2mm ² -PVC



Mating Size



Male Size



Female Size

HG-F.B-Z718A



Electrical Characteristics

Rated Voltage	60V AC
Rated Current	Power 25A Signal 2A
Withstanding Voltage	700V
Insulation Resistance	$\geq 20M\Omega$
Contact Resistance	$\leq 10m\Omega$

Mechanical Characteristics

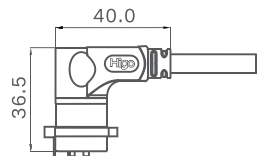
Mating Cycles	3000 cycles
Mating Type	Push on
Mating and Unmating Force	Mating force : 80N max Unmating force : 30N min

Environment Characteristics

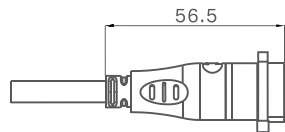
Protection Level	IP67
Operation Temperature	-25°C~+80°C

Other Specification

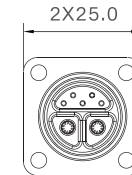
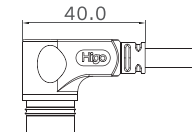
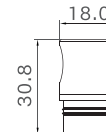
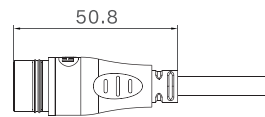
Maximum Diameter	18.0mm
Mating Length	56.5mm
Contact Material	Copper alloy plated with gold
Cable Spec.	OD:6.8mm,2×2.5mm ² +5×0.2mm ² -PVC



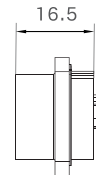
Mating Size



Male Size



Female Size



HG-F.B-Z960A

Electrical Characteristics

Rated Voltage	60V AC
Rated Current	Power 40A Signal 2A
Withstanding Voltage	700V
Insulation Resistance	$\geq 20M\Omega$
Contact Resistance	$\leq 10m\Omega$

Mechanical Characteristics

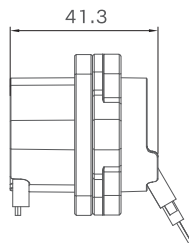
Mating Cycles	3000 cycles
Mating Type	Push on
Mating and Unmating Force	Mating force : 100N max Unmating force : 30N min

Environment Characteristics

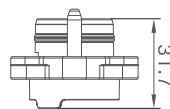
Protection Level	IP67
Operation Temperature	-25°C~+80°C

Other Specification

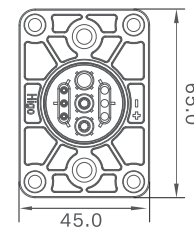
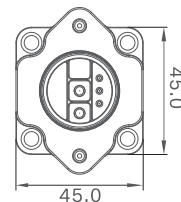
Maximum Diameter	65.0mm
Mating Length	41.3mm
Contact Material	Copper alloy plated with silver
Cable Spec.	①:OD:5.3mm,5.0mm ² ②:OD:1.4mm,0.2mm ²



Mating Size



Male Size



Female Size



HG-F.B-S828B



Electrical Characteristics

Rated Voltage	60V AC
Rated Current	Power 50A+12A Signal 2A
Withstanding Voltage	700V
Insulation Resistance	≥20MΩ
Contact Resistance	≤10mΩ

Mechanical Characteristics

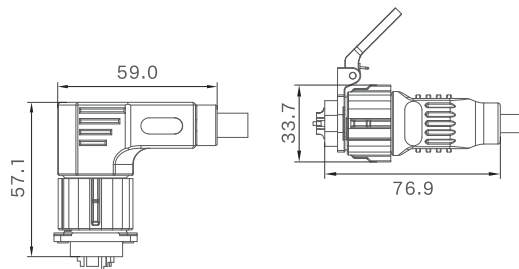
Mating Cycles	3000 cycles
Mating Type	Self-locking
Mating and Unmating Force	Mating force : 80N max

