

JONHON

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Vehicle Signal Connector

CT63 series

Introduction

- Comply with JONHON standard Q/21EJ623.
- Metal housing, bayonet locking, five keyings, different color for error proof, single-receptacle sealed, water proof, etc. Adapted with 0.5 mm² ~ 0.75 mm² wires.



Application

Used for signal transmission between battery box and vehicle end, battery line and charging end, and suitable for vibration environment during driving.

Main technical performance

Rated current: 9A (max)

Rated voltage: 220V

Working temp: -40°C ~ 125°C

IP degree: IP68

Ordering information

Series name	CT63	H	-	14	12	Z	J	(BL)	M	-	01	A001
Mounting type	Default: square plate front mounting H: square plate back mounting											
Separator	-											
Housing No.	12, 14, 16											
No. of pins	08, 12, 19 (same name rule) or 22, 28, 36 (different name rule)											
Plug/ receptacle type	T: plug Z: receptacle											
Contact type	J: pin K: socket											
Keying	(BL): blue, (BK): black, (RE): red, (YE): yellow, (GR): green or N, A, B, C, D											
Sealing	Default: unsealed receptacle		M: sealed receptacle									
Separator	-											
Modification	01, 02,											
Separately-ordered contact	A001, A002.....											

Example

CT63H-1412ZJ(BK)M-01: CT63 series, housing 14, 12-pin, pin in receptacle, single-receptacle sealed, black, back mounting.

Recommended models

No. of pins	Appearance	Model list	Product description (Separately-ordered contacts have gold-plated and silver-plated to choose)
8-pin		CT63-1208TK(BL)-01	Plug, blue, gold-plated contact, metal accessory
		CT63-1208TK(BL)-02	Plug, blue, separately-ordered contact, plastic accessory
		CT63-1208TK(BL)-04 A001	Plug, blue, separately-ordered contact, metal accessory
		CT63-1208ZJ(BL)M-01	Receptacle, blue, separately-ordered contact, single-receptacle sealed, front mounting
		CT63H-1208ZJ(BL)M-01	Receptacle, blue, separately-ordered contact, single-receptacle sealed, back mounting
		CT63-1208ZJ(BL)-01	Receptacle, blue, gold-plated contact, front mounting
		CT63-1208ZJ(BL)-02	Receptacle, blue, separately-ordered contact, front mounting
		CT63-1208TJ(BL)-01	Plug, blue, gold-plated contact, metal accessory
		CT63-1208TJ(BL)-01 A001	Plug, blue, separately-ordered contact, metal accessory
		CT63-1208ZK(BL)-01	Receptacle, blue, gold-plated contact, front mounting
		CT63-1208ZK(BL)-01 A001	Receptacle, blue, separately-ordered contact, front mounting
12-pin		CT63-1412TK(BL)-01	Plug, blue, gold-plated contact, metal accessory
		CT63-1412TK(BL)-03	Plug, blue, separately-ordered contact, plastic accessory
		CT63-1412TK(BL)-04	Plug, blue, gold-plated contact, metal accessory, L and M holes are adapted with 1 ~ 1.5 mm ² wires
		CT63-1412TK(BL)-01 A001	Plug, blue, separately-ordered contact, metal accessory

No. of pins	Appearance	Model list	Product description (Separately-ordered contacts have gold-plated and silver-plated to choose)
12-pin		CT63-1412ZJ(BL)M-01	Receptacle, blue, separately-ordered contact, single-receptacle sealed, front mounting
		CT63H-1412ZJ(BL)M-01	Receptacle, blue, separately-ordered contact, single-receptacle sealed, back mounting
		CT63-1412ZJ(BL)-01	Receptacle, blue, gold-plated contact, front mounting
		CT63-1412ZJ(BL)-02	Receptacle, blue, separately-ordered contact, front mounting
12-pin		CT63-1412TJ(BL)-01	Plug, blue, silver-plated contact, metal accessory
		CT63-1412TJ(BL)-01 A001	Plug, blue, separately-ordered contact, metal accessory
		CT63-1412ZK(BL)-01	Receptacle, blue, silver-plated contact, front mounting
		CT63-1412ZK(BL)-01 A001	Receptacle, blue, separately-ordered contact, front mounting
19-pin		CT63-1619TJN-01	Plug, N keying, gold-plated contact, metal accessory
		CT63-1619TJN-01 A001	Plug, N keying, separately-ordered contact, metal accessory
		CT63-1619TJN-03	Plug, N keying, silver-plated contact, plastic accessory
		CT63-1619ZKNM-01	Receptacle, N keying, separately-ordered contact, single-receptacle sealed, front mounting
		CT63H-1619ZKNM-01	Receptacle, N keying, separately-ordered contact, single-receptacle sealed, back mounting
		CT63-1619ZKN-02	Receptacle, N keying, gold-plated contact, front mounting
		CT63-1619ZKN-02 A001	Receptacle, N keying, separately-ordered contact, front mounting
		CT63-1619TKN-01	Plug, N keying, gold-plated contact, metal accessory
		CT63-1619TKN-02	Plug, N keying, gold-plated contact, plastic accessory
		CT63-1619TKN-01 A001	Plug, N keying, separately-ordered contact, metal accessory

No. of pins	Appearance	Model list	Product description (Separately-ordered contacts have gold-plated and silver-plated to choose)
19-pin		CT63-1619ZJNM-01	Receptacle, N keying, separately-ordered contact, single-receptacle sealed, front mounting
		CT63-1619ZJN-01	Receptacle, N keying, gold-plated contact, front mounting
		CT63-1619ZJN-01 A001	Receptacle, N keying, separately-ordered contact, front mounting
28-pin		CT63C-2028TKE36	Plug, N keying, separately-ordered contact, metal accessory
		CT63CL-2028ZJE36	Receptacle, N keying, separately-ordered contact, thread mounting
		CT63CL-2028ZJE36M-01	Receptacle, N keying, separately-ordered contact, single-receptacle sealed, thread mounting
		CT63-2028ZJM-01	Receptacle, N keying, separately-ordered contact, single-receptacle sealed, square plate front mounting
36-pin		CT63H-2028ZJM-01	Receptacle, N keying, separately-ordered contact, single-receptacle sealed, square plate back mounting
		ES1-36TKN	Plug, N keying, gold-plated contact, no accessory, single-socket sealed
		ES1-36ZJN	Receptacle, N keying, gold-plated contact, single-receptacle sealed, thread mounting

EVS5 series

Introduction

- Comply with JONHON standard Q/21EJ5836.
- Wire-to-wire and wire-to-board signal waterproof connector with plastic housing, of which 4-pin, 8-pin, 14-pin, 20-pin, 23-pin are direct push-pull quick locking, 8-pin and 18-pin receptacle are front mounting, 14-pin, 20-pin and 32-pin receptacle are back mounting, and 14-pin and 23-pin are wire-to-board connectors. Flat crimping contact, adapted with 0.35 mm², 0.5 mm² and 0.75 mm² wires, adapted wire OD are Φ 1.2 ~ Φ 1.9. The contact, waterproof blocking and blind blocking need to be ordered separately.



Application

Used for signal transmission and monitoring of electric vehicles.

Main technical performance

Rated current: 9A (max)

Rated voltage: 24V DC

Working temp: -40°C ~ 125°C

IP degree: IP68

Ordering information

Series name	EVS5	-	32	B	T	K	A	-	-01
Separator	-								
No. of contacts	8/14/18/20/23/32								
Insert arrangement	B, C, D, E								
Plug/ receptacle type	T: plug	Z: receptacle							
Contact type	K: socket	J: pin							
Keying	A, B, C, D								
Separator	-								
Modification	-01, -02, -03.....								

Example

EVS5-32BTK: 32-pin plug, insert arrangement is B.

Recommended models

No. of pins	Appearance	Model list	Product description
4pin		EVS5-04BTKA	4-pin plug Contact, waterproof blocking, blind blocking need to be ordered separately
		EVS5-04BZJA-S	4-pin receptacle, clip Contact, waterproof blocking, blind blocking need to be ordered separately
8pin		EVS5-08BTK	8-pin plug Contact, waterproof blocking, blind blocking need to be ordered separately
		EVS5-08BZJ	8-pin receptacle, front mounting Contact, waterproof blocking, blind blocking need to be ordered separately
14pin		EVS5-14ATK	14-pin plug Contact, waterproof blocking, blind blocking need to be ordered separately
		EVS5-14AZJ-01	Modification of 14-pin receptacle, PCB, back mounting
		EVS5-14AZJ-Y	Modification of 14-pin receptacle, wiring, back mounting Contact, waterproof blocking, blind blocking need to be ordered separately

No. of pins	Appearance	Model list	Product description
20pin		EVS5-20BTK	20-pin plug Contact, waterproof blocking, blind blocking need to be ordered separately
		EVS5-20BZJ	20-pin receptacle, back mounting Contact, waterproof blocking, blind blocking need to be ordered separately
23pin		EVS5-23BTK EVS5-23BTK-01	23-pin plug Contact, waterproof blocking, blind blocking need to be ordered separately
		EVS5-23BZJ EVS5-23BZJ-B	23-pin receptacle, PCB, back mounting
24pin		EVS5-24BTK-01	24-pin plug Contact, waterproof blocking, blind blocking need to be ordered separately
		EVS5-24BZJ-B	24-pin receptacle, PCB, back mounting

No. of pins	Appearance	Model list	Product description
32pin		EVS5-32BTK	32-pin plug Contact, waterproof blocking, blind blocking need to be ordered separately
		EVS5-32BZJ	32-pin receptacle, back mounting Contact, waterproof blocking, blind blocking need to be ordered separately
		EVS5-32BZJ-B	32-pin receptacle, PCB, back mounting
32pin		EVS5-32BTKA	32-pin plug Contact, waterproof blocking, blind blocking need to be ordered separately
		EVS5-32BZJA	32-pin receptacle, back mounting Contact, waterproof blocking, blind blocking need to be ordered separately

EVS6 series

Introduction

- Comply with JONHON standard Q / 21EJ6284.
- Plastic housing, direct push-pull locking or handle locking, error proof of keyings, TPA, single-socket sealed and water proof.
- Adapted with 0.35 mm² ~ 0.75 mm² wires.



Application

Used for signal transmission between battery pack, PDU, motor controller and other internal equipment of electric vehicles.

Main technical performance

Rated current: 9A (max)

Rated voltage: 24V DC

Working temp: -40°C ~ 125°C

IP degree: IP68, IP6K9K

Ordering information

Series name	EVS6	-	20	A	T	K	-1
Separator	-						
No. of contacts	12, 20						
Insert arrangement	A						
Plug/receptacle type	T: plug	Z: receptacle					
Contact type	K: socket	J: pin					
Keying	-1, -2.....						

Example

EVS6-20AZJ-1: 20-pin receptacle, -1 keying and A-type insert arrangement.

Recommended models

No. of pins	Appearance	Model list	Product description
12pin		EVS6-12ATK-1	12-pin plug Contact, waterproof blocking, blind blocking need to be ordered separately

No. of pins	Appearance	Model list	Product description
12pin		EVS6-12AZJ-1	12-pin receptacle Contact, waterproof blocking, blind blocking need to be ordered separately
20pin		EVS6-20ATK-1	20-pin plug Contact, waterproof blocking, blind blocking need to be ordered separately
		EVS6-20AZJ-1	20-pin receptacle Contact, waterproof blocking, blind blocking need to be ordered separately

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High Voltage Low Current Connector C105 series

Introduction

- Comply with JONHON standard Q / 21EJ1032.
- Metal housing, direct push-pull locking, five keying error proof (N, W, X, Y, Z), adapted with 1.5 mm², 2.5 mm², 4 mm² and 6 mm² cables.



Application

Used for high voltage connection between OBC, battery pack, PDU, MCU, air conditioner, PTC, HV equipment, etc.

Main technical performance

Rated current: 1.5 mm² - 13A, 2.5 mm² - 20A, 4 mm² - 32A, 6 mm² - 40A

Rated voltage: 600V AC

Working temp: -40°C ~ 125°C

IP degree: IP67, IPXXB

Ordering information

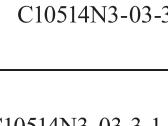
Series name	C105	L	18	N	1	-04	-1	-2	0	G001
Interlock				Default: non interlock L: interlock						
Housing No.			14, 16, 18.....							
Keying				N, W, X, Y, Z						
Plating material				1: nickel plated 2: satin nickel 3: zinc-nickel alloys 40: stainless steel passivation						
Insert arrangement			-01, -02, -03, -04.....							
Plug/ receptacle type				-1: plug -3: flange receptacle -4: nut fastening receptacle -6: disc receptacle						
Sealing				Default: unsealed M: sealed						
Contact type			-1: pin -2: socket							
Contact ordered Separately			0: need separately order Default: no need							
Modification			G001, G002.....							

Example

C10514N1-02-1-2 G020: C105 series, housing 14, nickel-plated, 2-pin plug, modification number G020.

Recommended models

No. of pins	Appearance	Model list	Product description
2-pin plug		C10514N3-02-1-20 G006	Adapted with 2.5 ~ 4 mm ² cable, separately ordered contact, single-core cable sealed
		C10514N3-02-1-20 G007	Adapted with 2.5 ~ 4 mm ² cable, separately ordered contact, single-core cable sealed
		C10514N3-02-1-20 G002	Adapted with 2.5 ~ 4 mm ² cable, separately ordered contact, multi-core cable sealed, internal shielding
		C10514N3-02-1-20 G003	90° plug, adapted with 2.5 ~ 4 mm ² cable, separately ordered contact, multi-core cable sealed, internal shielding
		C10516N3-02-1-20	Adapted with 10 mm ² cable, multi-core cable sealed, separately ordered contact, internal shielding
		C10516N3-02-1-20 G001	Adapted with 10 mm ² cable, multi-core cable sealed, separately ordered contact, internal shielding
2-pin receptacle		C10514N3-02-3-10	Adapted with 2.5 ~ 6 mm ² cable, without tail accessories, separately ordered contact
		C10514N3-02-3-10 G001	Adapted with 2.5 ~ 4 mm ² cable, multi-core cable sealed, separately ordered contact
		C10514N3-02-3-10 G002	Adapted with 2.5 ~ 6 mm ² cable, single-core cable sealed, separately ordered contact
		C10514N3-02-3-10 G003	Adapted with 2.5 ~ 4 mm ² cable, single-core cable sealed, separately ordered contact

No. of pins	Appearance	Model list	Product description
2-pin receptacle		C10514N3-02-6-10	Disc receptacle, adapted with 2.5 ~ 4 mm ² cable, multi-core cable sealed, internal shielding, separately ordered contact
		C10514N3-02-3M-10	Single-receptacle sealed, adapted with 1 ~ 6 mm ² cable, without tail accessories, separately ordered contact
		C10516N3-02-3-10	Adapted with 10 mm ² cable, without tail accessories, separately ordered contact
3-pin plug		C10514N3-03-1-20 G002	Adapted with 2.5 mm ² cable, separately ordered contact, multi-core cable sealed, internal shielding
		C10514N3-03-1-20 G003	90° plug, adapted with 2.5 mm ² cable, multi-core cable sealed, internal shielding, separately ordered contact
3-pin receptacle		C10514N3-03-3-1	Adapted with 2.5 mm ² cable, without tail accessories
		C10514N3-03-3-1 G001	Adapted with 2.5 mm ² cable, without tail accessories
		C10514N3-03-6-10	Disc receptacle, adapted with 2.5 mm ² cable, multi-core cable sealed, internal shielding, separately ordered contact

No. of pins	Appearance	Model list	Product description
4-pin plug		C10514N1-04-1-2 G001	2-pin and interlock, adapted with $2 \times 4 \text{ mm}^2 + 2 \times 0.5 \text{ mm}^2$ cable, single-core cable sealed
		C10514N1-04-1-2 G005	90° plug, 2-pin and interlock, adapted with $2 \times 4 \text{ mm}^2 + 2 \times 0.5 \text{ mm}^2$ cable, multi-core cable sealed, internal shielding
		C10518N1-04-1-2	Adapted with $4 \times 2.5 \text{ mm}^2$ cable, single-core cable sealed
		C10518N1-04-1-2 G001	Adapted with $4 \times 4 \text{ mm}^2$ cable, single-core cable sealed
		C10518N1-04-1-2 G002	Adapted with $4 \times 6 \text{ mm}^2$ cable, single-core cable sealed
		C105L18N1-04-1-2	4-pin and interlock, adapted with $4 \times 2.5 \text{ mm}^2 + 2 \times 0.5 \text{ mm}^2$ cable, single-core cable sealed
		C105L18N1-04-1-2 G001	4-pin and interlock, adapted with $4 \times 4 \text{ mm}^2 + 2 \times 0.5 \text{ mm}^2$ cable, single-core cable sealed
4-pin receptacle		C10514N1-04-3-1 G001	2-pin and interlock, adapted with $2 \times 4 \text{ mm}^2 + 2 \times 0.5 \text{ mm}^2$ cable, single-core cable sealed
		C10514N1-04-4-1	Nut fastening receptacle, adapted with $2 \times 4 \text{ mm}^2 + 2 \times 0.5 \text{ mm}^2$ cable, without tail accessories
		C10518N1-04-3-1	Adapted with $4 \times 2.5 \text{ mm}^2$ cable, without tail accessories
		C10518N1-04-3-1 G001	Adapted with $4 \times (4 \sim 6) \text{ mm}^2$ cable, without tail accessories
		C105L18N1-04-3-1	4-pin and interlock, adapted with $4 \times 2.5 \text{ mm}^2 + 2 \times 0.5 \text{ mm}^2$ cable, without tail accessories
		C105L18N1-04-3-1 G001	4-pin and interlock, adapted with $4 \times 4 \text{ mm}^2 + 2 \times 0.5 \text{ mm}^2$ cable, without tail accessories

No. of pins	Appearance	Model list	Product description
4-pin receptacle		C105L18N1-04-3-1 G002	4-pin and interlock, adapted with $4 \times 2.5 \text{ mm}^2 + 2 \times 0.5 \text{ mm}^2$ cable, with tail accessories, single-core cable sealed
		C105L18N1-04-3-1 G003	4-pin and interlock, adapted with $4 \times 4 \text{ mm}^2 + 2 \times 0.5 \text{ mm}^2$ cable, with tail accessories, single-core cable sealed
7-pin plug		C10516N1-07-1-2	Adapted with $3 \times 4 \text{ mm}^2 + 4 \times 0.5 \text{ mm}^2$ cable, single-core cable sealed
7-pin receptacle		C10516N1-07-3-1	Adapted with $3 \times 4 \text{ mm}^2 + 4 \times 0.5 \text{ mm}^2$ cable, without tail accessories
8-pin plug		C10516N1-08-1-2	Adapted with $4 \times 4 \text{ mm}^2 + 4 \times 0.5 \text{ mm}^2$ cable, only adapted with C10516N1-08-3-1 receptacle, single-core cable sealed
		C10516N1-08-1-2 G001	Adapted with $4 \times 2.5 \text{ mm}^2 + 4 \times (1 \sim 1.5) \text{ mm}^2$ cable, only adapted with C10516N1-08-3-1 G001 receptacle, single-core cable sealed
8-pin receptacle		C10516N1-08-3-1	Adapted with $4 \times 4 \text{ mm}^2 + 4 \times 0.5 \text{ mm}^2$ cable, without tail accessories, only adapted with C10516N1-08-1-2 plug
		C10516N1-08-3-1 G001	Adapted with $4 \times 2.5 \text{ mm}^2 + 4 \times (1 \sim 1.5) \text{ mm}^2$ cable, without tail accessories, only adapted with C10516N1-08-3-1 G001 plug

EVH2 series

Introduction

- Comply with JONHON standard Q/21EJ4769.
- Vehicle high voltage interlock connector, plastic housing, direct push-pull quick locking, secondary unlocking, reliable connection and convenient operation, multiple keying error proof, high voltage interlock, shielding, water proof, etc.



Application

Used for high voltage connection between OBC, battery pack, PDU, MCU, air conditioner, PTC and other components; built-in short-circuit loop for control.

Main technical performance

Rated current: 20A, 32A, 40A

Rated voltage: 1000V AC/1000V DC

Working temp: -40°C ~ 125°C

IP degree: IP67, IPXXB, IP6K9K

Ordering information

Series name	EVH2	-	M	4	T	K	W	2	-	R	C	L	A	G001
Separator	-													
Housing No.	M, N													
No. of pins	2, 3, 4.....													
Plug/ receptacle type	T: plug	Z: receptacle												
Contact type	J: pin	K: socket												
Interlock	Default: with interlock	W: without interlock												
No. of contacts	Default: full load	2, 4.....												
Separator	-													
Cable cross-section	R: 2.5 mm ² shielded cable	S: 4 mm ² shielded cable												
	T: 6 mm ² shielded cable	R1: 2.5 mm ² unshielded cable												
	S1: 4 mm ² unshielded cable	T1: 6 mm ² unshielded cable												
	Default: order separately PN													
Sealing	Default: single-core cable sealed	C: multi-core cable sealed												
Type and mode	L: outlet of plug signal wire	D: short circuit of plug signal wire												
	U: free receptacle	Default: flange receptacle (with mounting error proof)												
	N: flange receptacle (without mounting error proof)													
Keying	A, B, C, D.....													
Modification	G001, G002													

Example

EVH2-M2TK-DA: EVH2 series, housing M, 2-pin plug, single-core cable sealed, signal short circuit, A keying.

Recommended models

Note: cable parts and adapted contacts need to be ordered separately. For details, please refer to the corresponding specifications.

No. of pins	Appearance	Model list	Product description
2-pin plug		EVH2-M2TK-DA	Adapted with single-core 2.5 ~ 4mm ² shielded cable, signal short circuit, A keying, plug
2-pin receptacle		EVH2-M2ZJ-A	Adapted with single-core 2.5 ~ 4 mm ² unshielded cable, with mounting error proof, A keying, receptacle
		EVH2-M2ZJ-NA	Adapted with single-core 2.5 ~ 4 mm ² unshielded cable, without mounting error proof, A keying, receptacle
2-pin free receptacle		EVH2-M2ZJ-UA	Adapted with single-core 2.5 ~ 4mm ² shielded cable, A keying, free receptacle
2-pin multi-core cable plug		EVH2-M2TK-CDA	Adapted with multi-core 2 × 2.5mm ² shielded cable, multi-core cable sealed, signal short circuit, A keying, plug
2-pin plug		EVH2-N2TK-DA	Adapted with single-core 4 ~ 6 mm ² shielded cable, signal short circuit, A keying, plug
2-pin receptacle		EVH2-N2ZJ-A	Adapted with single-core 4 ~ 6 mm ² unshielded cable, with mounting error proof, A keying, receptacle
		EVH2-N2ZJ-NA	Adapted with single-core 4 ~ 6 mm ² unshielded cable, without mounting error proof, A keying, receptacle

No. of pins	Appearance	Model list	Product description
4-pin plug		EVH2-M4TK-DA	Adapted with single-core 2.5 ~ 4 mm ² shielded cable, signal short circuit, A keying, plug
4-pin receptacle		EVH2-M4ZJ-A	Adapted with single-core 2.5 ~ 4 mm ² unshielded cable, with mounting error proof, A keying, receptacle
		EVH2-M4ZJ-NA	Adapted with single-core 2.5 ~ 4 mm ² unshielded cable, without mounting error proof, A keying, receptacle
4-pin plug		EVH2-N4TK-DA	Adapted with single-core 2.5 ~ 6 mm ² shielded cable, signal short circuit, A keying, plug
4-pin receptacle		EVH2-N4ZJ-A	Adapted with single-core 2.5 ~ 6 mm ² unshielded cable, with mounting error proof, A keying, receptacle
		EVH2-N4ZJ-NA	Adapted with single-core 2.5 ~ 6 mm ² unshielded cable, without mounting error proof, A keying, receptacle
6-pin plug		EVH2-N6TK-A	Adapted with single-core 2.5 ~ 6 mm ² shielded cable, signal short circuit, A keying, plug
6-pin receptacle		EVH2-N6ZJ-A	Adapted with single-core 2.5 ~ 6 mm ² unshielded cable, with mounting error proof, A keying, receptacle

EVH2C series

Introduction

- Comply with JONHON standard Q/21EJ4769.
- Vehicle high voltage interlock connector, receptacle type: 90° outlet and PCB soldering, plastic housing, direct push-pull quick locking, secondary unlocking, reliable connection and convenient operation, multiple keying error proof, high voltage interlock, shielding, water proof, etc.



Application

Used for high voltage connection between OBC, battery pack, PDU, MCU, air conditioner, PTC and other components; built-in short-circuit loop for control.

Main technical performance

Rated current: 20A, 32A, 40A

Rated voltage: 1000V AC / 1000V DC

Working temp: -40°C ~ 125°C

IP degree: IP68, IP6K9K, IPXXB

Ordering information

Series name	EVH2C (EVH2CB, EVH2CC)		-	M	4	T	K	W	2	-	R	C	D	B	W	A	-01
Separator	-																
Housing No.	M, N																
No. of pins	2, 3, 4.....																
Plug/ receptacle type	T: plug Z: receptacle																
Contact type	J: pin K: socket																
Interlock	Default: with interlock																
No. of contacts	Default: full load 2, 4.....																
Separator	-																
Cable cross-section	R: 2.5 mm ² shielded cable T: 6 mm ² shielded cable																
Sealing	Default: single-core cable sealed																
Type and mode	L: outlet of plug signal wire U: free receptacle N: flange receptacle (without mounting error proof)																
Terminal connection	Default: crimping																
Outlet angle	Default: 180°																
Keying	A, B, C, D.....																
Modification	-01, -02, -03.....																

Example

EVH2C-N4TK-DA: EVH2C series, housing N, 4-pin, single-core cable sealed, short circuit of signal socket, A keying plug.

Recommended models

Note: cable parts and adapted contacts need to be ordered separately. For details, please refer to the corresponding Specifications.

No. of pins	Appearance	Model list	Product description
2-pin plug		EVH2CB-M2TK-DA	Adapted with single-core 2.5 mm ² shielded cable, short circuit of signal socket, A keying, plug
2-pin receptacle		EVH2CB-M2ZJ-BA-01	With mounting error proof, PCB soldering at tail, A keying, receptacle
2-pin plug		EVH2CC-N2TK-DA	Adapted with single-core 2.5 ~ 6 mm ² shielded cable, short circuit of signal socket, A keying, plug
2-pin receptacle		EVH2CC-N2ZJ-BA-01	With mounting error proof, PCB soldering at tail, A keying, receptacle
4-pin plug		EVH2CC-N4TK-DA	Adapted with single-core 2.5 ~ 6 mm ² shielded cable, short circuit of signal socket, A keying, plug
4-pin receptacle		EVH2CC-N4ZJ-BA	With mounting error proof, PCB soldering at tail, A keying, receptacle
4-pin plug		EVH2C-N4TK-DA	Adapted with single-core 2.5 ~ 6 mm ² , short circuit of signal socket, A keying, plug
4-pin receptacle		EVH2C-N4ZJ-TWA	Adapted with single-core 2.5 ~ 6 mm ² unshielded cable, with mounting error proof, 90° outlet, A keying, receptacle

EVH2D3 series

Introduction

- Comply with JONHON standard Q/21EJ4769.
- Vehicle high voltage interlock connector, plastic housing, direct push-pull quick locking; secondary unlocking, reliable connection and convenient operation, multiple keying error proof, high voltage interlock, shielding, water proof, etc.
- The receptacle can be mounted on HVA280 mounted panel.



Application

Used for high voltage connection between OBC, battery pack, PDU, MCU, air conditioner, PTC and other components; built-in short-circuit loop for control.

Main technical performance

Rated current: 20A, 32A, 40A

Rated voltage: 1000V AC/1000V DC

Working temp: -40°C ~ 125°C

IP degree: IP67, IPXXB

Ordering information

Series name	EVH2D3	-	N	2	T	K	W	2	-	R	C	L	A	G001
Separator	-													
Housing No.	N													
No. of pins	2													
Plug/ receptacle type	T: plug	Z: receptacle												
Contact type	J: pin	K: socket												
Interlock	Default: with interlock	W: without interlock												
No. of contacts	Default: 2													
Separator	-													
Cable cross- section	Rb: 2.5 mm ² shielded cable Ra1: 3mm ² unshielded cable Ta: 5 mm ² shielded cable T1: 6mm ² unshielded cable	Ra: 3mm ² shielded cable S: 4 mm ² shielded cable T: 6 mm ² shielded cable Tb: 6mm ² LV216 shielded cable												
Sealing	Default: single-core cable sealed	C: multi-core cable sealed												
Type and mode	L: outlet of plug signal wire U: free receptacle N: flange receptacle (without mounting error proof)	D: short circuit of plug signal wire Default: flange receptacle (with mounting error proof) B: PCB soldering												
Keying	A, B, C, D, E													
Modification	G001.....	-01												

Example

EVH2D3-N2TK-TDA: EVH2D3 series, housing N, 2-pin plug, adapted with 6 mm² shielded cable, short circuit of signal pin, A keying.

EVH2D3-N2ZJ-TA: EVH2D3 series, housing N, 2-pin receptacle, adapted with 2.5 ~ 6 mm² unshielded cable, with mounting error proof, A keying.

Recommended models

No. of pins	Appearance	Model list	Product description
2-pin plug		EVH2D3-N2TK-TDA	Adapted with single-core 6 mm ² shielded cable, A keying, signal short circuit, plug Power terminals need to be ordered separately
		EVH2D3-N2TK-RaDA	Adapted with single-core 3 mm ² shielded cable, A keying, signal short circuit, plug Power terminals need to be ordered separately
2-pin receptacle		EVH2D3-N2ZJ-TA	Adapted with single-core 2.5 ~ 6 mm ² unshielded cable, A keying, with mounting error proof Power and signal terminals need to be ordered separately
		EVH2D3-N2ZJ-A	Copper busbar pin adapted with M4 bolt, A keying, with mounting error proof, receptacle Signal terminals need to be ordered separately
		EVH2D3-N2ZJ-BA	Adapted with PCB soldering, A keying, with mounting error proof, receptacle Signal terminals need to be ordered separately

Note: order specification for finished products 043-00177677; order specification for spare parts 043-00215964.

EVZ4 series

Introduction

- Comply with JONHON standard Q/21EJ9564.
- Vehicle high voltage interlock connector, receptacle type: 90° outlet type, plastic housing, direct push-pull quick locking, secondary unlocking, reliable connection and convenient operation, multiple keying error proof, high voltage interlock, shielding, water proof, etc.



Application

Used for high voltage connection between OBC, battery pack, PDU, MCU, air conditioner, PTC and other components; built-in short-circuit loop for control.

Main technical performance

Rated current: 20A, 32A, 40A

Rated voltage: 1000V AC/1000V DC

Working temp: -40°C ~ 125°C

IP degree: IP67, IPXXB

Ordering information

Series name	EVZ4	-	2	T	K	-	6	W	A
Separator	-								
No. of pins	2, 4								
Plug/receptacle type	T: plug Z: receptacle								
Contact type	K: socket J: pin								
Separator	-								
Adapted cable	shielded cable for plug, marking number or letter; 4: 4mm ² (LV216) 6: 6mm ² (LV216) Rb: 2.5mm ² (LV216) unshielded cable for receptacle, marking number;								
Plug/receptacle type	Default: straight plug W: 90° receptacle								
Keying	A, B, C, D								

Example

EVZ4-2TK-6A: EVZ4 series, 2-pin plug, adapted with 6mm² shielded cable, short circuit of plug signal socket, A keying.

Recommended models

Note: cable parts and adapted contacts need to be ordered separately. For details, please refer to the corresponding specifications.

No. of pins	Appearance	Model list	Product description
2-pin plug		EVZ4-2TK-A	Adapted with single-core 2.5 ~ 6mm ² shielded cable, short circuit of signal socket, A keying, plug
4-pin plug		EVZ4-4TK-A	Adapted with single-core 2.5 ~ 6mm ² shielded cable, short circuit of signal socket, A keying, plug
2-pin receptacle		EVZ4-2ZJ-6WA	Adapted with single-core 2.5 ~ 6mm ² unshielded cable, with mounting error proof, 90° outlet, A keying, receptacle
4-pin receptacle		EVZ4-4ZJ-6WA	Adapted with single-core 2.5 ~ 6mm ² unshielded cable, with mounting error proof, 90° outlet, A keying, receptacle

High Voltage High Current Connector

GYHE series



Introduction

- Comply with GJB1217, QC/T 413, etc.
- Plastic housing, snap-in direct push-pull locking, secondary unlocking, three kinds of keying error proof, adapted with 10 mm² and 16 mm² unshielded cable.

Application

Used for high voltage connection between OBC, air conditioner, PTC and other components.

Main technical performance

Rated current: 80A

Rated voltage: 1000V AC

Working temp: -40°C ~ 125°C

IP degree: IP67

Ordering information

Series name	GYHE	-	2	-	80	T	-	A
Separator	-							
No. of pins	2							
Separator	-							
Rated current	80							
Plug/ receptacle type	T: plug	Z: receptacle						
Separator	-							
Keying	A, B, C							

Example

GYHE-2-80T-A: GYHE series, 2-pin 80A plug, A keying.

Recommended models

No. of pins	Appearance	Model list	Product description
2-pin		GYHE-2-80T-A	A keying plug
		GYHE-2-80Z-A	A keying receptacle

JONHON

GYHF series

Introduction

- Comply with GB/T 5095, QC/T 413.
- Vehicle high voltage interlock connector, plug: plastic housing, receptacle: metal housing, handle locking, multiple keying error proof, high voltage interlock, shielding, water proof, etc., adapted with 25 mm², 35 mm², 50 mm² and 70 mm² cables.



Application

Used for strong current connection between MCU, PDU, battery pack and other equipment.

Main technical performance

Rated current: 130A, 200A, 250A

Rated voltage: 1000V DC

Working temp: -40°C ~ 125°C

IP degree: IP67, IPXXB

Plug ordering information

Series name	GYHF	-	2	-	130	T	-	A	-G	-01
Separator	-									
No. of pins	2									
Separator										
Rated current	130, 200, 250									
Plug/ receptacle type	T: plug									
Separator	-									
Keying	A, B, C, D									
Hollow housing identification	-G									
Modification code	-01									

Receptacle ordering information

Series name	GYHF	-	2	-	200	Z	-	P	A	-	G001
Separator	-										
No. of pins	2										
Separator	-										
Rated current	130, 200, 250										
Plug/ receptacle type	Z: receptacle										
Separator	-										
Error proof	P: with mounting error proof Default: without mounting error proof										
Keying	A, B, C, D										
Separator	blank space										
Modification code	G001										

Example

GYHF-2-130T-A-G-02: GYHF series, 2-pin plug, hollow housing, A keying.

GYHF-2-130Z-A G002: GYHF series, 2-pin receptacle, A keying.

Note: contacts, grommets, shielding rings, tail covers and other components need to be ordered separately if the plug is a hollow housing part; there is no need to order parts separately if the receptacle is an integral part.

Recommended models

No. of pins	Appearance	Model list	Product description
2-pin		GYHF-2-130T-A-G-02	Adapted with 25 mm ² shielded cable, touch proof, A / B / C / D keying plug Cable accessories need to be ordered separately
		GYHF-2-130T-B-G-02	
		GYHF-2-130T-C-G-02	
		GYHF-2-130T-D-G-02	
		GYHF-2-130Z-A G002	Copper busbar, touch proof, single-receptacle sealed, A / B / C / D keying receptacle
		GYHF-2-130Z-B G002	
		GYHF-2-130Z-C G002	
		GYHF-2-130Z-D G002	

No. of pins	Appearance	Model list	Product description
2-pin		GYHF-2-200T-A-G	Adapted with 50 mm ² , 35mm ² shielded cable, touch proof, A / B / C / D keying plug Cable accessories need to be ordered separately
		GYHF-2-200T-B-G	
		GYHF-2-200T-C-G	
		GYHF-2-200T-D-G	
		GYHF-2-200Z-A G013	Copper busbar, touch proof, single-receptacle sealed, A / B / C / D keying receptacle
		GYHF-2-200Z-B G013	
		GYHF-2-200Z-C G013	
		GYHF-2-200Z-D G013	
2-pin		GYHF-2-250T-A-G	Adapted with 70mm ² , 50mm ² shielded cable, touch proof, A / B / C / D keying plug Cable accessories need to be ordered separately
		GYHF-2-250T-B-G	
		GYHF-2-250T-C-G	
		GYHF-2-250T-D-G	
		GYHF-2-250Z-A G009	Copper busbar, touch proof, single-receptacle sealed, A / B / C / D keying receptacle
		GYHF-2-250Z-B G009	
		GYHF-2-250Z-C G009	
		GYHF-2-250Z-D G009	

EVH1 series

Introduction

- Comply with QC/T413.
- Plastic housing, handle locking, multiple keying error proof, high voltage interlock, shielding, water proof, etc.



Application

Used for strong current connection between MCU, PDU, battery pack and other equipment.

Main technical performance

Rated current: housing C - 130A, housing F - 150A / 200A, housing H - 250A, interlock signal - 5A

Rated voltage: 1000V DC

Working temp: -40°C ~ 125°C

IP degree: IP68, IPXXB

Ordering information

Series name	EVH1	-	F	1	T	K	-	35	W	A	G001
Separator	-										
Housing No.	C, F, H										
No. of pins	1										
Plug/receptacle type	T: plug	Z: receptacle									
Contact type	J: pin	K: socket									
Separator	-										
Cable cross- section	25, 35, 50, 70										
Outlet angle	Default: straight type										
Keying	A, B, C, D										
Modification	G001, G002.....										

Example

EVH1-C1TJ-A: EVH1 series, 1-pin, housing C, A keying straight plug.

Recommended models

No. of pins	Appearance	Model list	Product description
1-pin		EVH1-C1TK-WA	Adapted with single-core 25 mm ² shielded cable, A keying, 90° plug Cable accessories need to be ordered separately
		EVH1-F1TK-WA	Adapted with single-core 35 / 50mm ² shielded cable, A keying, 90° plug Cable accessories need to be ordered separately
		EVH1-H1TK-WA	Adapted with single-core 70mm ² shielded cable, A keying, 90° plug Cable accessories need to be ordered separately
		EVH1-C1ZJ-WA	A keying, without mounting error proof, 90° receptacle
		EVH1-F1ZJ-WA	A keying, without mounting error proof, 90° receptacle
		EVH1-H1ZJ-WA	A keying, without mounting error proof, 90° receptacle
		EVH1-C1TJ-A	Adapted with single-core 25 mm ² shielded cable, A keying, straight plug Cable accessories need to be ordered separately
		EVH1-F1TJ-A	Adapted with single-core 35 mm ² shielded cable, A keying, straight plug Cable accessories need to be ordered separately
		EVH1-H1TJ-A	Adapted with single-core 70 mm ² shielded cable, A keying, straight plug Cable accessories need to be ordered separately
		EVH1-C1ZK-A	A keying, without mounting error proof, straight receptacle
		EVH1-F1ZK-A	A keying, with mounting error proof, straight receptacle
		EVH1-H1ZK-A	A keying, without mounting error proof, straight receptacle

EVH3 series

Introduction

- Comply with GB/T5095, GB/T4208 and USCAR2.
- Plug: plastic housing, receptacle: metal housing, direct push-pull quick locking, secondary unlocking, reliable connection and convenient operation, straight-type outlet, adapted with 10mm², 16mm² cables, four keying error proof, high voltage interlock, shielding, single-receptacle sealed, etc.



Application

Used for electrical connection between OBC, battery pack, PDU, air conditioner, PTC and other components.

Main technical performance

Rated current: 80A

Rated voltage: 1000V AC

Working temp: -40°C ~ 125°C

IP degree: IP67, IPX7 (receptacle), IPXXB

Ordering information

Series name	EVH3	-	P	2	T	J	-	16	A
Separator	-								
Housing No.	P								
No. of pins	2								
Plug/ receptacle type	T: plug	Z: receptacle							
Contact type	J: pin	K: socket							
Separator	-								
Cable cross- section	16, 10								
Keying	A, B, C, D								

Example

EVH3-P2TJ-16A: EVH3 series, housing P, 2-pin, adapted with 16 mm² shielded cable, A keying plug.

Recommended models

No. of pins	Appearance	Model list	Product description
2-pin		EVH3-P2TJ-16A	Adapted with single-core 16 mm ² shielded cable, A keying, plug
		EVH3-P2TJ-16B	Adapted with single-core 16 mm ² shielded cable, B keying, plug
		EVH3-P2TJ-16C	Adapted with single-core 16 mm ² shielded cable, C keying, plug
		EVH3-P2TJ-16D	Adapted with single-core 16 mm ² shielded cable, D keying, plug
		EVH3-P2TJ-10A	Adapted with single-core 10 mm ² shielded cable, A keying, plug
		EVH3-P2TJ-10B	Adapted with single-core 10 mm ² shielded cable, B keying, plug
		EVH3-P2TJ-10C	Adapted with single-core 10 mm ² shielded cable, C keying, plug
		EVH3-P2TJ-10D	Adapted with single-core 10 mm ² shielded cable, D keying, plug
		EVH3-P2ZK-A	Threaded hole (adapted with M5 bolt), A keying, receptacle
		EVH3-P2ZK-B	Threaded hole (adapted with M5 bolt), B keying, receptacle
		EVH3-P2ZK-C	Threaded hole (adapted with M5 bolt), C keying, receptacle
		EVH3-P2ZK-D	Threaded hole (adapted with M5 bolt), D keying, receptacle

EVH4 series

Introduction

- Comply with QC/T413, USCAR.
- Plastic housing, handle locking. The straight plug and the 90° plug share the same receptacle. Multiple keying error proof, high voltage interlock, shielding, water proof, etc.



Application

Used for strong current connection between MCU, PDU, battery pack and other equipment.