Environment Characteristics

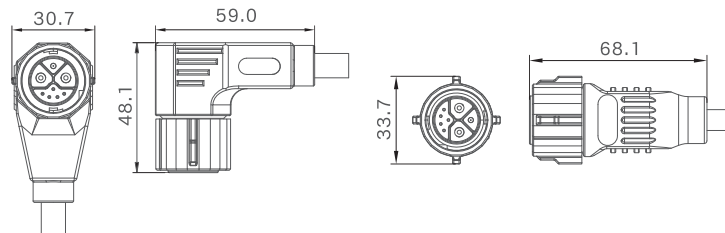
Protection Level	IP67
Operation Temperature	-25°C~+80°C

Other Specification

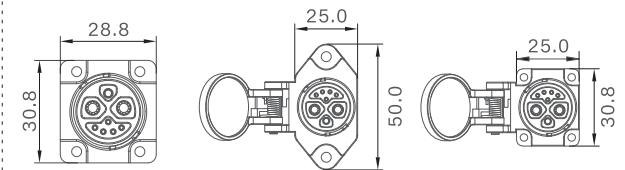
Maximum Diameter	28.0mm
Mating Length	76.9mm
Contact Material	Copper alloy plated with silver
Cable Spec.	OD:10.0mm,2×10AWG+1×18AWG+5×22AWG-PVC



Mating Size



Male Size



Female Size

HG-F.B-S828-B2

Electrical Characteristics

Rated Voltage	100V AC
Rated Current	Power 70A+12A Signal 2A
Withstanding Voltage	1000V
Insulation Resistance	≥20MΩ
Contact Resistance	≤10mΩ

Mechanical Characteristics

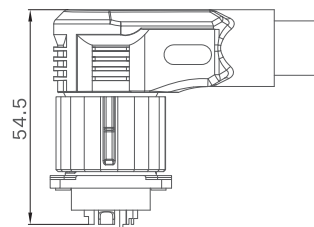
Mating Cycles	3000 cycles
Mating Type	Self-locking
Mating and Unmating Force	Mating force : 80N max

Environment Characteristics

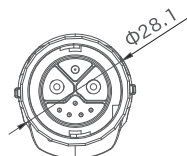
Protection Level	IP67
Operation Temperature	-25°C~+80°C

Other Specification

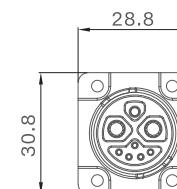
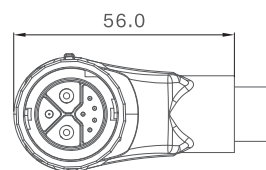
Maximum Diameter	28.1mm
Mating Length	54.5mm
Contact Material	Copper alloy plated with silver
Cable Spec.	OD:13.8mm,2×10.0mm ² +1×16AWG+5×22AWG-PVC



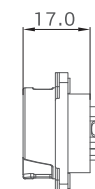
Mating Size



Male Size



Female Size



HG-F.B-S824E



Electrical Characteristics

Rated Voltage	110V AC
Rated Current	Power 70A Signal 2A
Withstanding Voltage	1000V
Insulation Resistance	$\geq 20M\Omega$
Contact Resistance	$\leq 10m\Omega$

Mechanical Characteristics

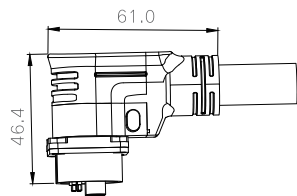
Mating Cycles	3000 Cycles
Mating Type	Self-locking
Mating and Unmating Force	Mating force: 80N Max

Environmental Characteristics

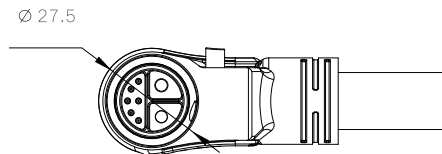
Protection Level	IP67
Operation Temperature	-30°C~+105°C

Other Specifications

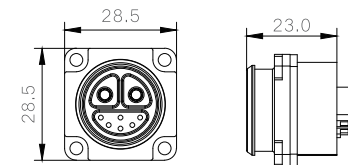
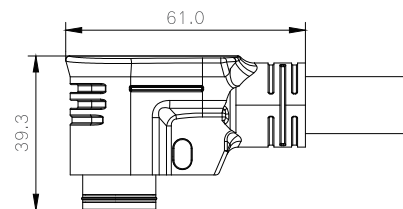
Maximum Diameter	28.5mm
Mating Length	46.4mm
Contact Material	Copper alloy plated with gold
Cable Recommend	OD: 13.6mm, 2x10.0mm ² +6x0.2mm ² -PVC