Main technical performance

Rated current: 130 ~ 200A

Rated voltage: 1000V DC

Working temp: -40°C ~ 140°C

IP degree: IP68, IP6K9K, IPXXB

Ordering information

Series name	EVH4	-	C	2	T	K	-	W	A	G001
Separator	-									
Housing No.	C									
No. of pins	2, 3									
Plug/ receptacle type	T: plug	Z: receptacle								
Contact type	J: pin	K: socket								
Separator	-									
Outlet angle	Default: straight type		W: 90° type							
Keying	A, B, C, D									
Modification	G001, G002.....									

Note: the plug and the receptacle with the same series name, housing No., No. of pins and keying can be plugged into each other. For example, the plug EVH4-C2TK-WA and the receptacle EVH4-C2ZJ-HA can be plugged into each other.

Recommended models

No. of pins	Appearance	Model list	Product description
2-pin		EVH4-C2TK-WA	Adapted with single-core 25 mm ² , 35 mm ² , 50 mm ² shielded cable, A keying, 90° plug Cable accessories need to be ordered separately
		EVH4-C2TK-A	Adapted with single-core 25 mm ² , 35 mm ² , 50 mm ² shielded cable, A keying, straight plug Cable accessories need to be ordered separately
		EVH4-C2ZJ-HA	A keying, mounting error proof, threaded hole on copper busbar at tail, receptacle
		EVH4-C2ZJ-TA	A keying, mounting error proof, through hole on copper busbar at tail, receptacle
3-pin		EVH4-C3TK-WA	Adapted with single-core 25 mm ² , 35 mm ² , 50 mm ² shielded cable, A keying, 90° plug Cable accessories need to be ordered separately
		EVH4-C3TK-A	Adapted with single-core 25 mm ² , 35 mm ² , 50 mm ² shielded cable, A keying, straight plug Cable accessories need to be ordered separately
		EVH4-C3ZJ-HA	A keying, mounting error proof, threaded hole on copper busbar at tail, receptacle
		EVH4-C3ZJ-TA	A keying, mounting error proof, through hole on copper busbar at tail, receptacle

EVH6 series

Introduction

- Comply with JONHON standard Q/21EJ7428.
- Handle locking, reliable connection and convenient operation, multiple keying error proof, high voltage interlock, 360° shielding, water proof, etc. Plug terminal is ultrasonic welding, with the advantages of high welding strength, low termination resistance, etc., and can be adapted to copper wires and aluminum wires.



Application

Used for strong current connection among electrical equipment of electric vehicles.

Main technical performance

Rated current: 150 ~ 350A

Rated voltage: 1000V DC

Working temp: -40°C ~ 140°C

IP degree: IP68, IP6K9K, IPXXB

JONHON

Ordering information

Series name	EVH6/EVH6A	-	F	2	T	J	-	W	A	-01
Separator	-									
Housing No.	F J L									
No. of pins	2									
Plug/receptacle type	T: plug Z: receptacle									
Contact type	J: pin K: socket									
Separator	-									
Type and mode	Default: straight outlet of plug W: 90° outlet of plug H: receptacle copper busbar threaded hole T: receptacle copper busbar through hole									
Keying	A, B, C, D									
Modification	Default: basic type Modification: -01, -02.....									

Example

EVH6-F2TJ-WA: EVH6 series, housing F, 2-pin plug, contact is pin, 90° outlet, A keying.

Recommended models

No. of pins	Appearance	Model list	Product description
2-pin		EVH6-E2TK-WA	Adapted with single-core 16mm ² , 25mm ² cable, A keying, 90° plug Cable accessories need to be ordered separately
		EVH6-E2TK-A	Adapted with single-core 16mm ² , 25mm ² cable, A keying, 90° plug Cable accessories need to be ordered separately
		EVH6-E2ZJ-HA	A keying, mounting error proof, threaded hole on copper busbar at tail, modified receptacle
		EVH6-F2TJ-WA	Adapted with single-core 35 mm ² , 50mm ² cable, A keying, 90° plug Cable accessories need to be ordered separately
		EVH6-F2TJ-A	Adapted with single-core 35 mm ² , 50mm ² cable, A keying, straight plug Cable accessories need to be ordered separately
		EVH6-F2ZK-HA	A keying, mounting error proof, threaded hole on copper busbar at tail, receptacle
		EVH6-F2ZK-HA-01	A keying, mounting error proof, threaded hole on copper busbar at tail, modified receptacle

No. of pins	Appearance	Model list	Product description
2-pin		EVH6-F2ZK-HA-04	A keying, mounting error proof, threaded hole on copper busbar at tail, receptacle
		EVH6-J2TJ-A	Adapted with single-core 50 mm ² , 70mm ² cable, A keying, straight plug Cable accessories need to be ordered separately
		EVH6-J2TJ-WA	Adapted with single-core 50 mm ² , 70mm ² cable, A keying, 90° plug Cable accessories need to be ordered separately
		EVH6-J2ZK-HA	A keying, mounting error proof, threaded hole on copper busbar at tail, receptacle
		EVH6-J2ZK-HA-03	A keying, mounting error proof, threaded hole on copper busbar at tail, receptacle
		EVH6-L2TJ-WA	Adapted with single-core 50 mm ² , 70 mm ² , 95 mm ² cable, A keying, 90° plug Cable accessories need to be ordered separately
		EVH6-L2TJ-A	Adapted with single-core 50 mm ² , 70 mm ² , 95 mm ² cable, A keying, straight plug Cable accessories need to be ordered separately
		EVH6-L2ZK-HA-06	A keying, mounting error proof, threaded hole on copper busbar at tail, receptacle

No. of pins	Appearance	Model list	Product description
2-pin		EVH6-L2ZK-HA-08	A keying, mounting error proof, threaded hole on copper busbar at tail, receptacle
		EVH6-L2ZK-HA-10	A keying, mounting error proof, threaded hole on copper busbar at tail, receptacle
		EVH6-L2ZK-HA-12	A keying, mounting error proof, threaded hole on copper busbar at tail, receptacle
		EVH6A-L2TJ-WA	Adapted with single-core 50 mm ² , 70 mm ² , 95 mm ² cable, A keying, 90°plug Cable accessories need to be ordered separately
		EVH6A-L2ZK-HA	A keying, mounting error proof, threaded hole on copper busbar at tail, receptacle
		EVH6A-L2ZK-HA-01	A keying, mounting error proof, threaded hole on copper busbar at tail, receptacle
		EVH6A-L2ZK-HA-02	A keying, mounting error proof, threaded hole on copper busbar at tail, receptacle

EP1 series

Introduction

- Comply with GB/T 5095, QC/T 413 and GB/T 4208.
- Metal housing, direct push-pull quick locking. Outlet type: straight outlet and 90° outlet. Five kinds of keying and color, double error proof, shielding, water proof, touch proof, etc.



Application

Used for high voltage connection between OBC, battery pack, PDU, MCU, air conditioner, PTC and other components.

Main technical performance

Rated current: 80A, 120A, 150A, 200A, 300A

Rated voltage: 1000V AC

Working temp: -40°C ~ 125°C

IP degree: IP67, IPXXB

Ordering information

Series name	EP1	-	1	10	T	1	J	90	(RE)	-	P	W	-01	
Separator	-													
No. of pins	1													
Contact gauge	8,10,12													
Plug/receptacle type	T: plug	Z: receptacle												
Housing coating	Default: aluminium alloy with nickel plating 1: aluminium alloy with zinc-nickel plating													
Contact type	J: pin	K: socket												
Angle of keyings	90, 135, 180, 225, 270													
Color of ribbon	(RE), (BL), (BK), (GR), (YE)													
Separator	-													
Shielding	Default: unshielded		P: shielded											
Outlet angle	Default: straight type		W: 90° type											
Modification	Default: basic type 01, 02.....													

Note: 1. The plug and the receptacle with the same series name, No. of pins, contact gauge and keying can be plugged into each other.

2. The “90” in the model is the keying. This product has five key positions, each of which corresponds to a color. The key positions are 90, 135, 180, 225, and 270, and the corresponding colors are red, blue, black, green, and yellow. The corresponding contents in the model are “RE”, “BL”, “BK”, “GR”, “YE” respectively.
3. “H8” and “H6” in receptacle model respectively mean M8 threaded hole on copper busbar at tail and M6 threaded hole on copper busbar at tail.

Example

EP1-112T1J90(RE)-P: EP1 series, 1-pin, contact diameter is Ø12, adapted with single-core shielded cable, 90 keying, straight plug.

Recommended models

No. of pins	Appearance	Model list	Product description
1-pin		EP1-112T1J90(RE)-P	Adapted with 70mm ² shielded cable, straight plug Cable accessories need to be ordered separately
		EP1-112T1J135(BL)-P	
		EP1-112T1J180(BK)-P	
		EP1-112T1J225(GR)-P	
		EP1-112T1J270(YE)-P	
		EP1-112T1J90(RE)-PW	Adapted with 70mm ² shielded cable, 90° plug Cable accessories need to be ordered separately
		EP1-112T1J135(BL)-PW	
		EP1-112T1J180(BK)-PW	
		EP1-112T1J225(GR)-PW	
		EP1-112T1J270(YE)-PW	
		EP1-112Z1K90(RE)-H8	Copper busbar, M8 hole, 90 keying, receptacle
		EP1-112Z1K135(BL)-H8	Copper busbar, M8 hole, 135 keying, receptacle
		EP1-112Z1K180(BK)-H8	Copper busbar, M8 hole, 180 keying, receptacle
		EP1-112Z1K225(GR)-H8	Copper busbar, M8 hole, 225 keying, receptacle
		EP1-112Z1K270(YE)-H8	Copper busbar, M8 hole, 270 keying, receptacle
		EP1-110T1J90(RE)-P	Adapted with 50mm ² shielded cable, straight plug Cable accessories need to be ordered separately
		EP1-110T1J135(BL)-P	
		EP1-110T1J180(BK)-P	
		EP1-110T1J225(GR)-P	
		EP1-110T1J270(YE)-P	
		EP1-110T1J90(RE)-PW	Adapted with 50mm ² shielded cable, 90° plug Cable accessories need to be ordered separately
		EP1-110T1J135(BL)-PW	
		EP1-110T1J180(BK)-PW	
		EP1-110T1J225(GR)-PW	
		EP1-110T1J270(YE)-PW	
		EP1-110Z1K90(RE)-H8	Copper busbar, M8 hole, 90 keying, receptacle
		EP1-110Z1K135(BL)-H8	Copper busbar, M8 hole, 135 keying, receptacle
		EP1-110Z1K180(BK)-H8	Copper busbar, M8 hole, 180 keying, receptacle
		EP1-110Z1K225(GR)-H8	Copper busbar, M8 hole, 225 keying, receptacle
		EP1-110Z1K270(YE)-H8	Copper busbar, M8 hole, 270 keying, receptacle
		EP1-18T1J90(RE)-P	Adapted with 35 mm ² , 25 mm ² shielded cable, straight plug Cable accessories need to be ordered separately
		EP1-18T1J135(BL)-P	
		EP1-18T1J180(BK)-P	
		EP1-18T1J225(GR)-P	
		EP1-18T1J270(YE)-P	

No. of pins	Appearance	Model list	Product description
1-pin		EP1-18T1J90(RE)-PW	Adapted with 35mm ² , 25mm ² shielded cable, 90° plug Cable accessories need to be ordered separately
		EP1-18T1J135(BL)-PW	
		EP1-18T1J180(BK)-PW	
		EP1-18T1J225(GR)-PW	
		EP1-18T1J270(YE)-PW	
		EP1-18Z1K90(RE)-H6	Copper busbar, M6 hole, 90 keying, receptacle
		EP1-18Z1K135(BL)-H6	Copper busbar, M6 hole, 135 keying, receptacle
		EP1-18Z1K180(BK)-H6	Copper busbar, M6 hole, 180 keying, receptacle
		EP1-18Z1K225(GR)-H6	Copper busbar, M6 hole, 225 keying, receptacle
		EP1-18Z1K270(YE)-H6	Copper busbar, M6 hole, 270 keying, receptacle

JONHON

EPL1 series

Introduction

- Comply with GB/T 4208, GB/T 2423 and QC/T 413.
- Push-pull locking structure with snap ring, easy operation and reliable connection, straight outlet, interlock, five keyings and color error proof, touch proof, etc.



Application

Used for strong current connection of high voltage MCU, PDU and battery pack of electric vehicles.

Main technical performance

Rated current: 150A, 200A

Rated voltage: 1000V

Working temp: -40°C ~ 125°C

IP degree: IP67, IPXXB

Ordering information

Series name	EPL1	-	1	10	T	K	N	-	50	P
Separator	-									
No. of pins	1									
Contact gauge	10									
Plug/receptacle type	T: plug	Z: receptacle								
Contact type	J: pin	K: socket								
Keying	N, X, W, Y, Z									
Separator	-									
Cable cross- section	35, 50									
Shielding	Default: unshielded									
										P: shielded

Example

EPL1-110TKN-50P: EPL1 series, 1-pin, Ø10 socket, adapted with 50mm² shielded cable, N keying plug.

Recommended models

No. of pins	Appearance	Model list	Product description
1-pin		EPL1-110TKN-50P	Adapted with single-core 50mm ² shielded cable, N keying, plug
		EPL1-110TKX-50P	Adapted with single-core 50mm ² shielded cable, X keying, plug
		EPL1-110TKW-50P	Adapted with single-core 50mm ² shielded cable, W keying, plug
		EPL1-110TKY-50P	Adapted with single-core 50mm ² shielded cable, Y keying, plug
		EPL1-110TKZ-50P	Adapted with single-core 50mm ² shielded cable, Z keying, plug
		EPL1-110TKN-35P	Adapted with single-core 35mm ² shielded cable, N keying, plug
		EPL1-110TKX-35P	Adapted with single-core 35mm ² shielded cable, X keying, plug
		EPL1-110TKW-35P	Adapted with single-core 35mm ² shielded cable, W keying, plug
		EPL1-110TKY-35P	Adapted with single-core 35mm ² shielded cable, Y keying, plug
		EPL1-110TKZ-35P	Adapted with single-core 35mm ² shielded cable, Z keying, plug
		EPL1-110ZJN-H8	threaded hole on copper busbar at tail, N keying, receptacle
		EPL1-110ZJX-H8	threaded hole on copper busbar at tail, X keying, receptacle
		EPL1-110ZJW-H8	threaded hole on copper busbar at tail, W keying, receptacle
		EPL1-110ZJY-H8	threaded hole on copper busbar at tail, Y keying, receptacle
		EPL1-110ZJZ-H8	threaded hole on copper busbar at tail, Z keying, receptacle

EPL2 series

Introduction

- Comply with Q/21EJ4126, USCAR, QC/T1067, etc.
- Push-pull locking structure with snap ring, easy operation and reliable connection, interlock, keying and color error proof, muddy proofing, touch proof, etc.



Application

Used for strong current connection of high voltage MCU, PDU and battery pack of electric vehicles.

Main technical performance

Rated current: 200A

Rated voltage: 1000V

Working temp: -40°C ~ 125°C

IP degree: IP67, IPXXB

Ordering information

Series name	EPL2	-	1	10	T	K	N	-	50	P	-01	
Separator	-											
No. of pins	1											
Contact gauge	10											
Plug/receptacle type	T: plug	Z: receptacle										
Contact type	J: pin	K: socket										
Keying	N, W represent the angle of 30°, 50° respectively											
Separator	-											
Cable cross- section	Adapted cable cross-section 50mm ² : 50 Copper busbar gauge: H+number											
Shielding	Default: unshielded		P: shielded									
Outlet angle	Default: straight type			W: 90° type								
Modification	-01, -02...											

Example

EPL2-110TKN-50P: EPL2 series, 1-pin, Ø10 socket, adapted with 50mm² shielded cable, N keying, straight outlet plug.

Recommended models

No. of pins	Appearance	Model list	Product description
1-pin		EPL2-110TKN-50P	Adapted with single-core 50 mm ² shielded cable, N keying, plug
		EPL2-110TKW-50P	Adapted with single-core 50 mm ² shielded cable, W keying, plug
		EPL2-110TKN-50P-01	Adapted with single-core 50 mm ² shielded cable (LV216 standard silicone cable), N keying, plug
		EPL2-110TKW-50P-01	Adapted with single-core 50 mm ² shielded cable (LV216 standard silicone cable), W keying, plug
		EPL2A-110T1K30(RE)-P	Adapted with single-core 35 mm ² and 50 mm ² shielded cable(LV216 standard silicone cable), W keying, plug Cable accessories need to be ordered separately
		EPL2A-110T1K50(BK)-P	Adapted with single-core 35 mm ² and 50 mm ² shielded cable(LV216 standard silicone cable),W keying, plug Cable accessories need to be ordered separately
		EPL2-110TKN-50PW-01	Adapted with single-core 50 mm ² shielded cable (LV216 standard silicone cable), N keying, 90° plug

No. of pins	Appearance	Model list	Product description
		EPL2-110TKW-50PW-01	Adapted with single-core 50 mm ² shielded cable (LV216 standard silicone cable), W keying, 90° plug
	EPL2-110ZJN-50	Adapted with single-core 50 mm ² unshielded cable, N keying, receptacle	
	EPL2-110ZJW-50	Adapted with single-core 50 mm ² unshielded cable, W keying, receptacle	
	EPL2A-110Z1J30(RE)	Adapted with single-core 50 mm ² unshielded cable, N keying, receptacle Cable accessories need to be ordered separately	
	EPL2A-110Z1J50(BK)	Adapted with single-core 50 mm ² unshielded cable, W keying, receptacle Cable accessories need to be ordered separately	
	EPL2-110ZJN-H6	Copper busbar receptacle, M6 rivet nut, N keying	
	EPL2-110ZJW-H6	Copper busbar receptacle, M6 rivet nut, W keying	

MPCLB series

Introduction

- Comply with JONHON standard Q/21EJ8673.
- Vehicle high voltage interlock connector, metal housing, handle assist structure, secondary unlocking, reliable connection and convenient operation, multiple keying error proof, high voltage interlock, shielding, water proof, etc.



Application

Used for the electrical connection of MCU, PDU, battery pack and other equipment.

Main technical performance

Rated current: 310A(70mm²), 250A(50mm²)

Rated voltage: 1000V DC

Working temp: -40°C ~ 125°C

IP degree: IP68, IPXXB

Plug ordering information

Series name	MPCLB	-	2	M	S	A	-	1	-	C	50	P
Separator	-											
Housing coating		Default: passivation Z: zinc nickel										
No. of pins	2											
Plug type	M: plug											
Contact type	S: socket											
Housing keying	A											
Separator	-											
Plug outlet type	1: 90° leftward outlet 2: 90° rightward outlet											
Separator	-											
Cable connection mode	C: ultrasonic soldering											
Cable cross- section	50mm ² : 50 70mm ² : 70											
Shielding	Default: unshielded P: shielded											
Adapted cable standard (plug only)	Default: QC/T 1037 L: LV216											

Example

MPCLB-2MSA-2-C50PL: MPCLB series, housing passivation, 2-pin plug, 90° rightward outlet, ultrasonic soldering, 50mm² (LV216) silicone cable.

MPCLB-2MSA-1-C70PL: MPCLB series, housing passivation, 2-pin plug, 90° leftward outlet, ultrasonic soldering, 70mm² (LV216) silicone cable.

Receptacle ordering information

Series name	MPCLB	-	2	F	P	A	-	0	-	H	8	-01
Separator	-											
Housing coating	Default: passivation	Z: zinc-nickel										
No. of pins	2											
Plug type	F: socket											
Contact type	P: pin											
Housing keying	A											
Separator	-											
Pin length	0: short copper busbar	1: long copper busbar										
Separator	-											
Terminal connection	H: threaded connection											
Thread gauge	8: M8 thread											
Modification	Default: basic type -01, -02...											

Example

MPCLB-2FPA-1-H8: MPCLB series, housing passivation, 2-pin receptacle, A keying, long copper busbar, M8 nut.

MPCLB-2FPA-0-H8: MPCLB series, housing passivation, 2-pin receptacle, A keying, short copper busbar, M8 nut.

选型订货列表列表

No. of pins	Appearance	Model list	Product description
2-pin plug		MPCLB-2MSA-1-C70(50)PL	Adapted with 50mm ² , 70mm ² shielded cable, leftward outlet Cable accessories need to be ordered separately
		MPCLB-2MSA-2-C70(50)PL	Adapted with 50mm ² , 70mm ² shielded cable, rightward outlet Cable accessories need to be ordered separately

No. of pins	Appearance	Model list	Product description
2-pin receptacle		MPCLB-2FPA-1-H8	Long copper busbar receptacle
		MPCLB-2FPA-0-H8	Short copper busbar receptacle

Note: order specification for spare parts 043-00216037.

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MPCLC series

Introduction

- Comply with JONHON standard Q/21EJ12146.
- Plastic receptacle, metal plug, adapted with 50mm², 35mm², 25mm² and 16mm² shielded cables. A reserved interface for temperature monitoring is added to the receptacle.
- Compared with plug-in connector, this product has the advantages of simple structure, high vibration resistance, water proof and high strength.



Application

Used for high voltage connection between battery pack, PDU, HV equipment and other components.

Main technical performance

Rated current: 200A

Rated voltage: 1000V

Withstand voltage: 3000V AC

Working temp: -40°C ~ 140°C

IP degree: After mated IP68 (1m, 48h), IPXXB

Ordering information

Series name	MPCLC	-	2	M	P	A	-	200	0	-	C	50P	L	-	01
Separator	-														
No. of pins	2														
Plug/receptacle type	M: plug			F: receptacle											
Contact type	S: socket			P: pin											
Keying	A/B/C														
Separator	-														
Rated current carrying capacity of contact	200A														
outlet type	1: 90°type			0: straight type											
Separator	-														
Cable terminal connection	Plug C: ultrasonic soldering Receptacle														
Outlet type	H: copper busbar														
Cable standard	Plug: L: comply with LV216				Q: comply with QC/T 1037										
	Default: comply with ISO19642				Receptacle: default										
Separator	-														
Modification	Structural modification: G001, G002			Other modification: 01, 02											

Example

MPCLC-2MPA-2001-C50P: MPCLC series, housing passivation, 2-pin plug, A keying, 90° outlet, adapted with 50mm² shielded cable, see the specification for cable dimensions.

MPCLC-2FSA-2000-H8: MPCLC series, housing passivation, 2-pin receptacle, A keying, threaded connection, M8 nut.

Recommended models

Note: the following models are exemplified by “A” keying.

No. of pins	Appearance	Model list	Product description
2-pin		MPCLC-2MPA-2001-C50P MPCLC-2MPA-2001-C25P	50mm ² , A keying, 90° plug 25mm ² , A keying, 90° plug
		MPCLC-2FSA-2000-H8	Adapted with M8 bolt, A keying, receptacle

Note: the above models are ordered in parts, and the ordering models are shown in 043-00268788.

CT34C400 series

Introduction

- Comply with GJB 1217, GB/T 5095 and QC/T 413.
- Metal housing, direct push-pull quick locking, multiple keying error proof, high voltage interlock, shielding, water proof, etc., adapted with 95 mm² cables.



Application

Used for strong current connection of MCU, PDU, battery pack and other components.

Main technical performance

Rated current: 400A

Rated voltage: 1000V DC

Working temp: -40°C ~ 125°C

IP degree: IP67, IPXXB

Ordering information

Series name	CT34C400	-	1	T	1	K	90	(RE)	-	C95P	W
Separator	-										
No. of pins	1										
Plug/ receptacle type	T: plug	Z: receptacle									
Housing coating	Default: aluminum alloy with nickel plating										
	1: aluminium alloy with zinc-nickel plating										
Contact type	J: pin	K: socket									
Angle of keyings	90, 135, 180, 225, 270										
Color of connecting nut	Red (RE), blue (BL), black (BK), green (GR), yellow (YE)										
Separator	-										
Type and mode	C95P: plug	H10: receptacle									
Outlet angle	Default: straight plug/receptacle	W: 90° plug									

Example

CT34C400-1T1K90(RE)-C95P: CT34C400 series, 1-pin 400A straight plug connector, adapted with 95 mm² single-core shielded cable, 90 keying, housing with zinc-nickel plating.

Recommended models

No. of pins	Appearance	Model list	Product description
1-pin		CT34C400-1T1K90(RE)-C95P	Adapted with 95 mm ² shielded cable, 90 keying plug
		CT34C400-1T1K135(BL)-C95P	Adapted with 95 mm ² shielded cable, 135 keying plug
		CT34C400-1T1K180(BK)-C95P	Adapted with 95 mm ² shielded cable, 180 keying plug
		CT34C400-1T1K225(GR)-C95P	Adapted with 95 mm ² shielded cable, 225 keying plug
		CT34C400-1T1K270(YE)-C95P	Adapted with 95 mm ² shielded cable, 270 keying plug
		CT34C400-1T1K90(RE)-C95PW	Adapted with 95 mm ² shielded cable, 90 keying plug
		CT34C400-1T1K135(BL)-C95PW	Adapted with 95 mm ² shielded cable, 135 keying plug
		CT34C400-1T1K180(BK)-C95PW	Adapted with 95 mm ² shielded cable, 180 keying plug
		CT34C400-1T1K225(GR)-C95PW	Adapted with 95 mm ² shielded cable, 225 keying plug
		CT34C400-1T1K270(YE)-C95PW	Adapted with 95 mm ² shielded cable, 270 keying plug
		CT34C400-1Z1J90(RE)-H10	Copper busbar, 90 keying receptacle
		CT34C400-1Z1J135(BL)-H10	Copper busbar, 135 keying receptacle
		CT34C400-1Z1J180(BK)-H10	Copper busbar, 180 keying receptacle
		CT34C400-1Z1J225(GR)-H10	Copper busbar, 225 keying receptacle
		CT34C400-1Z1J270(YE)-H10	Copper busbar, 270 keying receptacle

Manual Service Disconnect (MSD)

DLQ4 series

Introduction

- Comply with JONHON standard Q/21EJ2656.
- Plastic housing, handle direct push-pull locking, high voltage interlock, water proof, single-receptacle sealed, no fuse, small size and light weight.



Application

Used for strong current connection of PDU, HV equipment, battery box and other equipment.

Main technical performance

Rated current: 300A

Rated voltage: 1000V DC

Working temp: -40°C ~ 125°C

IP degree: IP68, IPX8(single receptacle), IPXXB

Ordering information

Series name	DLQ4	-	T	G001
Separator	-			
Plug/ receptacle type	T: plug	Z: receptacle		
Modification	G001, G002.....			

Example

DLQ4-T: DLQ4 series plug.

Recommended models

Appearance	Model list	Product description
	DLQ4-T	MSD plug
	DLQ4-Z	MSD receptacle

Appearance	Model list	Product description
	DLQ4-Z-B	Back mounting MSD receptacle

JONHON

DLQ5 series

Introduction

- Comply with JONHON standard Q/21EJ2656.
- Plastic housing, handle direct push-pull locking, high voltage interlock, water proof, two-stage separation, mini type, small size and light weight.



Application

Used for strong current connection of PDU, HV equipment, battery box and other equipment.

Main technical performance

Rated current: 200A

Rated voltage: 690V AC/750V DC

Working temp: -40°C ~ 125°C

IP degree: IP68, IPXXB, IPXXD

Ordering information

Plug

Series name	DLQ5	-	T	200	G001
Separator	-				
Plug/ receptacle type	T: plug				
Fuse gauge	100A, 125A, 160A, 200A, 250A, 315A, 350A, 400A				
Separator					
Modification	Default: Bassmann fuse	G001: medium melting fuse			

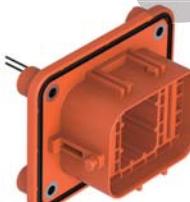
Receptacle

Series name	DLQ5	-	Z	-	X	(L=300)	-	01
Separator	-							
Plug/ receptacle type	Z: receptacle							
Separator	-							
Mounting type	X: mounting error proof							
Length of signal wire	Default: length is 220	(L=300): length is 300						
Separator	-							
Modification	01, 02.....							

Example

DLQ5-T200 G001: DLQ5 series 200A, 750V DC (medium melting) fuse plug.

Recommended models

Appearance	Model list	Product description
	DLQ5-T	No fuse
	DLQ5-T200	200A, 700V DC (Bassmann) fuse plug
	DLQ5-T250	250A, 700V DC (Bassmann) fuse plug
	DLQ5-T315	315A, 700V DC (Bassmann) fuse plug
	DLQ5-T350	350A, 600V DC (Bassmann) fuse plug
	DLQ5-T400	400A, 600V DC (Bassmann) fuse plug
	DLQ5-T200 G001	200A, 750V DC (medium melting) fuse plug
	DLQ5-T250 G001	250A, 750V DC (medium melting) fuse plug
	DLQ5-T315 G001	315A, 750V DC (medium melting) fuse plug
	DLQ5-T350 G001	315A, 750V DC (medium melting) fuse plug
	DLQ5-T400 G001	400A, 750V DC (medium melting) fuse plug
	DLQ5-Z	MSD receptacle
	DLQ5-Z-B	Back mounting MSD receptacle

DLQ11 series

Introduction

- Comply with JONHON standard Q/21EJ2656.
- Plastic housing, handle direct push-pull locking, high voltage interlock, water proof, single-receptacle sealed, strong flow capacity and low temperature rise.



Application

Used for strong current connection of PDU, HV equipment, battery box and other equipment.

Main technical performance

Rated current: 300A

Rated voltage: 750V DC

Working temp: -40°C ~ 125°C

IP degree: IP68, IPX8 (single receptacle), IPXXB, IP69K

Ordering information

Plug

Series name	DLQ11	-	T	630	G001
Separator	-				
Plug	T: plug				
Fuse gauge	400A, 630A				
Separator					
Modification	G001, G002.....				

Receptacle

Series name	DLQ11	-	Z	-	B	G001
Separator	-					
Receptacle	Z: receptacle					
Separator	-					
Mounting type	B: back mounting					
Separator						
Modification	G001, G002.....					

Example

DLQ11-T400 G001: DLQ11 series, no interlock, 400A fuse plug, modification G001.

Recommended models

Appearance	Model list	Product description
	DLQ11-T	No fuse, no interlock
	DLQ11-T400	400A fuse plug, no interlock
	DLQ11-T630	630A fuse plug, no interlock
	DLQ11-Z-B	MSD receptacle, no interlock
	DLQ11A-T400	400A fuse plug, interlock
	DLQ11A-T500	500A fuse plug, interlock
	DLQ11A-T630	630A fuse plug, interlock
	DLQ11A-Z-B	MSD receptacle, interlock

Pass-through Connector

JX56 series

Introduction

- Comply with JONHON standard Q/21EJ4686.
- 360° shielding, high IP degree, high salt spray resistance, harness anti-reversal and anti-rotation. It can be divided into 2-pin and 3-pin, adapted with 16 mm² ~ 70 mm² cables.



Application

Used for strong current outlet connection of distribution box, motor, MCU, PDU and other equipment.

Main technical performance

Rated current: depends on adaptive cable

Rated voltage: depends on adaptive cable

Working temp: -40°C ~ 125°C

IP degree: IP67

Ordering information

Series name	JX56		M	-2	-50	Default	Y	P	Default	Default
Housing material	Default: plastic	M: metal								
No. of contacts	-2, -3									
Cable cross-section	16mm ² , 25mm ² , 35mm ² , 50mm ²									
Outlet type	Default: straight outlet		W: 90° outlet							
Terminal connection	Y: crimping	L: threaded pressing	H: soldering							
Cable process	Default: unshielded		P: shielded							
Keying	Default: no keying		A, B, C, D: keying							
Modification	G001, G002, G003.....									

Example

JX56M-2-25YP G002: JX56 series, metal housing, 2-pin, 25 mm² connector, modification G002.

Recommended models

No. of pins	Appearance	Model list	Product description
2-pin		JX56M-2-16YP G002	2-pin 16 mm ² metal connector
		JX56M-2-25YP G002	2-pin 25 mm ² metal connector
		JX56M-2-35YP G004	2-pin 35 mm ² metal connector
		JX56M-2-50YP G002	2-pin 50 mm ² metal connector
		JX56M-2-50YP G003	2-pin 50 mm ² metal connector
3-pin		JX56M-3-16YP G002	3-pin 16 mm ² metal connector
		JX56M-3-25YP G002	3-pin 25 mm ² metal connector
		JX56M-3-35YP G004	3-pin 35 mm ² metal connector
		JX56M-3-50YP G002	3-pin 50 mm ² metal connector

JONHON

JX59 series

Introduction

- Comply with JONHON standard Q/21EJ4517.
- JX59 1-pin series adopt plastic housing, while JX59M 1-pin series adopt metal housing, and the top cover and base are fixed by screws. The products have the functions of shielding, water proof, single-receptacle sealed, and the shielding can be disconnected by opening the upper cover. JX59M 2-pin series adopt back threading structure and can be compatible with 16 ~ 70mm² cables.



Application

Used for strong current connection of high voltage distribution box, HV equipment, battery box and other equipment.

Main technical performance

Rated current: 250A (2-pin) /300A (1-pin)

Rated voltage: 1000V DC (2-pin 50 ~ 70 mm²) / 750V DC (1-pin) / 500V DC (2-pin 16 ~ 35 mm²)

Working temp: -40°C ~ 125°C

IP degree: IP68 (1-pin), IP67 (2-pin)

Ordering information

Series name	JX59	-	1	M10	-50	(BK)	-R	G001
Housing material	Default: plastic	M: metal						
Separator	-							
No. of pins	1, 2.....							
Terminal connection type	M10: stud connection							
Cable cross-section	-50, -70							
Color	(OR): orange	(BK): black	(S): passivation					
Copper busbar direction	-L: left	-R: right	-U: up					
Modification	G001, G002.....							

Example

JX59-1M10-50(OR)-L: JX59 series, 1-pin, 50 mm² orange connector connected by stud, copper busbar direction is left, adapted with 50 mm² shielded cable.

Recommended models

No. of pins	Appearance	Model list	Product description
1-pin		JX59M-1M10-70(OR)-L G006	70 mm ² shielded cable, copper busbar left, orange, positive electrode
		JX59M-1M10-50(OR)-L G006	50 mm ² shielded cable, copper busbar left, orange, positive electrode
		JX59M-1M10-70(BK)-L G006	70 mm ² shielded cable, copper busbar left, black, negative electrode
		JX59M-1M10-50(BK)-L G006	50 mm ² shielded cable, copper busbar left, black, negative electrode
		JX59M-1M10-70(OR)-R G006	70 mm ² shielded cable, copper busbar right, orange, positive electrode
		JX59M-1M10-50(OR)-R G006	50 mm ² shielded cable, copper busbar right, orange, positive electrode
		JX59M-1M10-70(BK)-R G006	70 mm ² shielded cable, copper busbar right, black, negative electrode
		JX59M-1M10-50(BK)-R G006	50 mm ² shielded cable, copper busbar right, black, negative electrode
		JX59M-1M10-70(OR)-U G006	70 mm ² shielded cable, copper busbar up, orange, positive electrode
		JX59M-1M10-50(OR)-U G006	50 mm ² shielded cable, copper busbar up, orange, positive electrode
		JX59M-1M10-70(BK)-U G006	70 mm ² shielded cable, copper busbar up, black, negative electrode
		JX59M-1M10-50(BK)-U G006	50 mm ² shielded cable, copper busbar up, black, negative electrode

No. of pins	Appearance	Model list	Product description
2-pin		JX59M-2M8-16-U	16 mm ² shielded cable, copper busbar up
		JX59M-2M8-25-U	25 mm ² shielded cable, copper busbar up
		JX59M-2M8-35-U	35 mm ² shielded cable, copper busbar up
		JX59M-2M8-50(S)-U	50 mm ² shielded cable, copper busbar up
		JX59M-2M8-70(S)-U	70 mm ² shielded cable, copper busbar up

JONHON

JX17 series

Introduction

- Comply with JONHON standard Q/21EJ4686.
- Plastic housing, fixed with single hole or double holes, adapted with M4 or M5 screws. The gauge range of double thread is M6 and M8 stud, copper busbar or thread sealed hole. The products are low voltage and high current, with simple structure and convenient mounting.



Application

Used for current transmission of DC / DC equipment in electric vehicles, interchangeable with 1-pin plug, simple structure.

Main technical performance

Rated current: 200A

Rated voltage: 36V DC

Working temp: -40°C ~ 125°C

IP degree: IP67 (mounting position only)

Ordering information

Series name	JX17		
No. of pins	1, 2	-1	L 01
Terminal connection type	L: stud connection H: copper busbar thread		
Modification	01, 02, 03.....		

Example

JX17-1L01: JX17 series 1-pin double stud connector, modification 01.

Recommended models

No. of pins	Appearance	Model list	Product description
1-pin		JX17-1L	Basic type, one end is M6 stud, the other end is M8 stud, black housing
		JX17-1L01	Based on basic type, the length of M6 stud is increased by 30.5 mm

No. of pins	Appearance	Model list	Product description
1-pin		JX17-1L02	Based on basic type, orange housing
		JX17-1L03	Based on basic type, M6 end stud is changed into copper busbar structure
		JX17-1L04	Based on basic type, M8 end stud has protection structure
		JX17-1H01	One end is a blind hole with M8 thread, the other end is a through-hole with M6 thread, which can prevent the terminal from rotating
		JX17-1H02	One end is a blind hole with M8 thread, the other end is M8 stud, which can prevent the terminal from rotating
		JX17-1H03	One end is a blind hole with M8 thread, the other end is a through-hole with M6 thread, which can prevent the terminal from rotating, and it's perpendicular to the copper busbar in JX17-1H01
		JX17-1H10	One end is a blind hole with M10 thread, the other end is a waist-shaped through-hole adapt to M8, which can prevent the terminal from rotating

EJ3 series

Introduction

- Comply with JONHON standard Q/21EJ4686.
- Metal housing, multi keying error proof, shielding, water proof, etc.



Application

Used for strong current outlet connection of distribution box, motor, MCU, PDU and other equipment.

Main technical performance

Rated current: depends on adaptive cable

Rated voltage: depends on adaptive cable

Working temp: -40°C ~ 125°C

IP degree: IP67 (low current), IP68 (high current)

Ordering information

Series name	EJ3		M	-1	-50	YP	A	G001
Housing material	S: passivation	M: painting						
No. of contacts	-1, -2, -3.....							
Cable cross-section	2.5, 4, 6, 25, 35, 50							
Cable process	YP: adapted with shielded cable, shielding type is crimping							
Keying	Default: no keying	A, B, C, D, N- keying						
Modification	G001, G002, G003.....							

Example

EJ3M-1-35YPA: EJ3 series, painted metal housing, 1-pin, A keying, adapted with 35 mm² single-core shielded cable.

Recommended models

No. of pins	Appearance	Model list	Product description
2-pin		EJ3S-2-YPA/B/C/D/N	Adapted with single-core 2.5mm ² , 4mm ² shielded cable—A / B / C / D / N keying Cable accessories need to be ordered separately

No. of pins	Appearance	Model list	Product description
3-pin		EJ3S-3-YPA/B/C/D/N	Adapted with single-core 2.5mm ² , 4mm ² shielded cable, A / B / C / D / N keying Cable accessories need to be ordered separately
4-pin		EJ3S-4-YPA/B/C/D/N	Adapted with single-core 2.5mm ² , 4mm ² shielded cable, A / B / C / D / N keying Cable accessories need to be ordered separately
1-pin		EJ3S-1-25YPA/B/C/D	1-pin 25mm ² metal connector
		EJ3S-1-35YPA/B/C/D	1-pin 35mm ² metal connector
		EJ3S-1-35YPA/B/C/D G001	1-pin 35mm ² metal connector
		EJ3S-1-50YPA/B/C/D	1-pin 50mm ² metal connector

JONHON

EJ5 series

Introduction

- Comply with AK interface requirements, plug type connector, through hole threading form, adapted with electrical wire protection.
- 360° shielding, high degree of protection, high salt spray resistance. Wire harness can be protected with anti-displacement and anti-rotating.



Application

Used for the outlet connection of electrical equipment.

Main technical performance

Rated current: depends on adaptive cable

Rated voltage: 1000V DC

Working temp: -40°C ~ 125°C

IP degree: IP67

Ordering information

Series name	EJ5	M	-1	-50	Default	Y	P	A	Default
Housing material	Default: plastic M: aluminum alloy painting S: aluminum alloy passivation								
No. of pins	-1, -2.....								
Cable cross-section	25mm ² , 35mm ² , 50mm ²								
Outlet type	Default: straight outlet W: 90° outlet								
connection type	Y: crimping L: threaded pressing H: soldering								
Cable process	Default: unshielded P: shielded								
Keying	Default: no keying A, B, C, D-keying								
Modification	G001, G002, G003.....								

Example

EJ5-2-35YP: EJ5 series, plastic housing, 2-pin, adapted with 35 mm² shielded cable.

Recommended models

No. of pins	Appearance	Model list	Product description
2-pin		EJ5-2-35YP	plastic housing, 2-pin, 35mm ² , connector
		EJ5-2-50YP	plastic housing, 2-pin, 50mm ² , connector
3-pin		EJ5-3-35YP	plastic housing, 3-pin, 35mm ² , connector
		EJ5-3-50YP	plastic housing, 3-pin, 50mm ² , connector

JONHON

EJ6 series

Introduction

- Comply with JONHON standard Q/21EJ4517.
- Metal housing wiring connector, adapted with $2 \times 6 \text{ mm}^2$, $2 \times 8 \text{ mm}^2$, $2 \times 10 \text{ mm}^2$, 50 mm^2 and 70 mm^2 cables, keying error proof, shielding, water proof, fixed bellows, etc.



Application

Used for strong current outlet connection of distribution box, motor, MCU, PDU and other equipment.

Main technical performance

Rated current: depends on adaptive cable

Rated voltage: depends on adaptive cable

Working temp: $-40^\circ\text{C} \sim 125^\circ\text{C}$

IP degree: IP68

Ordering information

Series name	EJ6			M	-1	-70	Y	P	A
Housing material	M: painting	S: passivation							
No. of pins	1, 2.....								
Cable cross-section	25, 35, 50, 70								
Outlet type	Default: straight outlet		W: 90° outlet						
Terminal connection type	Y: crimping		L: screw mounting				H: soldering		
Cable process	Default: unshielded		P: shielded						
Keying	Default: no keying		A, B, C, D-keying						
Modification	G001, G002, G003.....								