Mating Size



Male Size



Female Size

HG-F.B-S1024A

Electrical Characteristics

Rated Voltage	110V AC
Rated Current	Power 80A Signal 5A
Withstanding Voltage	1000V
Insulation Resistance	$\geq 20M\Omega$
Contact Resistance	$\leq 10m\Omega$

Mechanical Characteristics

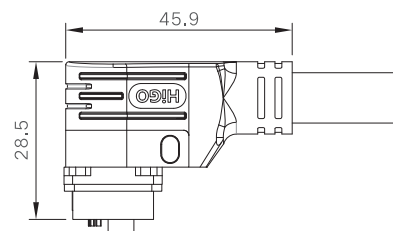
Mating Cycles	3000 Cycles
Mating Type	Self-locking
Mating and Unmating Force	Mating force : 80N Max

Environmental Characteristics

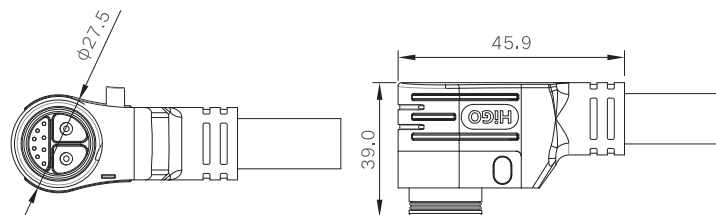
Protection Level	IP67
Operation Temperature	-30°C~+105°C

Other Specifications

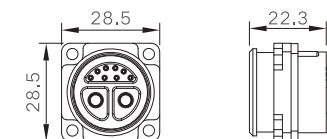
Maximum Diameter	28.5mm
Mating Length	45.9mm
Contact Material	Copper alloy plated with silver
Cable Recommend	OD:14.5mm , 2 × 10.0mm ² +8 × 0.5mm ² -pvc



Mating Size



Male Size



Female Size

HG-F.B-S1028A&B

Electrical Characteristics

Rated Voltage	110V AC
Rated Current	Power 80A Signal 5A
Withstanding Voltage	1000V
Insulation Resistance	≥20MΩ
Contact Resistance	≤10mΩ

Mechanical Characteristics

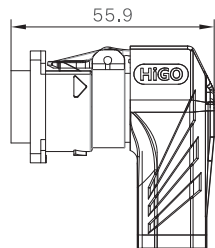
Mating Cycles	3000 Cycles
Mating Type	Self-locking
Mating and Unmating Force	Mating force : 100N max

Environmental Characteristics

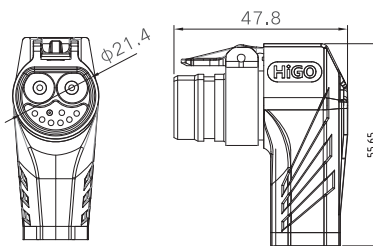
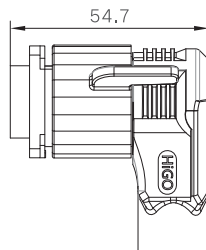
Protection Level	IP67
Operation Temperature	-30°C~+105°C

Other Specifications

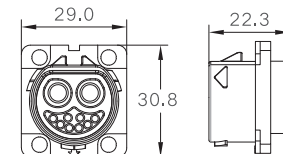
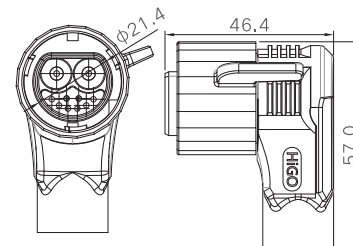
Maximum Diameter	30.8mm
Mating Length	55.9mm&54.7mm
Contact Material	Copper alloy plated with silver
Cable Recommend	OD: 14.5mm; 2x10.0mm ² +8x0.5mm ² -PVC



Mating Size



Male Size



Female Size

HG-F.B-S835A

Electrical Characteristics

Rated Voltage	110V AC
Rated Current	Power 100A Signal 5A
Withstanding Voltage	1000V
Insulation Resistance	$\geq 20M\Omega$
Contact Resistance	$\leq 10m\Omega$