Example

EJ6S-1-70YPA: EJ6 series, metal housing, 1-pin, adapted with 70 mm^2 shielded cable.

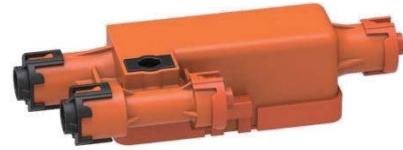
Recommended models

No. of pins	Appearance	Model list	Product description
1-pin		EJ6S-1U-50YPA/B/C/D/N/E/F/G/H G001	1-pin, 50 mm^2 mental connector

EJ10 series

Introduction

- Comply with JONHON standard Q/21EJ3813.
- This connector is in the form of wire transfer, in which a safety tube can be installed for 1-pin, with the advantages of convenient installation, reliable performance, sealing, etc. After installation, it can reach IP67.



Application

Used for outlet transfer of electrical equipment of electric vehicles.

Main technical performance

Rated current: depends on adaptive cable

Rated voltage: 1000V AC

Working temp: -40°C ~ 125°C

IP degree: IP67 (1m, 0.5h)

Ordering information

Series name	EJ10			-2	-6/16	W	Y	P	L	01
Housing material	Default: plastic M: painting S: passivation									
No. of pins	2-pin									
Cable cross-section	6mm ² /16mm ² /25mm ²									
Outlet type	Default: straight outlet W: 90° outlet									
Terminal connection type	Y: crimping L: screw crimping H: soldering									
Cable process	Default: unshielded P: shielded									
Mounting	L: stud K: waist-shaped hole									
Modification	Structural modification (01, 02, 03...)									

Note: modification means product development sequence, without special meaning.

Example

EJ10-2-6/16YL-01: EJ10 series, 2-pin, the inlet end is 6mm² cable, the outlet end is 16mm² cable, cable terminal connection is crimping.

Recommended models

No.	Appearance	Model list	Product description
1		EJ10-2-6/16YL-01	The stud buckle protrudes from the upper plane of the housing by 0.5 mm
2		EJ10-2-6/16YL-02	The stud buckle protrudes from the upper plane of the housing by 5.5 mm

JONHON

EF1 series

Introduction

- Comply with JONHON standard Q/21EJ11049.
- Metal housing, cable terminal is ultrasonic soldering, adapted to M5 stud and 12×7 waist-shaped hole.



Application

Used for line-to-line electrical connection between devices such as PTC.

Main technical performance

Rated current: rated current depends on the cable (the product adapts to 4mm² LV216 cable)

Rated voltage: 1000V DC

Working temp: -40°C ~ 125°C

IP degree: IP68 (1m, 24h)

Salt spray grade: 480h neutral salt spray

Ordering information

Series name	EF1	-	29	-	2	/	4	-	4	/	4	H	P	M5	-01
Separator	-														
Housing No.	29, 38.....														
Separator	-														
No. of pins (inlet end)	1, 2, 3.....														
Separator	/														
No. of pins (outlet end)	1, 2, 3.....														
Separator	-														
Adapted cable cross-section (inlet end)	LV216-4mm ² : 4														
Separator	/														
Adapted cable cross-section (outlet end)	LV216-4mm ² : 4														
Terminal connection	H: soldering														
Cable process	Default: unshielded														
Mounting type	Default: through-hole installation														
Structural modification	Prototype: default														
	Modification: -01.....														

Example

EF1-29-2/4-4/4HP: EF1 series, housing 29, the inlet end is 2-pin LV216-4mm², the outlet end is 4-pin LV216-4mm², cable terminal connection is soldering, shielded, through-hole installation.

EF1-29-2/4-4/4HPM5: EF1 series, housing 29, the inlet end is 2-pin LV216-4mm², the outlet end is 4-pin LV216-4mm², cable terminal connection is soldering, shielded, two M5 studs installation.

Recommended models

No.	Appearance	Model list	Product description
1		EF1-29-2/4-4/4HP	through-hole installation
2		EF1-29-2/4-4/4HPM5	two M5 studs installation

Battery Swap Connector

BPC30 series

Introduction

- Comply with JONHON standard Q/21EJ1660.
- Straight plug-in non-locking connector, the locking mechanism is realized by devices.



Application

Used for battery swap of electric vehicles, realizing the power and signal transmission between the battery box and vehicle as well as the battery box and the charging end. It is suitable for vibration environment of electric vehicles during driving.

Main technical performance

Rated current: 300A, 400A

Rated voltage: 750V DC ~ 1000V DC

Working temp: -40°C ~ 85°C

IP degree: IP68 (1m, 24h)

Ordering information

Series name	BPC	30	-	S	-	14	-	300A	/	750V	-	CR	-01
Connector type	30												
Separator	-												
Plug/ receptacle type	P: plug	S: receptacle											
Separator	-												
No. of pins (low voltage)	14												
Separator	-												
Rated current	300A												
Separator	/												
Rated voltage	750V												
Separator	-												
Type and mode	Default: vehicle receptacle	CR: rack-mounted receptacle											
Modification	-01, -02, -03...												

Example

BPC30-S-14-300/750V-CR: BPC30 series, low voltage 14-pin rack-mounted receptacle, with rated current of 300A and rated voltage of 750V.

Recommended models

Appearance	Model list	Product description
	BPC30-P-15-300A/750V-01	Metal housing, 300A, with pin, battery swap plug
	BPC30-S-15-300A/750V	Metal housing, 300A, with socket, floating, battery swap receptacle
	BPC30-P-14-400A/800V	Metal housing, 400A, with pin, battery swap plug
	BPC30-S-14-400A/800V	Metal housing, 400A, with socket, floating, battery swap receptacle
	BPC30-P-28-500A/1000V-01	Metal housing, 400A, with pin, battery swap plug
	BPC30-S-28-500A/1000V-01	Metal housing, 400A, with socket, floating, battery swap receptacle
	BPC30-P-30-300A/750V	Metal housing, 300A, with pin, battery swap plug
	BPC30-S-30-300A/750V	Metal housing, 300A, with socket, floating, battery swap receptacle

Vehicle Connector

GB AC vehicle connector series

Introduction

- Comply with GB/T20234.1-2015 and GB/T20234.2-2015.
- Ergonomic design, compact, streamlined shape, beautiful appearance, convenient and safe operation, and excellent hand feeling. The housing is fixed by riveting, no exposed screw holes, three colors of black, white and gray are available. Logo and cable length can be customized. High quality plastic housing has good weather resistance. It can withstand sunlight for long time, crash resistant and crush resistant.



Application

Used for AC charging pile, charging mode 2 (IC-CPD) and other vehicle charging systems.

Main technical performance

Rated current: 10A, 16A, 32A

Rated voltage: 250V AC (single phase), 440V AC (three phase)

Working temp: -40°C ~ 60°C

IP degree: IP54 (covered by protection cap), IP55 (after mated), IP67 (main live parts)

Ordering information

Series name	NDQ	C	-7T	-16A	-1R	G001
Product type	C: vehicle-end	G: power-end				
Current type	-7T: AC vehicle connector					
Rated current	-10A: 10A AC	-16A: 16A AC	-32A: 32A AC			
Power type	-1R: single phase	-3R: three phase				
Modification	G001, G002...					

Example

NDQC-7T-16A-1R: 16A AC single phase vehicle-end connector.

NDQG-7T-32A-3R: 32A AC three-phase power-end connector.

Recommended models

Appearance	Model list	Product description
	NDQC-7T-10A-1R	10A AC single phase vehicle-end connector
	NDQC-7T-16A-1R	16A AC single phase vehicle-end connector
	NDQC-7T-16A-3R	16A AC three phase vehicle-end connector
	NDQC-7T-32A-1R	32A AC single phase vehicle-end connector
	NDQC-7T-32A-3R	32A AC three phase vehicle-end connector

GB DC vehicle connector series

Introduction

- Comply with GB/T20234-2015.
- Ergonomic design, small size, beautiful appearance, convenient and safe operation. Battery swap vehicle connector; power pin can be quickly replaced. Ultrasonic welding technology, small and stable welding resistance.



Application

Mounted on DC charging piles to charge.

Main technical performance

Rated current: 80A, 125A, 200A, 250A

Rated voltage: 1000V

Working temp: -30°C ~ 50°C

IP degree: IP54 (covered by protection cap), IP55 (after mated), IPXXB

Ordering information

Series name	NDQ	-9T	-80A	-E	G001
Current type	-9T: DC vehicle connector				
Rated current	80A; 80A DC	125A; 125A DC	200A; 200A DC	250A; 250A DC	
Drive form	-E: electromagnetic lock				
Modification	G001, G002.....				

Example

NDQ-9T-80A-E: 80A DC vehicle connector.

Recommended models

Appearance	Model list	Product description
	NDQ-9T-80A-E	80A DC vehicle connector
	NDQ-9T-125A-E	125A DC vehicle connector
	NDQ-9T-200A-E	200A DC vehicle connector
	NDQ-9T-250A-E	250A DC vehicle connector

Type1 vehicle connector series

Introduction

- Comply with SAEJ1772-2017 and IEC62196-2-2016.
- Ergonomic design, small size, beautiful appearance, convenient and safe operation.



Application

Used for AC charger, OBC, mode 2 (IC-CPD) and other vehicle charging systems.

Main technical performance

Rated current: 16A, 32A

Rated voltage: 240V

Working temp: -30°C ~ 50°C

IP degree: IP54 (covered by protection cap), IP55 (after mated), IPXXB

Ordering information

Series name		EVC1	-VC	-16A	-240V	G001
Product type	-VC: vehicle-end connector					
Rated current	-16A: 16A AC	-32A: 32A AC				
Rated voltage	-240V: 240V AC					
Modification	G001, G002...					

Example

EVC1-VC-16A-240V: Type1 16A vehicle-end connector.

Recommended models

Appearance	Model list	Product description
	EVC1-VC-16A-240V	Type1 16A vehicle-end connector
	EVC1-VC-32A-240V	Type1 32A vehicle-end connector

CCS1 vehicle connector series

Introduction

- Comply with SAEJ1772-2017 and IEC62196-3-2014.
- Ergonomic design, compact, beautiful appearance, convenient and safe operation.



Application

Mounted on DC motors to charge.

Main technical performance

Rated current: 70A, 125A, 150A, 200A

Rated voltage: 1000V

Working temp: -30°C ~ 50°C

IP degree: IP54, IP55 (after mated), IPXXB

Ordering information

Series name	EVC1	-VC	-125A	1000V	G001
Product type	-VC: vehicle-end connector				
Rated current	-125A: 125A DC				
Rated voltage	-1000V: 1000V DC				
Modification	G001, G002...				

Example

EVC1-VC-70A-1000V: CCS1 70A vehicle connector.

Recommended models

Appearance	Model list	Product description
	EVC1-VC-70A-1000V	CCS1 70A vehicle connector
	EVC1-VC-125A-1000V	CCS1 125A vehicle connector
	EVC1-VC-150A-1000V	CCS1 150A vehicle connector
	EVC1-VC-200A-1000V	CCS1 200A vehicle connector

Type2 vehicle connector series

Introduction

- Comply with IEC62196-1-2014 and IEC62196-2-2016.
- Ergonomic design. The first generation product is small in size, beautiful in appearance and easy to operate. The second generation product is simple and elegant in shape, easy to operate, safe and reliable.



Application

Used for AC charger, OBC, mode 2 (IC-CPD) and other charging systems.

Main technical performance

Rated current: 16A, 20A, 32A

Rated voltage: 250V (single phase), 480V (three phase)

Working temp: -30°C ~ 50°C

IP degree: IP54 (covered by protection cap), IP55 (after mated), IPXXB

Ordering information

Ordering information of the first generation product

Series name		EVC2	-VC	-16A	-250V	G001
Product type	-VC: vehicle-end connector -P: power-end connector					
Rated current	-16A: 16A AC -20A: 20A AC -32A: 32A AC					
Rated voltage	-250V: rated voltage (single phase) -480V: rated voltage (three phase)					
Modification	G001, G002...					

Ordering information of the second generation product

Series name		EVC2A	-VC	-20A	-250V	G001
Product type	-VC: vehicle-end connector -P: power-end connector					
Rated current	-20A: 20A AC -32A: 32A AC					
Rated voltage	-250V: rated voltage (single phase) -480V: rated voltage (three phase)					
Modification	G001, G002...					

Example

EVC2-VC-16A-250V: Type2 16A vehicle-end connector (first generation, single phase).

EVC2A-VC-20A-250V: Type2 20A vehicle-end connector (second generation, single phase).

Recommended models

Appearance	Model list	Product description
First generation product of European standard		
	EVC2-VC-16A-250V	Type2 16A vehicle-end connector (single phase)
	EVC2-VC-32A-250V	Type2 32A vehicle-end connector (single phase)
	EVC2-VC-16A-480V	Type2 16A vehicle-end connector (three phase)
	EVC2-VC-32A-480V	Type2 32A vehicle-end connector (three phase)
	EVC2-P-16A-250V	Type2 16A power-end connector (single phase)
	EVC2-P-32A-250V	Type2 32A power-end connector (single phase)
	EVC2-P-16A-480V	Type2 16A power-end connector (three phase)
	EVC2-P-32A-480V	Type2 32A power-end connector (three phase)
Second generation product of European standard		
	EVC2A-VC-20A-250V	Type2 20A vehicle-end connector (single phase)
	EVC2A-VC-32A-250V	Type2 32A vehicle-end connector (single phase)
	EVC2A-VC-20A-480V	Type2 20A vehicle-end connector (three phase)
	EVC2A-VC-32A-480V	Type2 32A vehicle-end connector (three phase)
	EVC2A-P-20A-250V	Type2 20A power-end connector (single phase)
	EVC2A-P-32A-250V	Type2 32A power-end connector (single phase)
	EVC2A-P-20A-480V	Type2 20A power-end connector (three phase)
	EVC2A-P-32A-480V	Type2 32A power-end connector (three phase)

CCS2 vehicle connector series

Introduction

- Comply with IEC62196-1-2014 and IEC2196-3-2014.
- Ergonomic design, one-piece shape, simple and elegant, convenient and safe operation.



Application

Mounted on DC motors to charge.

Main technical performance

Rated current: 70A, 125A, 200A

Rated voltage: 1000V

Working temp: -30°C ~ 50°C

IP degree: IP54, IP55 (after mated), IPXXB

Ordering information

Series name	EVC2	-VC	-70A	-1000V	G001
Product type	-VC: vehicle-end connector				
Rated current	-70A: 70A AC	-125A: 125A AC			
Rated voltage	1000V				
Modification	G001, G002...				

Example

EVC2-VC-70A-1000V: CCS2 70A vehicle connector.

Recommended models

Appearance	Model list	Product description
	EVC2-VC-70A-1000V	CCS2 70A vehicle connector
	EVC2-VC-125A-1000V	CCS2 125A vehicle connector
	EVC2-VC-200A-1000V	CCS2 200A vehicle connector

GB-chaoji adapter series

Introduction

- Ergonomic design, small size, beautiful appearance, convenient and safe operation.
- One end is a GB vehicle inlet in accordance with GB20234.3, and the other end is a chaoji vehicle connector in accordance with GB20234.4 (standard formulation in progress).



Application

Used for the transfer of new and old interfaces of national standards, and for charging vehicles with chaoji interface of GB20234.4 (standard formulation in progress) by charging piles with charging interfaces of GB20234.3.

Main technical performance

Electrical performance

Working voltage: 750V DC

Maximum current output: 150A

Insulation resistance: room temperature $\geq 1000M\Omega$

Withstand voltage: 3000V AC

Environmental performance

Working temp: -30°C ~ 50°C

Storage temp: -40°C ~ 85°C

IP degree: covered by protection cap: IP54, after mated: IP55

Other performance

Endurance: 10000 cycles (non-live plug-in)

Ordering information

Series name	NDQ	-7T9Z	(150A	-1000V)	-0	G001
Current type	-7T9Z: chaoji vehicle connector, GB/T 20234.3 vehicle inlet					
Rated current	150A: DC 150A					
Rated current	-750V: DC 750V					
Cover direction	-0: straight plug-in dust cover					
Modification	structural modification: G001, G002...					

Example

NDQ-7T9Z (150A-1000V)-0: DC GB-chaoji adapter 150A.

Recommended models

Appearance	Model list	Product description
	NDQ-7T9Z(150A-1000V)-0	GB-chaoji adapter 150A

Liquid-cooling vehicle connector series

Introduction

- Comply with GB/T20234.1-2015, GB/T20234.3 and GB/T20234.4 (standard formulation in progress).
- Coolant: aqueous solution (non-insulating medium), insulating oil (insulating medium)
- Charging interface: GB interface, chaoji interface
- The liquid-cooling vehicle connector integrates the liquid-cooling module into the connector, reduces the cable diameter, improves the operability and the charging current, and shortens the charging time.



Application

Used for fast charging of electric vehicles.

Main technical performance

Rated current: 400A / 500A / 600A

Rated voltage: 1000V DC

Working temp: -30°C ~ 50°C

IP degree: IP54 (covered by protection cap), IP55 (after mated)

Cable diameter: Φ24.5 mm, Φ26.5 mm, Φ28.5 mm, Φ31.5 mm, Φ36.5 mm

Ordering information

Series name	NDQ	-9T	(400A-1000V)	-E	Y	G001
No. of contacts	-9T: 9-pin contact					
Rated current	(400A-1000V)	(500A-1000V)	(600A-1000V)			
Electronic lock	-E: with electronic lock					
Cooling type	Default: natural cooling S: water cooling (coolant is aqueous solution)		Y: oil cooling (coolant is insulating oil)			
Modification	G001, G002...					

Example

NDQ-9T(400A-1000V)-EY: DC 400A oil-cooling GB interface vehicle connector

Note: as the liquid-cooling vehicle connector is being continuously updated, please confirm with the engineer if necessary.

Recommended models

Appearance	Model list	Product description
	NDQ-9T(500A-1000V)-EY	DC 500A oil-cooling GB interface vehicle connector

Vehicle Inlet

GB AC vehicle inlet series

Introduction

- Comply with GB/T 20234.2-2015.
- Electronic lock and temperature sensor device, front/back mounting. The product can be customized according to the body layout and functional requirements.



Application

Used for AC charger, OBC and other vehicle charging systems. Mounted on vehicles to charge.

Main technical performance

Rated current: single phase 16A, three phase 32A

Rated voltage: 250V/440V Ambient temp: -30°C ~ 50°C Mechanical life: 10,000 cycles

IP degree: IP54 (covered by protection cap), IP55 (after mated), IP67 (tail sealed)

Cover type: leftward cover, rightward cover, straight plug-in cover

Electronic lock: electric lock/flat lock

Ordering information

Series name	NDQ	C	-7Z	(16A-	250/440V)	-L	G001
Mounting position	-C: vehicle-end	-G: power-end					
Product type	-7Z: AC vehicle inlet						
Rated current	16A, 32A						
Rated voltage	250V, 440V						
Cover type	-L: leftward cover	-R: rightward cover	-0: straight plug-in cover				
Modification	G001, G002.....						

Example

NDQC-7Z(16A-250/440V)-L: GB AC vehicle inlet, rated current is 16A, rated voltage is 250/440V, leftward cover.

Recommended models

Appearance	Model list	Product description
	NDQC-7Z(16A-250/440V)-L	16A AC leftward cover vehicle inlet
	NDQC-7Z(32A-250/440V)-L	32A AC leftward cover vehicle inlet

Appearance	Model list	Product description
	NDQC-7Z(16A-250/440V)-R	16A AC rightward cover vehicle inlet
	NDQC-7Z(32A-250/440V)-R	32A AC rightward cover vehicle inlet
	NDQC-7Z(16A-250/440V)-0	16A AC push and pull cover vehicle inlet
	NDQC-7Z(32A-250/440V)-0	32A AC push and pull cover vehicle inlet
	NDQG-7Z(16A-250/440V)-L	16A AC leftward cover socket outlet
	NDQG-7Z(32A-250/440V)-L	32A AC leftward cover socket outlet
	NDQG-7Z(16A-250/440V)-R	16A AC rightward cover socket outlet
	NDQG-7Z(32A-250/440V)-R	32A AC rightward cover socket outlet
	NDQG-7Z(16A-250/440V)-0	16A AC push and pull cover socket outlet
	NDQG-7Z(32A-250/440V)-0	32A AC push and pull cover socket outlet

GB DC vehicle inlet series

Introduction

- Comply with GB/T 20234.3-2015.
- Temperature sensor device, front/back mounting. The temperature rise is stable under high current. Suitable for various cables, the product can be customized according to the body layout and functional requirements.



Application

Used for vehicle DC charging systems, mounted on vehicles to charge.

Main technical performance

Rated current: 80A, 125A, 200A, 250A

Rated voltage: 750V

Working temp: -30°C ~ 50°C

Mechanical life: 10,000 cycles

IP degree: IP54 (covered by protection cap), IP55 (after mated), IP67 (tail sealed)

Cover type: leftward cover, rightward cover, straight plug-in cover

Outlet type: straight type, leftward type, rightward type, downward type

Ordering information

Series name	NDQ	-9Z	(80A	-750V)	-L	G001
Product type	9Z: DC vehicle inlet					
Rated current	80A, 125A, 200A, 250A					
Rated voltage	750V					
Cover type	-L: leftward cover	-R: rightward cover	-0: straight plug-in cover			
Modification	G001, G002.....					

Example

NDQ-9Z(80A-750V)-L: GB DC vehicle inlet, rated current is 80A, rated voltage is 750V, leftward cover.

Recommended models

Appearance	Model list	Product description
	NDQ-9Z(80A-750V)-L	80A DC leftward cover vehicle inlet
	NDQ-9Z(125A-750V)-L	125A DC leftward cover vehicle inlet
	NDQ-9Z(200A-750V)-L	200A DC leftward cover vehicle inlet
	NDQ-9Z(250A-750V)-L	250A DC leftward cover vehicle inlet

Appearance	Model list	Product description
	NDQ-9Z(80A-750V)-R	80A DC rightward cover vehicle inlet
	NDQ-9Z(125A-750V)-R	125A DC rightward cover vehicle inlet
	NDQ-9Z(200A-750V)-R	200A DC rightward cover vehicle inlet
	NDQ-9Z(250A-750V)-R	250A DC rightward cover vehicle inlet
	NDQ-9Z(80A-750V)-0	80A DC plug-in cover vehicle inlet
	NDQ-9Z(125A-750V)-0	125A DC plug-in cover vehicle inlet
	NDQ-9Z(200A-750V)-0	200A DC plug-in cover vehicle inlet
	NDQ-9Z(250A-750V)-0	250A DC plug-in cover vehicle inlet
	NDQ-9Z(125A-750V)-R G003	150A DC side outlet vehicle inlet

JONHON

GB DC terminal quick change vehicle inlet series

Introduction

- Comply with GB/T 20234.3-2015.
- Socket terminals can be replaced quickly.
- Power terminals and cable terminal connection are ultrasonic soldering.



Application

Used for DC charging systems with frequent charging such as buses and coaches, and mounted on vehicles to charge.

Main technical performance

Rated current: 200A, 250A

Rated voltage: 750V

Working temp: -30°C ~ 50°C

Mechanical life: 10,000 cycles

IP degree: IP54 (covered by protection cap), IP55 (after mated), IP67 (tail sealed)

Cover type: leftward cover, rightward cover, straight plug-in cover

Ordering information

Series name	NDQ	-9Z	(250A	-750V)	-L	G001
Product type	-9Z: DC vehicle inlet					
Rated current	-250A: DC 250A					
Rated voltage	-750V					
Cover type	-L: leftward cover	-R: rightward cover				
Modification	G001, G002...					

Example

NDQ-9Z(250A-750V)-L: GB DC vehicle inlet, rated current is 250A, rated voltage is 750V, leftward cover.

Recommended models

Appearance	Model list	Product description
	NDQ-9Z(250A-750V)-L	250A DC leftward cover vehicle inlet
	NDQ-9Z(250A-750V)-L G023	250A DC leftward cover vehicle inlet

GB AC/DC vehicle inlet series

Introduction

- Comply with GB/T20234.2-2015 and GB/T20234.3-2015.
- Including temperature sensor, integrated AC / DC charging interface and compatible signal with aluminium rod and aluminium bar. Small in size, the product can be customized according to the body layout and functional requirements.



Application

Used for AC and DC charging systems, mounted on vehicles to charge.

Main technical performance

Rated current: AC 16A / 32A, DC 80A, 125A, 200A, 250A

Rated voltage: 250V / 440V AC, 750V DC

Working temp: -30°C ~ 50°C

Mechanical life: 10,000 cycles

IP degree: IP54 (covered by protection cap), IP55 (after mated), IP67 (tail sealed)

Cover type: straight plug-in cover

Ordering information

Series name	NDQ	-Z	(250A-1000V)/	(32A-250/440V)	-0	G001
Product type	-Z: vehicle inlet					
DC rated current and voltage	-(125A-1000V): 125A DC -(250A-1000V): 250A DC					
AC rated current and voltage	-(32A-250/440V): 32A AC					
Cover type	-0: receptacle with dust cover					
Modification	G001, G002.....					

Example

NDQ-Z(250A-1000V)/(32A-250/440V)-0: GB AC/DC vehicle inlet, DC rated current is 250A, rated voltage is 1000V; AC rated current is 32A, rated voltage is 250/440V, dust cover type.

Recommended models

Appearance	Model list	Product description
	NDQ-Z(125A-1000V)/ (32A-250/440V)-0	125A DC 32A AC vehicle inlet
	NDQ-Z(125A-1000V)/ (32A-250V)-0	
	NDQ-Z(125A-1000V)/ (32A-440V)-0	
	NDQ-Z(250A-1000V)/ (32A-250/440V)-0	250A DC 32A AC vehicle inlet
	NDQ-Z(250A-1000V)/ (32A-250V)-0 G004	
	NDQ-Z(250A-1000V)/ (32A-250V)-0 G007	
	NDQ-Z(250A-1000V)/ (32A-250V)-0 G003	250A DC 32A AC vehicle inlet, signal integration outlet, adapted with 95 mm ² copper cable, mating with liquid-cooling vehicle connector realizing 400A rated high power charging
	NDQ-Z(250A-1000V)/ (32A-440V)-0 G004	
	NDQ-Z(250A-1000V)/ (32A-250V)-0 G005	250A DC 32A AC vehicle inlet, signal integration outlet, adapted with 180mm ² aluminium busbar /copper busbar, mating with liquid-cooling vehicle connector realizing 600A/10min high power charging

Type1 vehicle inlet series

Introduction

- Comply with SAE J1772-2017 and IEC 62196-2-2016.
- Crimping connection with cable, front mounting.



Application

Used for AC charger, OBC and other vehicle charging systems, mounted on vehicles to charge.

Main technical performance

Rated current: 16A, 32A

Rated voltage: 240V

Working temp: -30°C ~ 50°C

IP degree: IP54 (covered by protection cap), IP55 (after mated)

Ordering information

Series name	VR: vehicle-end inlet	EVC1	-VR	-16A	-240V	-2L	G001
Product type	VR: vehicle-end inlet						
Rated current	-16A: 16A AC	-32A: 32A AC					
Rated voltage	-240V: 240V AC						
Cover type	-2L: leftward cover	-2R: rightward cover					
Modification	G001, G002.....						

Example

EVC1-VR-16A-240V-2L: Type1 vehicle-end inlet, rated current is 16A, rated voltage is 240V, leftward cover.

Recommended models

Appearance	Model list	Product description
	EVC1-VR-16A-240V-2L	Type1 16A leftward cover vehicle inlet
	EVC1-VR-32A-240V-2L	Type1 32A leftward cover vehicle inlet

CCS1 vehicle inlet series

Introduction

- Comply with SAE J1772-2017 and IEC 62196-3-2014.
- Crimping connection with cable, back mounting.



Application

Used for AC and DC charging systems, and mounted on vehicles to charge.

Main technical performance

Rated current: 80 / 115 / 125A DC, 30 / 32A AC

Rated voltage: 1000V DC, 240V AC

Working temp: -30°C ~ 50°C

IP degree: IP54 (covered by protection cap), IP55 (after mated)

Ordering information

Series name	EVC1	-VR	-80A/1000V	(32A/240V)	-2L	G001
Product type	-VR: vehicle inlet					
DC rated current/voltage	-80A/1000V: 80A DC, 1000V -115A/1000V: 115A DC, 1000V -125A/1000V: 125A DC, 1000V					
AC rated current/voltage	(30A/240V): 30A AC, 240V (32A/240V): 32A AC, 240V					
Cover type	-2L: leftward cover					
Modification	G001, G002.....					

Example

EVC1-VR-80A/1000V(32A/240V)-2L: CCS1 vehicle inlet, DC rated current is 80A, rated voltage is 1000V; AC rated current is 32A, rated voltage is 240V, leftward cover.

Recommended models

Appearance	Model list	Product description
	EVC1-VR-80A/1000V (30A/240V)-2L	CCS1 80A-30A leftward cover vehicle inlet
	EVC1-VR-125A/1000V (30A/240V)-2L	CCS1 125A-30A leftward cover vehicle inlet
	EVC1-VR-115A/1000V (32A/240V)-2L	CCS1 115A-32A leftward cover vehicle inlet

Type2 socket outlet series

Introduction

- Comply with IEC 62196-1-2022, IEC 62196-2-2022.
- Screwing or crimping connection with cable, front mounting.



Application

Used for AC charger, OBC and other vehicle charging systems, and mounted on charging piles to charge.

Main technical performance

Rated current: 20A, 32A

Rated voltage: 250V (single phase), 480V (three phase)

Working temp: -30°C ~ 50°C

IP degree: IP54 (covered by protection cap), IP55 (after mated)

Ordering information

Series name	EVC2/EVC2A	-S	-20A	-250V	-2U	-L	G001
Product type	-S: socket outlet						
Rated current	-20A: 20A AC	-32A: 32A AC					
Rated voltage	250V; 250V AC (single phase)		-480V: 480V AC (three phase)				
Cover type	-2U: upward cover						
Cable Connection	-L: screwing	Default: crimping					
Modification	G001, G002.....						

Example

EVC2-S-32A-480V-2U: Type2 socket outlet, rated current is 32A, rated voltage is 480V, three phase, upward cover.

Recommended models

Appearance	Model list	Product description
	EVC2-S-20A-250V-2U	Type2 20A upward cover socket outlet (single phase)
	EVC2-S-32A-250V-2U	Type2 32A upward cover socket outlet (single phase)
	EVC2-S-20A-480V-2U	Type2 20A upward cover socket outlet (three phase)
	EVC2-S-32A-480V-2U	Type2 32A upward cover socket outlet (three phase)
	EVC2A-S-20A-250V-2U-L	Type2 20A upward cover socket outlet (single phase)
	EVC2A-S-32A-250V-2U-L	Type2 32A upward cover socket outlet (single phase)
	EVC2A-S-20A-480V-2U-L	Type2 20A upward cover socket outlet (three phase)
	EVC2A-S-32A-480V-2U-L	Type2 32A upward cover socket outlet (three phase)

Type2 vehicle inlet series



Introduction

- Comply with IEC 62196-1-2014 and IEC 62196-2-2016.
- Crimping connection with cable, front mounting.

Application

Used for AC charger, OBC and other vehicle charging systems, and mounted on vehicles to charge.

Main technical performance

Rated current: 20A, 32A

Rated voltage: 250V (single phase), 480V (three phase)

Working temp: -30°C ~ 50°C

IP degree: IP54 (covered by protection cap), IP55 (after mated)

Ordering information

Series name	EVC2A	-VR	-32A	-250V	-2L	G001
Product type	-VR: vehicle inlet					
Rated current	-20A: 20A AC	-32A: 32A AC				
Rated voltage	-250V: 250V AC (single phase)	-480V: 480V AC (three phase)				
Cover type	-2L: leftward cover	-2R: rightward cover	-1: plug-in cover			
Modification	G001, G002.....					

Example

EVC2A-VR-32A-250V-2L: Type2 vehicle inlet, rated current is 32A, rated voltage is 250V, single phase, leftward cover .

Recommended models

Appearance	Model list	Product description
	EVC2A-VR-32A-480V-2L G001	Type2 32A vehicle inlet (three phase)
	EVC2A-VR-32A-250V-2L G003	Type2 32A vehicle inlet (single phase)
	EVC2A-VR-20A-480V-2L G001	Type2 20A vehicle inlet (three phase)
	EVC2A-VR-20A-250V-2L G001	Type2 20A vehicle inlet (single phase)
	EVC2A-VR-32A-480V-1	Type2 32A vehicle inlet (three phase)
	EVC2A-VR-32A-250V-1	Type2 32A vehicle inlet (single phase)
	EVC2A-VR-20A-480V-1	Type2 20A vehicle inlet (three phase)
	EVC2A-VR-20A-250V-1	Type2 20A vehicle inlet (single phase)

CCS2 vehicle inlet series

Introduction

- Comply with IEC 62196-1-2014 and IEC 62196-3-2014.
- Crimping connection with cable, back mounting.



Application

Used for AC and DC charging systems, and mounted on vehicles to charge.

Main technical performance

Rated current: 200A DC, 32A AC

Rated voltage: 1000V DC, 250/480V AC

Working temp: -30°C ~ 50°C

IP degree: IP54 (covered by protection cap), IP44 (after mated)

Ordering information

Series name	EVC2	-VR	-200A/1000V (32A/480V)	-1	G001
Product type	-VR: vehicle inlet				
DC rated current and voltage	-200A/1000V: 200A/1000V DC				
AC rated current and voltage	(32A/480V): 32A/480V AC				
Cover type	-1: plug-in cover				
Modification	G001, G002.....				

Example

EVC2-VR-200A/1000V(32A/480V)-1: CCS2 vehicle inlet, DC rated current is 200A, rated voltage is 1000V; AC rated current is 32A, rated voltage is 480V, plug-in cover.

Recommended models

Appearance	Model list	Product description
	EVC2-VR-200A/1000V(32A/480V)-1 G001	CCS2 200A DC 32A three phase AC straight plug-in cover vehicle inlet
	EVC2-VR-200A/1000V(32A/250V)-1 G001	CCS2 200A DC 32A single phase AC straight plug-in cover vehicle inlet
	EVC2-VR-125A/1000V(32A/480V)-1 G001	CCS2 125A DC 32A three phase AC straight plug-in cover vehicle inlet
	EVC2-VR-125A/1000V(32A/250V)-1 G001	CCS2 125A DC 32A single phase AC straight plug-in cover vehicle inlet

Chaoji vehicle inlet series

Introduction

- Comply with GB/T20234.1-2015 and GB/T20234.4 (under development).
- Adapt up to 95 mm² cables, charging time for 10 ~ 15 minutes at 400A.



Application

Mounted on vehicles to charge.

Main technical performance

Rated current: non liquid cooling: 125A / 200A / 300A (short-term charging) / 400A (short-term charging)

Rated voltage: 1000V DC

Working temp: -30°C ~ 50°C

IP degree: IP54 (covered by protection cap), IP55 (after mated)

Ordering information

Series name	HDQ	-7Z	(500A)	-1000V	-0	-E	G001
Current type	-7Z: chaoji interface vehicle inlet						
Rated current	125A: 125A DC 200A: 200A DC 300A: 300A DC 400A: 400A DC						
Rated voltage	-1000V: 1000V DC						
Cover direction	-0: straight plug-in dust cover						
Electronic lock	-E: with electronic lock						
Modification	G001, G002...						

Example

HDQ-7Z(400A-1000V)-0-E: 400A chaoji interface vehicle inlet

Note: as chaoji interface standard is being formulated, the products will be updated continuously. Please contact the engineer for specific requirements.

Recommended models

Appearance	Model list	Product description
	HDQ-7Z(125A-1000V)-0-E	125A chaoji vehicle inlet
	HDQ-7Z(200A-1000V)-0-E	200A chaoji vehicle inlet

Intelligent Network Product

EVRF2 series Fakra connector

Introduction

- Comply with IS020860, USCAR-18 and USCAR-17
- RF connectors, 14 mechanical and color-coded error-proof combinations, with TPA terminal locking function



Application

Mainly used in automatic driving, entertainment equipment, remote control, navigation system, network communication and other functional modules, for transmission of radio frequency signals or digital signals.

Main technical performance

Mechanical performance

Mechanical life: ≥ 25 cycles

Vibration, mechanical shock: comply with USCAR-2: 5.4.6

Retaining force: axial retaining force ≥ 110 N

Error-proof insertion force: ≥ 80 N, some coding combinations ≥ 40 N

Electrical performance

Characteristic impedance: 50Ω

Frequency: DC ~ 6GHz

Return loss: ≥ 15.56 dB (10MHz ~ 2GHz), ≥ 13.98 dB (2GHz ~ 3GHz), ≥ 12.74 dB (3GHz ~ 6GHz)

Working voltage: ≤ 60 V DC

Withstand voltage: 800V rms (under standard atmospheric conditions)

Insulation resistance: $\geq 1000M\Omega$ (at normal temperature and humidity)

RF leakage: ≥ 45 dB (~ 3GHz), ≥ 40 dB (3GHz ~ 6GHz)

Environmental performance

Working temp: $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$

Temp shock: comply with USCAR-17: 4.5.1

Temp & humidity cycling: comply with USCAR-2: 5.6.2

Thermal aging: comply with USCAR-2: 5

Other performance

RoHS degree: meet requirement

Ordering information

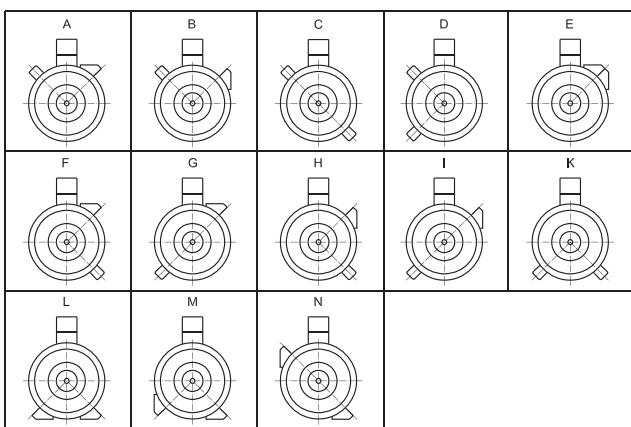
Board-to-board connector

Model of connector	EVRF2	-	A	M	R	Y	U	Z	X	
Series	EVRF2									
Separator	-									
Number of chambers	A: single B: double									
Connector type	Male connector: M Female connector: F									
Structural style	Straight: S Right angle: R									
Terminal connection	Reflow soldering, sinking-board: Z Wave soldering, sinking-board: X Reflow soldering, straight: V	Reflow soldering, floating: Y Wave soldering, floating: W Wave soldering, straight: U								
Location	Up: U Down: D Left: L Right: R None: N									
Keying	A, B, C, D, E, F, G, H, I, K, L, M, N, Z									
Waterproof	No: X Yes: W									
Modification	Modification: 1, 2, 3 Basic type: default									

Wire-to-wire connector

Model of connector	EVRF2	-	A	F	S	F	X	Z	X	
Series	EVRF2									
Separator	-									
Number of chambers	A: single B: double									
Connector type	Male connector: M Female connector: F									
Structural style	Straight: S Right angle: R									
Terminal connection	Adapted with Dacar 462-5/-6 and equivalent cable: D Adapted with RG179 cable and equivalent cable: E Adapted with Dacar 302-3/-4 cable and equivalent cable: F Adapted with Dacar 044-9 cable and equivalent cable: G									
Location	Straight terminal: X									
Keying	A, B, C, D, E, F, G, H, I, K, L, M, N, Z									
Waterproof	No: X Yes: W									
Modification	Modification: 1, 2, 3 Basic type: default									

Instructions for error-proof of keyings



Coding	Rib Combination	Color	RAL No.
A	a-b1	Jet Black	9005
B	a-b2	Cream White	9001
C	a-c	Signal Blue	5005
D	a-d	Claret Violet	4004
E	b1-b2	Leaf Green	6002
F	b1-c	Nut Brown	8011
G	b1-d	Blue Gray	7031
H	b2-c	Heather Violet	4003
I	b2-d	Beige	1001
K	c-d	Curry	1027
L	h-j1	Carmine Red	3002
M	h-j2	Pastel Orange	2003
N	h-g1	Pastel Green	6019
Z	No Ribs	Water Blue	5021

Recommended models

Board-to-board connector

Appearance	Model list	Product description
	EVRF2-AMRYUZX	Single-cavity elbow floating male connector Meet through-hole reflow soldering
	EVRF2-AMRZUZX	Single-cavity elbow sinking male connector Meet through-hole reflow soldering (inner conductor: surface-mount technology)
	EVRF2-BMRZUZX	Double-cavity elbow sinking male connector Meet through-hole reflow soldering (inner conductor: surface-mount technology)
	EVRF2-AMSVXZX	Single-cavity straight male connector Meet through-hole reflow soldering
	EVRF2-BMSVXZX	Double-cavity straight male connector Meet through-hole reflow soldering

*The figures show the Z keying. You can choose the right keying according to your actual demand. The keying is detailed in the specifications.

Straight female cable connector

Appearance	Model list	Product description
	EVRF2-AFSZX	Single-cavity straight female cable connector With TPA Adapted with RTK031 or equivalent coaxial cable
	EVRF2-BFSZX	Single-cavity straight female cable connector With TPA Adapted with RTK031 or equivalent coaxial cable

Straight male cable connector

Appearance	Model list	Product description
	EVRF2-AMSZX	Single-cavity straight male cable connector With TPA Adapted with RTK031 or equivalent coaxial cable

Straight waterproof cable connector

Appearance	Model list	Product description
	EVRF2-AFSXZW	Single-cavity straight female waterproof cable connector TPA excluded With CPA Adapted with RTK031 or equivalent coaxial cable
	EVRF2-AMSXZW	Single-cavity straight male waterproof cable connector TPA excluded Non-groove Adapted with RTK031 or equivalent coaxial cable

*The figures show the Z keying. You can choose the right keying according to your actual demand. The keying is detailed in the specifications.