Mechanical Characteristics

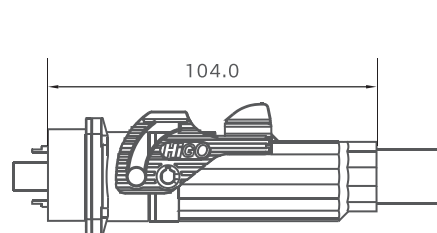
Mating Cycles	3000 cycles
Mating Type	Self-locking
Mating and Unmating Force	Mating force : 80N max

Environment Characteristics

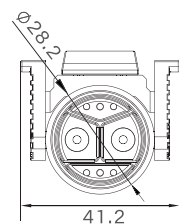
Protection Level	IP67
Operation Temperature	-30°C~+105°C

Other Specification

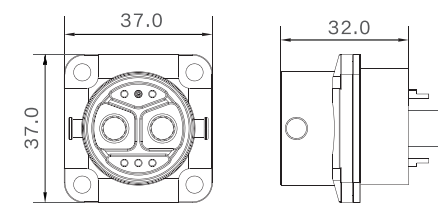
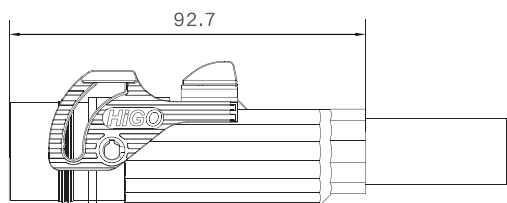
Maximum Diameter	35.0mm
Mating Length	104.0mm
Contact Material	Copper alloy plated with silver
Cable Spec.	OD:17mm,2x16mm ² +6x0.5mm ² -PVC



Mating Size



Male Size



Female Size

HG-F.B-S1340A



Electrical Characteristics

Rated Voltage	110V AC
Rated Current	Elbow current 100A+25A Signal 5A Straight head current 40A Signal 5A
Withstanding Voltage	1000V
Insulation Resistance	≥20MΩ
Contact Resistance	≤10mΩ

Mechanical Characteristics

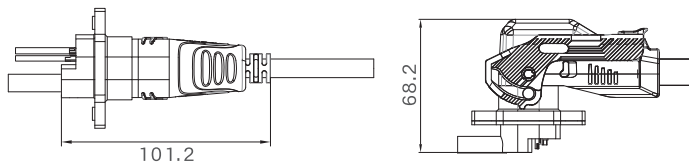
Mating Cycles	3000 cycles
Mating Type	Self-locking
Mating and Unmating Force	Mating force : 100N max

Environment Characteristics

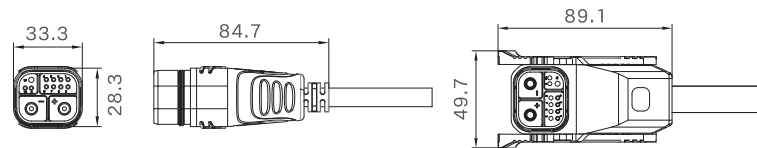
Protection Level	IP67
Operation Temperature	-30°C ~ +105°C

Other Specification

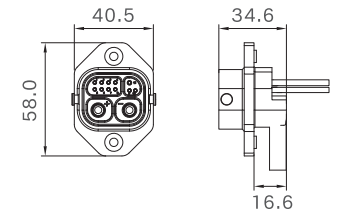
Maximum Diameter	40.5mm
Mating Length	101.2mm
Contact Material	Copper alloy plated with silver
Cable Spec.	①OD:18.0mm,2×16.0mm ² +1×2.5mm ² +10×0.5mm ² -PVC ②OD:9.1mm,2×4.0mm ² +1×2.5mm ² +10×0.5mm ² -PVC



Mating Size



Male Size



Female Size

HG-F.B-S1050A

Electrical Characteristics

Rated Voltage	110V AC
Rated Current	Power 150A Signal 5A
Withstanding Voltage	1000V
Insulation Resistance	$\geq 20M\Omega$
Contact Resistance	$\leq 10m\Omega$