EVRF3 series Mini Fakra connector

Introduction

- Comply with the USCAR interface and meet the USCAR-2
- High-density miniaturized coaxial connector, 12 mechanical and color-coded error-proof combinations, with TPA terminal locking function



Application

Mainly used in automatic driving, entertainment equipment, remote control, navigation system, network communication and other functional modules, for transmission of radio frequency signals or digital signals.

Main technical performance

Mechanical performance

Mechanical life: ≥ 25 cycles

Vibration, mechanical shock: comply with USCAR-2: 5.4.6

Error-proof insertion force: ≥ 80 N (Partial keying ≥ 40 N)

Electrical performance

Characteristic impedance: 50Ω

Frequency: DC ~ 20GHz

Return loss: ≥ 25 dB (10MHz ~ 3GHz), ≥ 20 dB(3GHz ~ 6GHz), ≥ 15 dB (6GHz ~ 12GHz), ≥ 12 dB (12GHz ~ 15GHz)
 ≥ 10 dB (15GHz ~ 20GHz)

Working voltage: ≤ 60 V DC

Withstand voltage: 800V rms (under standard atmospheric conditions)

Insulation resistance: ≥ 1000 M Ω (at normal temperature and humidity)

RF leakage: ≥ 60 dB (~ 10GHz, also depend on the specifications of applied cable)

Environmental performance

Working temp: $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$

Temp shock: comply with USCAR-17: 4.5.1

Temp & humidity cycling: comply with USCAR-2: 5.6.2

Thermal aging: comply with USCAR-2: 5

Material requirement

RoHS degree: meet requirement

Ordering information

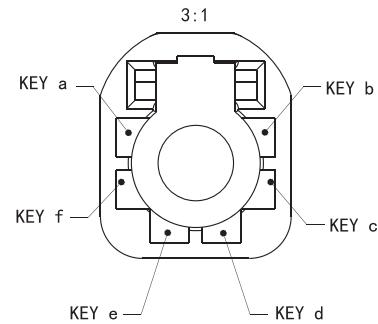
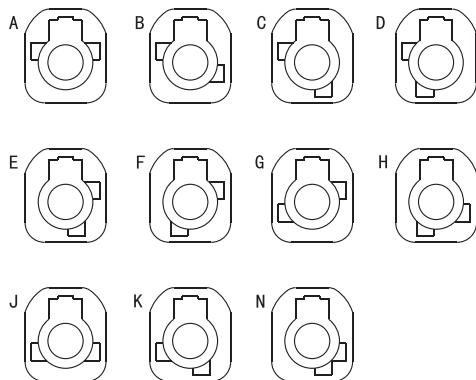
Board-to-board connector

Model of connector	EVRF3	-	A	M	R	Y	U	Z	X	
Series	EVRF3									
Separator	-									
Number of chambers	A: Single B: Double C: Triple D: Quad.....									
Connector type	Male connector: M Female connector: F									
Structural style	Straight: S Right angle: R									
Terminal connection	Reflow soldering, sinking-board: Z Wave soldering, sinking-board: X Reflow soldering, straight: V					Reflow soldering, floating: Y Wave soldering, floating: W Wave soldering, straight: U				
Location	Up: U Down: D Left: L Right: R None: X									
Keying	A, B, C, D, E, F, G, H, J, K, N, Z									
Waterproof	No: X Yes: W									
Modification	Modification: 1, 2, 3 Basic type: default									

Wire-to-wire connector

Model of connector	EVRF3	-	A	F	S	Y	X	Z	X	
Series	EVRF3									
Separator	-									
Number of chambers	A: Single B: Double C: Triple D: Quad.....									
Connector type	Male connector: M Female connector: F									
Structural style	Straight: S Right angle: R									
Terminal connection	Adapted with Dacar 462-5/-6 and equivalent cable: D Adapted with RG179 cable and equivalent cable: E Adapted with Dacar 302-3/-4 cable and equivalent cable: F Adapted with Dacar 044-9 cable and equivalent cable: G									
Location	Straight terminal: X									
Keying	A, B, C, D, E, F, G, H, J, K, N, Z									
Waterproof	No: X Yes: W									
Modification	Modification: 1, 2, 3 Basic type: default									

Instructions for error-proof of keyings



EWCAP REF #	CODE	KEY	COLOR	SIMILAR RAL-NO
888-S-001-1-N01	N	c-d	PASTEL GREEN	6019
888-S-001-1-K01	K	d-f	CURRY	1027
888-S-001-1-J01	J	c-f	BEIGE	1001
888-S-001-1-H01	H	c-e	LIGHT PINK	3015
888-S-001-1-G01	G	b-f	PLATINUM GREY	7036
888-S-001-1-F01	F	b-e	NUT BROWN	8011
888-S-001-1-E01	E	b-d	MAY GREEN	6017
888-S-001-1-D01	D	a-e	CLARET VIOLET	4004
888-S-001-1-C01	C	a-d	LIGHT BLUE	5012
888-S-001-1-B01	B	a-c	PURE WHITE	9010
888-S-001-1-A01	A	a-b	JET BLACK	9005

Recommended models

Board-to-board connector

Appearance	Model list	Product description
	EVRF3-DMRYUZX	Quad-cavity elbow floating male connector Meet through-hole reflow soldering
	EVRF3-DMSYUZX	Quad-cavity straight male connector Meet through-hole reflow soldering

	EVRF3-BMRYUZX	Double-cavity elbow floating male connector Meet through-hole reflow soldering
	EVRF3-AMRYUZX	Single-cavity elbow floating male connector Meet through-hole reflow soldering

*The figures show the Z keying. You can choose the right keying according to your actual demand. The keying is detailed in the specifications.

Straight female cable connector

Appearance	Model list	Product description
	EVRF3-DFSZXZ	Quad-cavity straight female connector With TPA With CPA Adapted with RTK031 or equivalent coaxial cable
	EVRF3-BFSZXZ	Double-cavity straight female connector With TPA With CPA Adapted with RTK031 or equivalent coaxial cable
	EVRF3-AFSZXZ	Single-cavity straight floating female connector With TPA With CPA Adapted with RTK031 or equivalent coaxial cable

Straight male cable connector

Appearance	Model list	Product description
	EVRF3-DMSZXZ	Quad-cavity straight male connector With TPA With groove Adapted with RTK031 or equivalent coaxial cable

Waterproof connector

Appearance	Model list	Product description
	EVRF3-DFSXZW	Quad-cavity elbow floating waterproof male connector Meet through-hole reflow soldering
	EVRF3-DMRYUZW	Quad-cavity straight waterproof female connector With TPA With CPA Adapted with RTK031 or equivalent coaxial cable

*The figures show the Z keying. You can choose the right keying according to your actual demand. The keying is detailed in the specifications.

JONHON

HD camera solution

Introduction

- Comply with the general Fakra/Mini Fakra interface standards of USCAR
- Perforated flange adapter. Quick insertion, shielded, waterproof and other function. The external interface adopts Fakra standard interface or Mini Fakra standard interface, can be intermatched with the corresponding standard interface; and internal interfaces are SMP interfaces
- Reflow soldering PCB, surface mounting technology



Application

Installed or laid around the body of the vehicle, mainly used for vehicle image system such as circumnavigation and traffic monitoring.

Main technical performance

Mechanical performance

Mechanical life: adapter \geq 25 cycles, female PCB connector \geq 10 cycles

Vibration, mechanical shock: comply with USCAR-2: 5.4.6

Error-proof insertion force: \geq 80N, some coding combinations \geq 40N

Electrical performance

Characteristic impedance: 50Ω

Frequency: DC ~ 6GHz

Return loss: \geq 26dB (10MHz ~ 1GHz), \geq 20dB (1GHz ~ 4GHz), \geq 15dB (5GHz ~ 6GHz)

Working voltage: \leq 60V DC

Withstand voltage: adapter 500V AC (under standard atmospheric conditions), female PCB connector 250V AC
(under standard atmospheric conditions)

Insulation resistance: \geq 1000MΩ (at normal temperature and humidity)

RF leakage: \geq 45dB (~ 3GHz), \geq 40dB (3GHz ~ 6GHz)

Environmental performance

Working temp: -40°C ~ 105°C

IP degree: IPX7/9K (ISO20653)

Temp shock: comply with USCAR-17: 4.5.1

Temp & humidity cycling: comply with USCAR-2: 5.6.2

Thermal aging: comply with USCAR-2

Other performance

RoHS degree: meet requirement

Ordering information

Board-to-board connector

Model of connector	EVRF3A	-	A	F	S	V	X	X	X	
Series	EVRF3A									
Separator	-									
Number of chambers	A: Single B: Double									
Connector type	Male connector: M Female connector: F									
Structural style	Straight: S Right angle: R									
Terminal connection	Reflow soldering, sinking-board: Z Wave soldering, sinking-board: X Reflow soldering, straight: V			Reflow soldering, floating: Y Wave soldering, floating: W Wave soldering, straight: U						
Location	Up: U Down: D Left: L Right: R None: X									
Keying	A, B, C, D, E, F, G, H, I, K, L, M, N, Z Non-plastic housing: X									
Waterproof	No: X Yes: W									
Modification	Modification: 1 2 3 Basic type: default									

Adapter

Model of connector	EVRF2/3A	-	A	M	S	M	X	Z	W	
Series	EVRF2/3A									
Separator	-									
Number of chambers	A: Single B: Double									
Cable terminal connection	Male connector: M Female connector: F									
Structural style	Straight: S Right angle: R									
Board terminal connection	Male connector: M Female connector: F									
Location	Up: U Down: D Left: L Right: R None: X									
Keying	A, B, C, D, E, F, G, H, I, K, L, M, N, Z error-proof of non-keyings: X									
Waterproof	No: X Yes: W									
Modification	Modification: 1 2 3 Basic type: default									

Recommended models

Appearance	Model list	Product description
	EVRF2/3A-AMSMXZW	Single-cavity straight male revolutionary flange adapter PCB Mini Fakra interface, Cable Fakra interface
	EVRF3A-AFSYXXX	Single-cavity straight female connector Meet reflow soldering, surface mounting technology

*The figures show the Z keying. You can choose the right keying according to your actual demand. The keying is detailed in the specifications.

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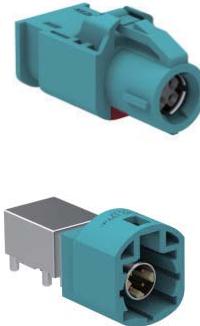
EVHS2 series high-speed connector

Introduction

- Comply with the general HSD interface standards of USCAR-2
- The 4-pin structure of differential connectors can stably transmit differential signals and provide power for the equipment. Supporting 14 mechanical and color-coded error-proof combinations, with TPA terminal locking function

Application

Used for automotive audio-visual entertainment systems, safety and anti-collision cameras, GPS , V2X, ADAS, T-BOX, streaming media, etc.



Main technical performance

Mechanical performance

Mechanical life: ≥25 cycles

Vibration, mechanical shock: comply with USCAR-2: 5.4.6

Retaining force: axial retaining force ≥110N, lateral retaining force ≥75N

Insertion force: ≤30N

Error-proof insertion force: ≥80N

Electrical performance

Characteristic impedance: 100Ω

Frequency: DC ~ 2GHz

Return loss: ≥20dB (10MHz ~ 1GHz), ≥17dB (1GHz ~ 2GHz)

Working voltage: ≤60V DC

Working current: ≤1.5A DC

Withstand voltage: 750V rms (under standard atmospheric conditions)

Insulation resistance: ≥1000MΩ (at normal temperature and humidity)

Coupling attenuation: ≥65dB (~ 1GHz), ≥60dB (1GHz ~ 2GHz)

Environmental performance

Working temp: -40°C ~ 105°C

Temp shock: comply with USCAR-17: 4.5.1

Temp & humidity cycling: comply with USCAR-2: 5.6.2

Thermal aging: comply with USCAR-2: 5.6.3

Other performance

RoHS degree: meet requirement

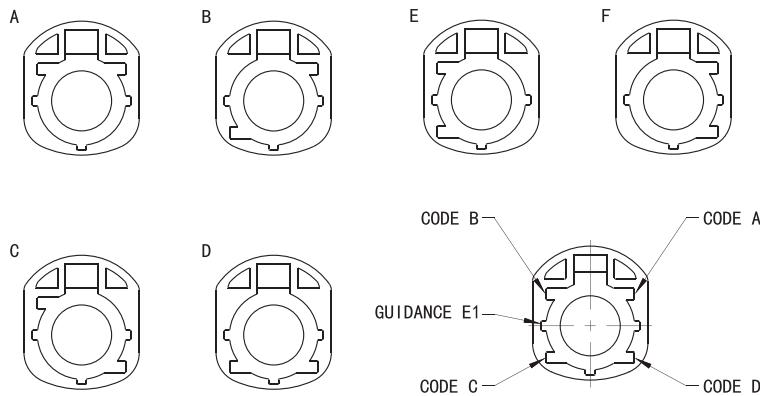
Ordering information**Board-to-board connector**

Model of connector	EVHS2	-	A	M	R	Z	U	Z	X	
Series	EVHS2									
Separator	-									
Number of chambers	A: Single B: Double									
Connector type	Male connector: M Female connector: F									
Structural style	Straight: S Right angle: R									
Terminal connection	Reflow soldering, sinking-board: Z Wave soldering, sinking-board: X Reflow soldering, straight: V		Reflow soldering, floating: Y Wave soldering, floating: W Wave soldering, straight: U							
Location	Up: U Down: D Left: L Right: R None: X									
Keying	A, B, C, D, E, F, Z									
Waterproof	No: X Yes: W									
Modification	Modification: 0, 1, 2, 3 Basic type: default									

Wire-to-wire connector

Model of connector	EVHS2	-	A	F	S	H	X	Z	X	
Series	EVHS2									
Separator	-									
Number of chambers	A: Single B: Double									
Connector type	Male connector: M Female connector: F									
Structural style	Straight: S Right angle: R									
Terminal connection	Adapted with Dacar 535 and equivalent cable: H Adapted with Dacar 566 cable and equivalent cable: J ...									
Location	Straight terminal: X									
Keying	A, B, C, D, E, F, Z									
Waterproof	No: X Yes: W									
Modification	Modification: 0, 1, 2, 3 Basic type: default									

Instructions for error-proof of keyings



EWCAP REF.NO		CODE/TYPE	COLOR	SIMILAR RAL-NO
VARIANT 1	VARIANT 2			
999-S-004-2-F01	999-S-004-2-T01	F=A-D-E1	nut brown	8011
999-S-004-2-EO1	999-S-004-2-S01	E=B-C-E1	leaf green	6002
999-S-004-2-D01	999-S-004-2-RO1	D=C-D-E1	claret violet	4004
999-S-004-2-C01	999-S-004-2-Q01	C=B-D-E1	signal blue	5005
999-S-004-2-B01	999-S-004-2-P01	B=A-C-E1	cream	9001
999-S-004-2-A01	999-S-004-2-NO1	A=A-B-E1	jet black	9005

Recommended models

Board-to-board connector

Appearance	Model list	Product description
	EVHS2-AMRZUXX	Single-cavity elbow sinking male connector Meet through-hole reflow soldering
	EVHS2A-AMRZUXX	Single-cavity elbow sinking male connector Meet through-hole reflow soldering With power supply Pin*2

Straight female cable connector

Appearance	Model list	Product description
	EVHS2-AFSZX	Single-cavity straight female connector With TPA Adapted to Dacar535 or equivalent 4-core differential cable
	EVHS2A-AFSZX	Single-cavity straight female connector With TPA Adapted to Dacar535 or equivalent 4-core differential cable The power terminal wiring specification can be AWG22/20

Straight male cable connector

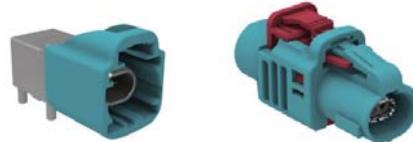
Appearance	Model list	Product description
	EVHS2-AMSZX	Single-cavity straight male connector With TPA Non-groove Adapted to Dacar535 or equivalent 4-core differential cable

*The figures show the Z keying. You can choose the right keying according to your actual demand. The keying is detailed in the specification.

Vehicle ethernet connector

Introduction

- Comply with ISO 8092-6, USCAR and national standard interface, and meet the OPEN Alliance TC9 and USCAR-2 standards
- Differential connectors are available in a variety of mechanical and color-coded combinations to prevent mismatch, with TPA & CPA terminal locking.



Application

Used in vehicle gateway, data center, domain controller, smart lamp, camera, parking radar, laser radars, T-box, etc.

Main technical performance

Mechanical performance

Mechanical life: ≥ 25 cycles

Vibration, mechanical shock: comply with USCAR-2: 5.4.6

Retaining force: axial retaining force ≥ 110 N, lateral retaining force ≥ 75 N

Insertion force: ≤ 25 N

Error-proof insertion force: ≥ 150 N

Electrical performance

Characteristic impedance: 100Ω

Frequency: DC ~ 10GHz

Return loss: ≥ 30 dB (10MHz ~ 3GHz), ≥ 25 dB (3GHz ~ 6GHz), ≥ 20 dB (6GHz ~ 10GHz)

Working voltage: ≤ 60 V DC

Working current: ≤ 1.5 A DC

Withstand voltage: 250V DC (under standard atmospheric conditions)

Insulation resistance: $\geq 100M\Omega$ (at normal temperature and humidity)

Shielding attenuation: ≥ 45 dB (~ 600MHz, OPEN TC9 STP)

Environmental performance

Working temp: $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$

Temp shock: comply with USCAR-17: 4.5.1

Temp & humidity cycling: comply with USCAR-2: 5.6.2

Thermal aging: comply with USCAR-2: 5.6.3

Other performance

RoHS degree: meet requirement

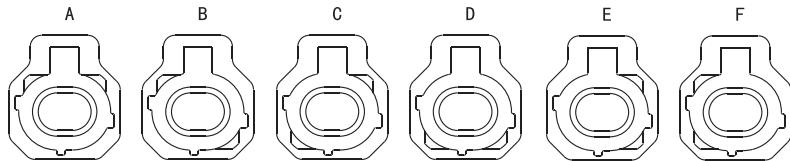
Ordering information**Board-to-board connector**

Model of connector	EVHS3	-	A	M	R	Y	U	Z	X
Series	EVHS3								
Separator	-								
Number of chambers	A: Single B: Double								
Connector type	Male connector: M Female connector: F								
Structural style	Straight: S Right angle: R								
Terminal connection	Reflow soldering, sinking-board: Z Reflow soldering, floating: Y Wave soldering, sinking-board: X Wave soldering, floating: W Reflow soldering, straight: V Wave soldering, straight: U								
Location	Up: U Down: D Left: L Right: R None: X								
Keying	A, B, C, D, E, F, G, H, I, K, L, M, N, Z								
Waterproof	No: X Yes: W								
Modification	Modification: 1 2 3 Basic type: default								

Wire-to-wire connector

Model of connector	EVHS3	-	A	F	S	A	X	Z	X
Series	EVHS3								
Separator	-								
Number of chambers	A: Single B: Double								
Connector type	Male connector: M Female connector: F								
Structural style	Straight: S Right angle: R								
Terminal connection	Adapted to GGX9305/GGX9534/Dacar686-3 or equivalent Ethernet cable connector: A								
Location	Straight terminal: X								
Keying	A, B, C, D, E, F, G, H, I, K, L, M, N, Z								
Waterproof	No: X Yes: W								
Modification	Modification: 1 2 3 Basic type: default								

Instructions for error-proof of keyings



EWCAP REF #	CODE	KEY	Farbe color	SIMILAR RAL-NO
777-S-002-1-A01	A	a-b-E1	JET BLACK	9005
777-S-002-1-B01	B	a-c-E1	PURE WHITE	9010
777-S-002-1-C01	C	b-d-E1	LIGHT BLUE	5012
777-S-002-1-D01	D	c-d-E1	CLARET VIOLET	4004
777-S-002-1-E01	E	b-c-E1	MAY GREEN	6017
777-S-002-1-F01	F	a-d-E1	NUT BROWN	8011

Recommended models

Board-to-board connector

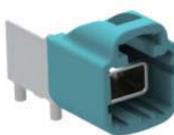
Appearance	Model list	Product description
	EVHS3-AMRYUZX	Single-cavity elbow floating male connector Meet through-hole reflow soldering
	EVHS3-BMRYUZX	Double-cavity elbow floating male connector Meet through-hole reflow soldering
	EVHS3-CMRYUZX	Triple-cavity elbow floating male connector Meet through-hole reflow soldering
	EVHS3-DMRYUZX	Quad-cavity elbow floating male connector Meet through-hole reflow soldering

Wire-to-wire connector

Appearance	Model list	Product description
	EVHS3-AFSZX	Single-cavity straight female connector With TPA With CPA Adapted to on-board shielded differential cable
	EVHS3-BFSZX	Double-cavity straight female connector With TPA With CPA Adapted to on-board shielded differential cable
	EVHS3-CFSZX	Triple-cavity straight female connector With TPA With CPA Adapted to on-board shielded differential cable
	EVHS3-DFSZX	Quad-cavity straight female connector With TPA With CPA Adapted to on-board shielded differential cable

*The figures show the Z keying. You can choose the right keying according to your actual demand. The keying is detailed in the specifications.

Board-to-board connector

Appearance	Model list	Product description
	EVHS3A-AMRYUAX	Single-cavity elbow floating male connector, national standard interface Meet through-hole reflow soldering

Wire-to-wire connector

Appearance	Model list	Product description
	EVHS3A-AFSZX	Single-cavity straight female connector, national standard interface With TPA With CPA Adapted to on-board shielded differential cable

*The figures show the Z keying. You can choose the right keying according to your actual demand. The keying is detailed in the specifications.

Waterproof connector

Appearance	Model list	Product description
	EVHS3A-AMRYUAW	Single-cavity elbow floating waterproof male connector, national standard interface Meet through-hole reflow soldering
	EVHS3A-DMRYUAW	Quad-cavity elbow floating waterproof male connector, national standard interface Meet through-hole reflow soldering

Waterproof cable connector

Appearance	Model list	Product description
	EVHS3A-AFSXZW	Single-cavity straight waterproof female connector, national standard interface With TPA With CPA Adapted to on-board shielded differential cable
	EVHS3A-DFSXZW	Single-cavity straight waterproof female connector, national standard interface With TPA With CPA Adapted to on-board shielded differential cable

EPS1 series power signal connector

Introduction

- Handle locking, reliable connection and convenient operation, multiple keying error-proof, waterproof, TPA, CPA, etc. Plug terminal is crimping, and receptacle terminal is soldering, with the advantages of low termination resistance



Application

Used for low-voltage power supply and signal connection in the vehicle.

Main technical performance

Rated current: 2A ~ 40A

Rated voltage: 12V/24V/36V DC

Working temp: tin-plated products: -40°C ~ 105°C; gold-plated products: -40°C ~ 125°C

IP degree: IP67, IP68

Ordering information

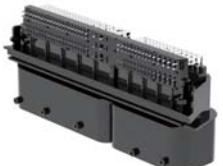
Series	Power signal hybrid connector	EPS1 / EPS1A	-	48A	T	K	Y	A
Separator	-							
Number of chambers	Single: 01 default Double: 02 Triple: 03.....							
Insert arrangement	32A, 48A, 32A48A.....							
Connector type	T: plug Z: receptacle							
Contact type	J: pin K: socket							
Terminal connection	Straight PCB: B Right angle PCB: W Crimping: Y Soldering: H							
Keying	A, B, C, D.....							
Modification	Prototype: default Structural modification (G001, G002...) Other modification (-01, -02...)							

Example

EPS1-48ATKYA: EPS1 series, single, 48-pin plug, A-type insert arrangement, contact is socket, terminal crimping, A keying.

Recommended models

No. of pins	Appearance	Model list	Product description
32-pin		EPS1A-32ATKYA	Adapted with single-core 0.35 mm ² (24-pin), and 1.5 mm ² (8-pin) cable - A keying- straight plug (contact, cable duct, TPA, blind blocking need to be ordered separately)
		EPS1A-32AZJWA	A keying - with mounting error-proof-right angle PCB receptacle (24-pin 0.64*0.64 pin, 8-pin 1.5*0.8 pin)
48-pin		EPS1A-48ATKYA	Adapted with single-core 0.35 mm ² (40-pin), and 1.5 mm ² (8-pin) cable - A keying- straight plug (contact, cable duct, TPA, blind blocking need to be ordered separately)
		EPS1-48AZJWA-01	A keying - with mounting error-proof - right angle PCB receptacle (40-pin 0.64*0.64 pin, 8-pin 1.5*0.8 pin)
		EPS1-48AZJBA	A keying - with mounting error-proof - Straight PCB receptacle (40-pin 0.64*0.64 pin, 8-pin 1.5*0.8 pin)
80-pin		EPS1-0280AZJWA	A keying - with mounting error-proof - right angle PCB receptacle - double: 48-pin+32-pin (64-pin 0.64*0.64 pin, 16-pin 1.5*0.8 pin)

126-pin		EPS1-60ATKYA	Adapted with single-core 0.35 mm ² (56-pin), and 6 mm ² (4-pin) cable - A keying - straight plug (contact, locking unit, signal TPA, power waterproof plugging, blind blocking need to be ordered separately)
		EPS1-66ATKYA	Adapted with single-core 0.35 mm ² (54-pin), and 2.5 mm ² (12-pin) cable - A keying - straight plug (contact, locking unit, signal TPA, power waterproof plugging, blind blocking need to be ordered separately)
		EPS1-02126AZJWA	A keying - with mounting error-proof - right angle PCB receptacle - double: 60-pin+66-pin (110-pin 0.64*0.64 pin ,12-pin 2.8*0.8 pin, 4-pin 6.3*0.8 pin)
154-pin		EPS1-60BTKYA	Adapted with single-core 0.35 mm ² (36-pin), and 1.5 mm ² (24-pin) cable - A keying - straight plug (contact, locking unit, TPA, blind blocking need to be ordered separately)
		EPS1-94ATKYA	Adapted with single-core 0.35 mm ² (84-pin), and 1.5 mm ² (4-pin), and 2.8 mm ² (6-pin) cable - A keying - straight plug (contact, locking unit, TPA, power waterproof plugging, blind blocking need to be ordered separately)
		EPS1-02154AZJWA	A keying - with mounting error-proof - right angle PCB receptacle - double: 60-pin+94-pin (120-pin 0.64*0.64 pin , 28-pin 1.5*0.6 pin, 6-pin 2.8*0.8 pin)

EPS3 series

Introduction

- Multiple keying error-proof, TPA, CPA, etc. Plug terminal is crimping, and receptacle terminal is soldering, with the advantages of low termination resistance



Application

Used for low-voltage power supply and signal connection in the vehicle.

Main technical performance

Rated current: 2A ~ 12A

Rated voltage: 12V/24V DC

Working temp: tin-plated products: -40°C ~ 105°C

Ordering information

Series	Power signal hybrid connector	EPS3	-	28	T	K	Y	A	
Separator	-								
Number of chambers	Single: 01 default Double: 02 Triple: 03.....								
Insert arrangement	28A, 28A28B.....								
Connector type	T: plug Z: receptacle								
Contact type	J : pin K: socket								
Terminal connection	Straight PCB: B Right angle PCB: W Crimping: Y Soldering: H								
Keying	A, B, C, D.....								
Modification	Prototype: default Structural modification (G001, G002...) Other modification (-01, -02...)								

Example

EPS3-28ATKYA: EPS3 series, single, 28-pin plug, A-type insert arrangement, contact is socket, terminal crimping, A keying.

Recommended models

No. of pins	Appearance	Model list	Product description
28-pin		EPS3-28ATKYA	Adapted with single-core 0.35 mm ² (21-pin), and 0.5-1.5 mm ² (7-pin) cable - A keying - straight plug (contact, cable duct, TPA, blind blocking need to be ordered separately)
56-pin		EPS3-0228B28CZJWA	A keying - with mounting error-proof - elbow PCB receptacle - double-cavity: 28-pin+28-pin (42-pin 0.5*0.4 pin ,14-pin 1*0.6 pin)
84-pin		EPS3-0328A28B28CZJBA	A keying - with mounting error-proof - straight PCB receptacle - triple-cavity: 28-pin+28-pin+28-pin (63-pin 0.5*0.4 pin , 21-pin 1*0.6 pin)

Charging & Discharging Harness

IC-CPD

GB IC-CPD



Introduction

- Comply with GB/T 18487.1-2015 and NB/T 42077-2016.
- One end is a household power plug in accordance with GB 2099.1-2008, and the other end is a AC vehicle plug in accordance with GB / T20234.2-2015.
- Logo label and cable length can be customized.

Application

Used for AC charging system of electric vehicles.

Main technical performance

Electrical performance

Working voltage: 220V AC

Working frequency: 50Hz

Rated current: 8/13A

Leakage protection: Type A, 30mA, AC

Insulation resistance: room temperature $\geq 50M\Omega$ (changes in humid or high temperature environment)

Withstand voltage: 2500V AC (input / output to ground)

Environmental performance

Working temp: -40°C ~ 60°C

IP degree: control box IP67

vehicle connector IP54 (live part is IP67)

Altitude: ≤ 4000 m

Ordering information

Series name	CPA0	-10/16	-220	-C1	-01	(L=5000)
Rated current	-10: 8A -16: 13A					
Rated voltage	-220: 220VAC					
Vehicle plug	-C1R: 1 vehicle plug, riveting process					
Modification	-01, -02.....					
Cable	(L=5000): length of cable is 5000 mm					

Example

CPA0-16-220-C1R-03(L=5000): CPA0 series charging cable, specification of power plug is 16A, rated current is 13A, rated voltage is 220V, and cable length is 5000 mm.

EU IC-CPD

Introduction

- Comply with IEC 61851-1-2017 and IEC 62752-2018.
- One end is a power plug in accordance with IEC 60884-1-2011, and the other end is a plug for AC vehicles in accordance with IEC 62196-2-2016.
- Product logo label and cable length can be customized according to customer requirements.



Application

Used for AC charging system of electric vehicles.

Main technical performance

Electrical performance

Working voltage: 230V AC

Working frequency: 50/60Hz

Rated output current: 6/8/10/13/16

Leakage protection: Type B, 30mA (AC), 6mA (DC)

Insulation resistance: room temperature $\geq 50M\Omega$ (changes in humid or high temperature environment)

Withstand voltage: 2500V AC (input / output to ground)

Environmental performance

Working temp: $-40^{\circ}\text{C} \sim 60^{\circ}\text{C}$

IP degree: control box IP67

vehicle connector IP54

Altitude: ≤ 3000 m

Ordering information

Series name	ECPA0	-16(10)	-230	-C1	-01
Rated current	-16(10): specification of power plug is 16A, rated output current is 10A -16: specification of power plug is 16A, rated output current is 13A				
Rated voltage	-230: 230V AC				
Vehicle plug	-C1: 1 vehicle plug				
Modification	-01, -02.....				

Example

ECPA0-16(8)-230-C1: ECPA0 series charging cable, specification of power plug is 16A, rated output current is 8A, and rated voltage is 230V.

V2L

Introduction

- V2L for electric vehicles.
- One end is a household power strip in accordance with GB 2099.7- 2015, and the other end is an AC vehicle connector in accordance with GB/T 20234.2-2015.
- Over-temperature protection and overload protection can be integrated in the power strip.



Application

Used for AC discharging system of electric vehicles.

Main technical performance

Electrical performance

Working voltage: 220V AC

Working frequency: 50Hz

Maximum output current: 16A

Over-temperature protection threshold: 100°C

Insulation resistance: room temperature $\geq 10M\Omega$ (changes in humid or high temperature environment)

Withstand voltage: 2500V AC (input / output to ground)

Environmental performance

Working temp: -30°C ~ 55°C

Storage temp: -40°C ~ 85°C

Other performance

Endurance: vehicle connector: 10,000 cycles; household power strip: 5,000 cycles

Length of harness: 3 / 5m

GB Charging Mode 2

Introduction

- Integrate control box inside the vehicle connector, smaller size, more portable, less space occupied in the trunk.
- Without control box can avoid the risk of crushing and soaking
- High-end version can be connected to smartphones via Bluetooth to achieve charging current adjustment.
- One end is a household power plug in accordance with GB/T 2099.1-2008, and the other end is an AC vehicle plug in accordance with GB/T 20234.2-2015.
- Logo label and cable length can be customized.



Application

Used for AC charging system of electric vehicles.

Main technical performance

Electrical performance

Working voltage: 220V AC

Working frequency: 50Hz

Rated current: 8/13A

Leakage protection: Type A, 30mA, AC

Insulation resistance: room temperature $\geq 50M\Omega$

(changes in humid or high temperature environment)

Withstand voltage: 2500V AC (input / output to ground)

Environmental performance

Working temp: -40°C ~ 60°C

Storage temperature: -40°C ~ 85°C

IP degree: vehicle connector IP67

Altitude: ≤ 4000 m

Other performance

Endurance: vehicle connector: 10,000 cycles;

household power strip: 5,000 cycles

Length of harness: 3/5m

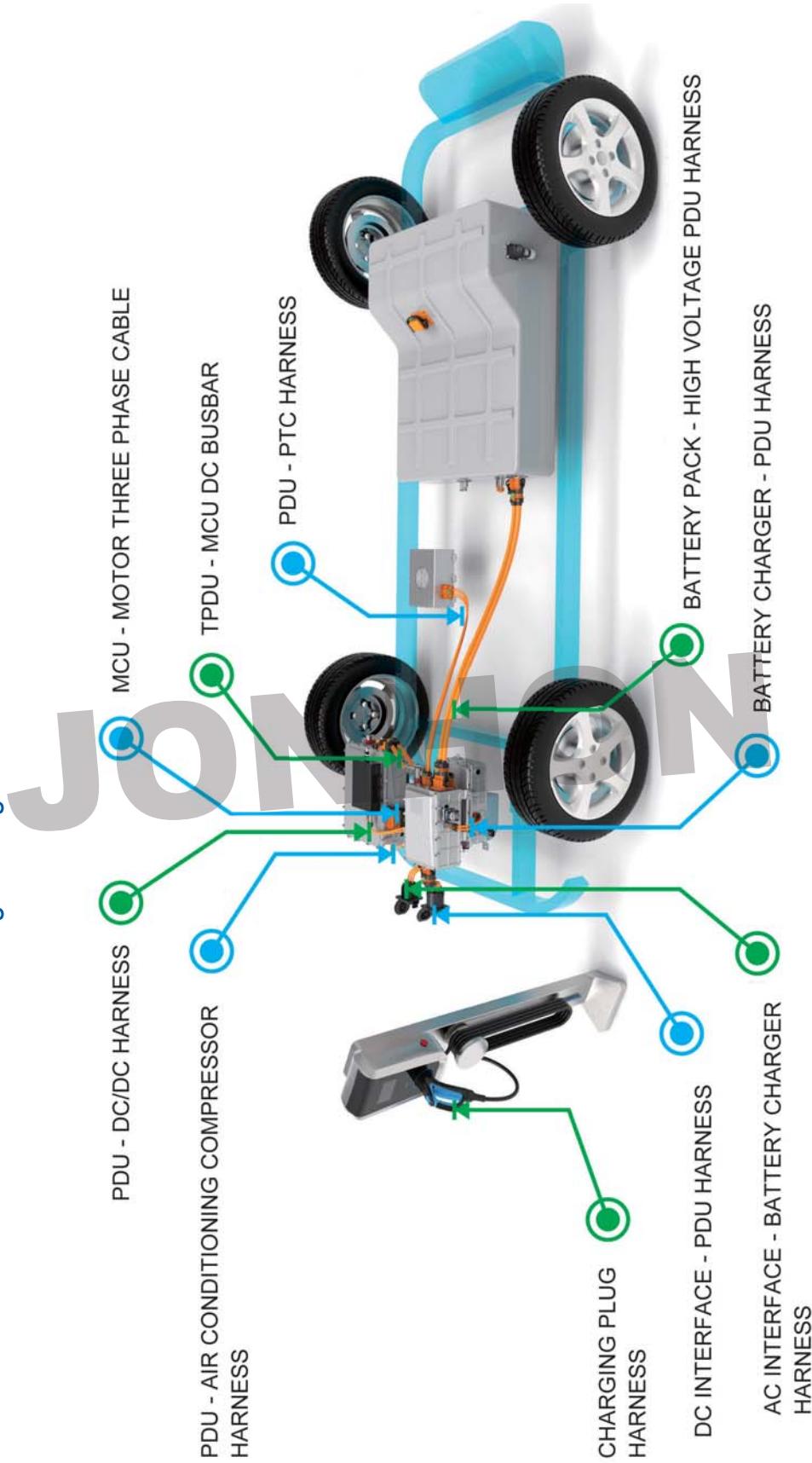
Ordering information

Series name	NCPA0	-10/16	-250	-C1	-01
Rated current	-10: 8A -16: 13A				
Rated voltage	-250: household 250VAC				
Vehicle plug	-C1: GB triangular plug				
Modification	-01(with Bluetooth)				

Example

NCPA0-16-250-C1-01: NCPA0 series charging cable, specification of power plug is 16A, rated output current is 13A, and rated voltage is 250V, with Bluetooth connection function.

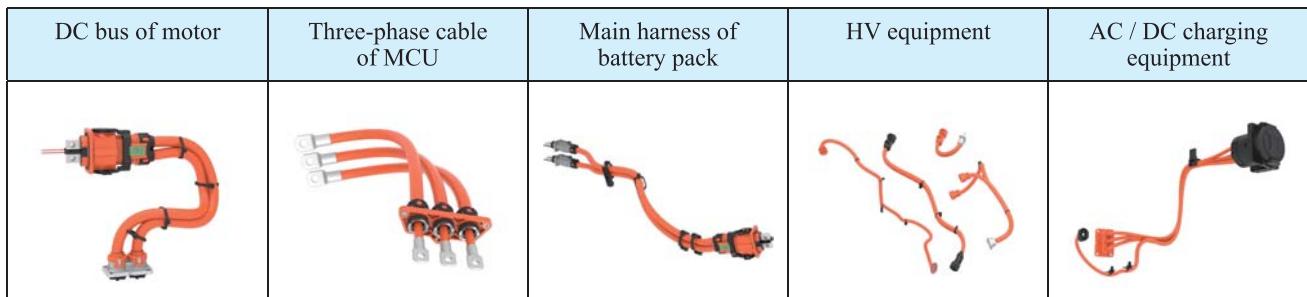
High Voltage Harness for Electric Vehicle



High Voltage Harness for Electric Vehicle

Application

In cable system of EV, the transmission of electricity and signal is mainly realized by cable assemblies. JONHON develops high voltage cable assemblies and busbar for customers according to industry characteristics, including DC bus of motor, three-phase cable of MCU, main harness of battery pack, HV equipment, AC / DC charging equipment, etc.



Main technical performance

High insulation, high reliability, touch proof, integration, good shielding and good protection functions.

Application of high voltage harness

System	Products involved
Motor M	<p>3-pin or 1-pin high voltage high current connector (EVH1/EVH4), connector (EJ3/EJ5) and its corresponding harness (motor three-phase cable), signal connector (CT63), etc.</p> 
MCU	<p>The input end is high voltage high current connector (EVH1/EVH4) or connector (JX59) and its corresponding harness, the output end is 3-pin (EVH1/ EVH4) or 1-pin high voltage (EP1/EVH1/4) high current connector, connector (EJ3/EJ5) and its corresponding harness (motor three-phase cable), CT63 signal connector, etc.</p> 

System	Products involved	
Battery pack	1. Generally, battery cells are combined into battery pack according to certain series-parallel scheme, and output to high voltage main harness through high voltage high current connectors or cable connectors. 2. Each battery cell is connected to BMS to realize charge and discharge monitoring and other functions. 3. In order to avoid the inability to charge and discharge at low temperature, battery pack is equipped with heating film or liquid cooling system to heat the battery, involving battery heating harness or battery water heater harness. Vehicles only used in higher temperature areas may not have this function.	EVH2
		GYHF
		DLQ
		EVH6
HV equipment	Various high and low voltage connectors	
DC converter DC/DC	2-pin high voltage low current connector (input end) (EVH2), input high voltage low current harness, (EP1) and JX17 series (output end), output low voltage high current harness, (CT63) signal connector, etc.	EVH2
		EP1
		CT63
Inverter DC/AC	2-pin high voltage low current connector (EVH2) and its harness (input end), 3-pin high voltage low current connector (EVH2/C105) and its harness (output end), (CT63) signal connector.	EVH2
		C105
		CT63
OBC	3-pin low current connector (EVH2/C105), 2-pin low current connector (EVH2) and its harness, (CT63) signal connector, etc.	EVH2
		C105
		CT63
Fast charging interface (DC), slow charging interface (AC)	   	GB AC/ DC vehicle connector
		GB AC/DC vehicle inlet
		GB AC+DC vehicle inlet
		European standard products
		American standard products

Busbar

Introduction

- High current carrying capacity, low space occupancy, lightweight, and easy automatic assembly.
- Meet the multi scenario applications of the vehicle.
- Carrying current over 800A.

Application

Used for electric vehicle charging circuit, high-voltage circuit, battery pack internal connection, vehicle equipment, and energy storage field.

Main technical performance

Parameter name: parameter value

Conductor number: T2, M-state, 6101, T64/T63

Conductor performance: comply with GBT 2059 and ASTM B317/B317M

Surface treatment of conductors: silver plated, tin plated, nickel plated

Common conductor cross-sectional area: 3 * 16 (customizable) 35 * 5.3 (customizable)

Insulation material: PA12 (XLPE, PVC)

Insulation layer color: orange (customizable)

Insulation layer thickness: 0.5-1.2mm

Temperature rating: -40 ~ 125 °C

Working voltage: 1000V DC

Flame retardant rating: PA12 can reach UL94-V0, while the rest depends on the insulation material properties

Environmental protection level: ROHS, REACH, ELV

Salt spray resistance: over 48 hours

Summary record

JONHON

Summary record

JONHON