Mechanical Characteristics

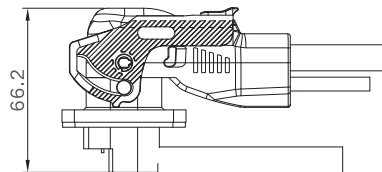
Mating Cycles	3000 cycles
Mating Type	Self-locking
Mating and Unmating Force	Mating force : 100N Max

Environment Characteristics

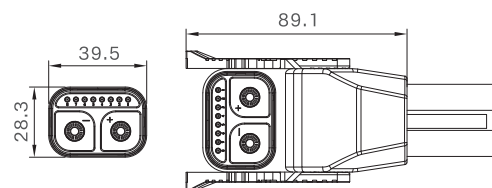
Protection Level	IP67
Operation Temperature	-30°C~+105°C

Other Specification

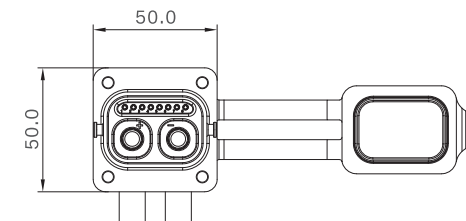
Maximum Diameter	50.0mm
Mating Length	66.2mm
Contact Material	Copper alloy plated with silver
Cable Spec.	OD:2x25.0mm ² +8x0.5mm ² -PVC



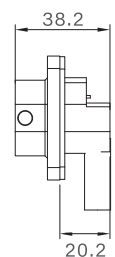
Mating Size



Male Size



Female Size



HG-F.B-S1060A

Electrical Characteristics

Rated Voltage	110V AC
Rated Current	Power 200A Signal 5A
Withstanding Voltage	1000V
Insulation Resistance	$\geq 20M\Omega$
Contact Resistance	$\leq 10m\Omega$

Mechanical Characteristics

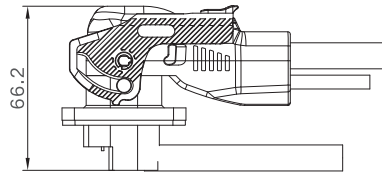
Mating Cycles	3000 cycles
Mating Type	Self-locking
Mating and Unmating Force	Mating force : 100N Max

Environment Characteristics

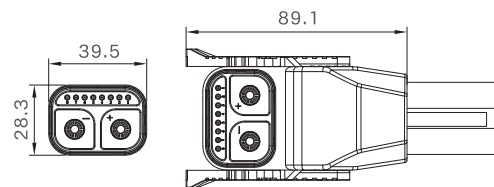
Protection Level	IP67
Operation Temperature	-30°C~+105°C

Other Specification

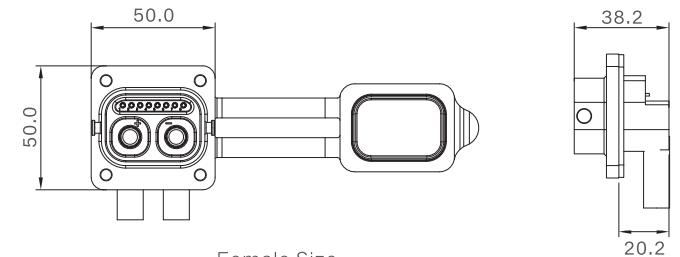
Maximum Diameter	50.0mm
Mating Length	66.2mm
Contact Material	Copper alloy plated with silver
Cable Spec.	OD:2x25.0mm ² +8x0.5mm ² -PVC



Mating Size



Male Size



Female Size

2



SIGNAL

HG-F.S-Z*09B 15

HG-F.S-Z*09C 16

HG-F.S-Z1513A 17

HG-F.S-Z710A 18

HG-F.S-L810A 19

HG-F.S-Z*11C 20



HG-F.S-Z*09B



Electrical Characteristics

Rated Voltage	48V AC
Rated Current	2A
Withstanding Voltage	500V
Insulation Resistance	≥20MΩ
Contact Resistance	≤10mΩ

Mechanical Characteristics

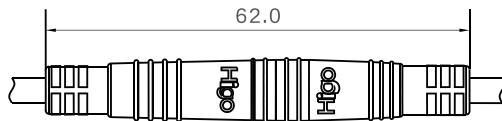
Mating Cycles	200 cycles
Mating Type	Push on
Mating and Unmating Force	Mating force : 80N max Unmating force : 30N min

Environment Characteristics

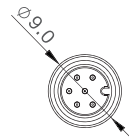
Protection Level	IP67
Operation Temperature	-25°C~+80°C

Other Specification

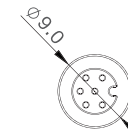
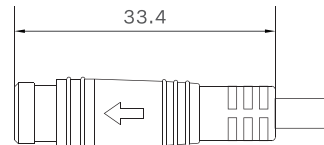
Maximum Diameter	9.0mm
Mating Length	62.0mm
Contact Material	Copper alloy plated with gold
Cable Spec.	①:OD:3.7mm,2×0.20mm ² -PVC ②:OD:3.7mm,3×24AWG-PVC ③:OD:3.7mm,4×0.14mm ² -PVC ④:OD:4.0mm,5×26AWG-PVC ⑤:OD:3.5mm,6×0.14mm ² -PVC



Mating Size



Male Size



Female Size



Electrical Characteristics

Rated Voltage	48V AC
Rated Current	2A
Withstanding Voltage	500V
Insulation Resistance	≥20MΩ
Contact Resistance	≤10mΩ

Mechanical Characteristics

Mating Cycles	200 cycles
Mating Type	Screw-locking
Mating and Unmating Force	Mating force : 80N max

Environment Characteristics

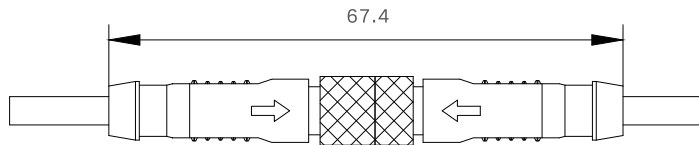
Protection Level	IP67
Operation Temperature	-25°C~+80°C

Other Specification

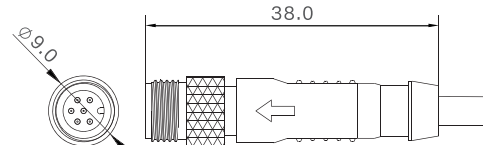
Maximum Diameter	9.0mm
Mating Length	67.4mm
Contact Material	Copper alloy plated with gold
Cable Spec.	①:OD:3.7mm,2×24AWG-PVC ②:OD:3.7mm,3×0.20mm ² -TPU ③:OD:3.7mm,4×26AWG-PVC ④:OD:4.0mm,5×0.14mm ² -TPU ⑤:OD:4.0mm,6×26AWG-PVC



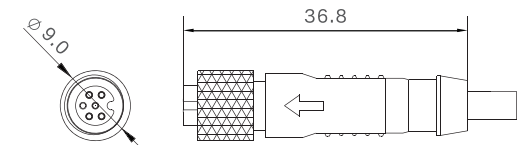
SIGNAL



Mating Size



Male Size



Female Size

HG-F.S-Z1513A



Electrical Characteristics

Rated Voltage	48V AC
Rated Current	2A
Withstanding Voltage	500V
Insulation Resistance	$\geq 20M\Omega$
Contact Resistance	$\leq 10m\Omega$

Mechanical Characteristics

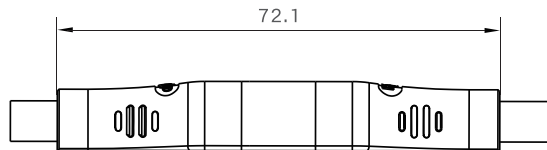
Mating Cycles	200 cycles
Mating Type	Push on
Mating and Unmating Force	Mating force : 80N max Unmating force : 30N min

Environment Characteristics

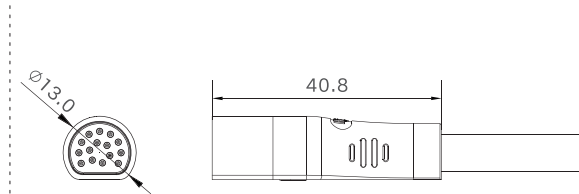
Protection Level	IP67
Operation Temperature	-25°C~+80°C

Other Specification

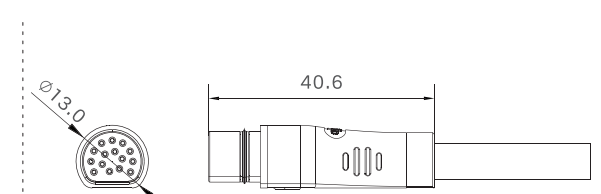
Maximum Diameter	13.0mm
Mating Length	72.1mm
Contact Material	Copper alloy plated with gold
Cable Spec.	OD:6.6mm,15×0.14mm ² -PVC



Mating Size



Male Size



Female Size

Electrical Characteristics

Rated Voltage	48V AC
Rated Current	2A
Withstanding Voltage	500V
Insulation Resistance	$\geq 20M\Omega$
Contact Resistance	$\leq 10m\Omega$

Mechanical Characteristics

Mating Cycles	200 cycles
Mating Type	Push on
Mating and Unmating Force	Mating force: 80N max Unmating force: 30N min

Environment Characteristics

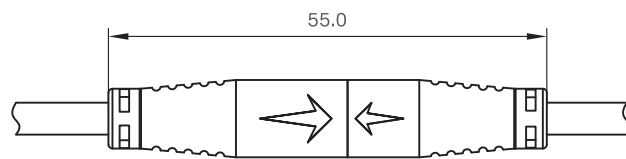
Protection Level	IP67
Operation Temperature	-25°C~+80°C

Other Specification

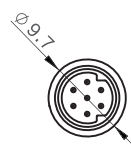
Maximum Diameter	10.0mm
Mating Length	55.0mm
Contact Material	Copper alloy plated with gold
Cable Spec.	OD:4.0mm,7×0.14mm ² -PVC



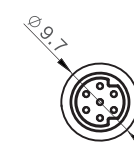
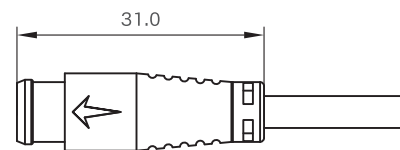
SIGNAL



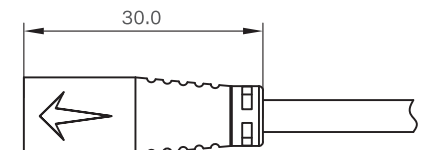
Mating Size



Male Size



Female Size



HG-F.S-L810A

Electrical Characteristics

Rated Voltage	48V AC
Rated Current	2A
Withstanding Voltage	500V
Insulation Resistance	$\geq 20M\Omega$
Contact Resistance	$\leq 10m\Omega$

Mechanical Characteristics

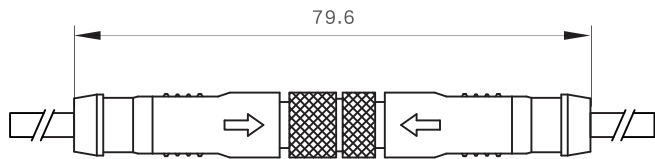
Mating Cycles	200 cycles
Mating Type	Screw-locking
Mating and Unmating Force	Mating force : 80N max

Environment Characteristics

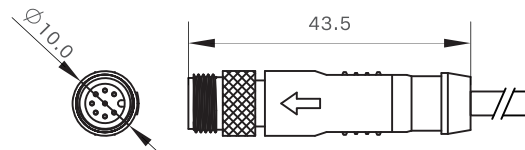
Protection Level	IP67
Operation Temperature	-25°C~+80°C

Other Specification

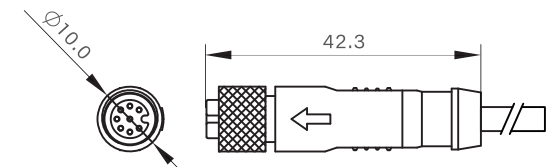
Maximum Diameter	10.0mm
Mating Length	79.6mm
Contact Material	Copper alloy plated with gold
Cable Spec.	OD:5.8mm,8×0.2mm ² -PVC



Mating Size



Male Size



Female Size

Electrical Characteristics

Rated Voltage	48V AC
Rated Current	2A
Withstanding Voltage	500V
Insulation Resistance	≥20MΩ
Contact Resistance	≤10mΩ

Mechanical Characteristics

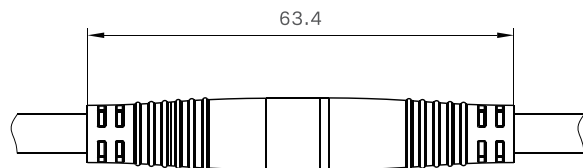
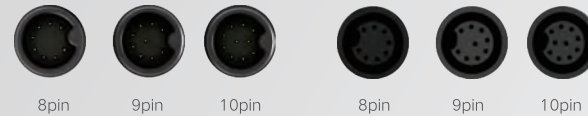
Mating Cycles	200 cycles
Mating Type	Push on
Mating and Unmating Force	Mating force : 80N max Unmating force : 30N min

Environment Characteristics

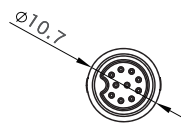
Protection Level	IP67
Operation Temperature	-25°C~+80°C

Other Specification

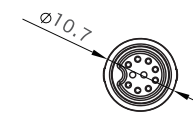
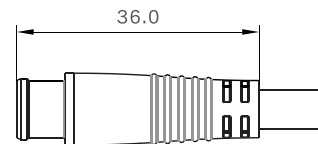
Maximum Diameter	10.7mm
Mating Length	63.4mm
Contact Material	Copper alloy plated with gold
Cable Spec.	OD:5.0mm,8×0.2mm ² -PVC



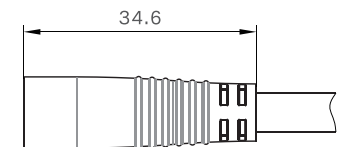
Mating Size



Male Size



Female Size



3



SPLITTER

HG-F.T-2T3A 22

HG-F.T-3T6A 23



Electrical Characteristics

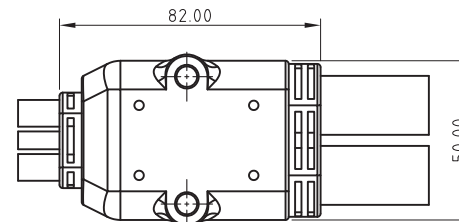
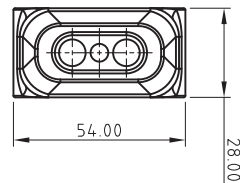
Withstanding Voltage	500V
Insulation Resistance	$\geq 20M\Omega$
Contact Resistance	$\leq 10m\Omega$

Environmental Characteristics

Protection Level	IP67
Temperature Range	$-30^{\circ}C \sim -105^{\circ}C$

Other Specifications

Maximum Diameter	82*28*50mm
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HG-F.T-3T6A



Electrical Characteristics

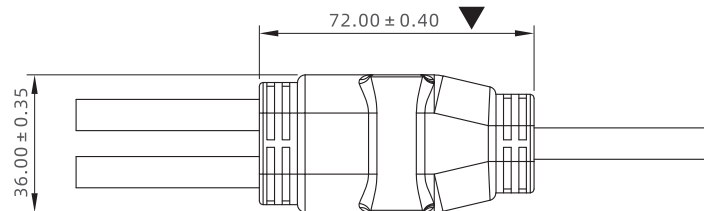
Withstanding Voltage	1000V
Insulation Resistance	$\geq 20M\Omega$
Contact Resistance	$\leq 10m\Omega$

Environmental Characteristics

Protection Level	IP67
Temperature Range	-25°C~+80°C

Other Specifications

Maximum Diameter	72*45*36mm
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HIGO TECHNOLOGY (SUZHOU) CO., LTD

- Tel: 0512-51918061
- E-mail: higo@higocon.com
- Web: www.higocon.com
- Add: HQ: 4F Building 9B, No. 286 Qinglonggang Road, Xiangcheng District, Suzhou 215131, Jiangsu, China.
Manufacturing Base: No.17, Xiaofang Middle Road, Xinzhuang Town, Changshu City, Jiangsu Province.
Taipei branch: RM 4, 16F., No.207-B, Fuxing Rd., Taoyuan, Taiwan
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