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Interconnect Solutions for e-mobility IEC, SAE and GB/T



We Connect The future of e-mobility

Drawing upon 100 years of interconnect excellence and nearly a decade of innovation in the Electric Vehicle industry, ITT represents a committed partner to today's e-mobility industry, bringing connection solutions to the market that are truly Engineered for Life.

Global solutions for the EV industry

The ITT difference

- Proven application expertise
- Global capabilities & local support
- Unrivalled customization expertise
- A committed innovator & business partner

About ITT

ITT is a diversified leading manufacturer of highly engineered critical components and customized technology solutions for the energy, transportation and industrial markets. Building on its heritage of innovation, ITT partners with its customers to deliver enduring solutions to the key industries that underpin our modern way of life. Founded in 1920, ITT is headquartered in White Plains, N.Y., with employees in more than 35 countries and sales in a total of approximately 125 countries. For more information visit www.itt.com

IEC, SAE and GB/T e-mobility Interconnect Solutions

ITT's class leading UL and CE certified connectors, plugs, inlets, outlets and accessories offer recognized, trusted and proven charging solutions for today's e-mobility markets. Built in accordance with all key regional standards - IEC 62196 for Europe, SAE J1772 for the Americas and Japan and GB/T 20234 for China they provide a truly global portfolio.

ITT offers a fully comprehensive range of AC charging options— with an industry leading amperage range from 10A to 80A, single and triple phase variants, low contact resistance and a minimum of 10k mating cycles. In addition to off the shelf solutions our EV offering is fully customizable to meet specific requirements and we are able to offer variants on colors, harnesses and terminals.

By using common coupler connector/plug elements such as an ergonomically designed handle, robust contact system, innovative wire positioners and strain relief system ITT is able to serve global industry players with a consistent, recognizable look and feel to support their own product, user and brand experience.



Key features

- Cable options certified and approved to regional requirements
- Sealing to meet and exceed specifications
- Up to 80A AC Charging option
- Low contact resistance
- Minimum 10k mating cycles
- Connector and plug strain relief provides protection from cable overstressing

Applications

- Home EV Charging Units
- Public Charging Stations
- Roadside Assistance Trucks
- Fleet Trucks
- EV Mass Transit Vehicles
- Electric Watercraft
- Passenger Vehicles
- Electric Motorcycles
- Electric Agriculture Vehicles

An e-mobility leader

- A truly global product portfolio
- Extensive customization options
- A track record of EV innovation
- A pioneer in DC fast charging technology

The Gen 2+ Contact System

ITT's new Gen2+ contact system utilizes a state of the art canted coiled spring design that delivers extended lifetime usage and minimizes mechanical stress, miss alignment and power loss.





IEC electric vehicle charging solutions

ITT's IEC e-mobility solutions are built in accordance with IEC 62196-1 and 62196-2 standards for single and three phase charging systems.

IEC performance data

| Temperature Range | -30°C to +50°C |
|---------------------------------|---|
| Durability | 10,000 mating cycles min |
| Sealing Requirements | IP 44 min per IEC 61851-1 and tested in accordance with IEC 60525 |
| Certifications Connector | CE, ETL, IEC 62196-1 and IEC 62196-2 |
| Certifications Cable | DIN EN 50620 |

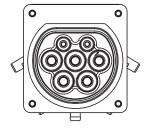
Key Features

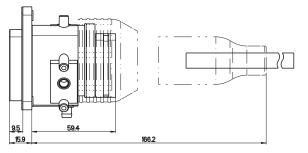
- Drain holes at the bottom of the coupler connector/plug eliminates latch freezing and includes protective shield from small diameter metal penetration to the wiring.
- Textured coupler connector/plug handle provides enhanced grip while in use.
- Optional mating face protection lanyard dust caps options for coupler connector/plug and spring cap options for inlets provide additional protection when connectors are not in use.



ECIER Outlet







| How to order | ECIER | 20 | 2 | 1 | -017 | S | 2 | А | 1 | А | 0 | А | 0 | -001 |
|---|-----------|----|---|---|------|---|---|---|---|---|---|---|---|------|
| Connector Series & Style | | | | | | | | | | | | | | |
| Current Rating (Cable size) | | | | | | | | | | | | | | |
| Cable Rating | | | | | | | | | | | | | | |
| Powering System (Connector Voltage Rati | ng) | | | | | | | | | | | | | |
| Cable Length (3 Digits) | | | | | | | | | | | | | | |
| Sealing Method | | | | | | | | | | | | | | |
| Compression Limiter / Metal Inserts in Flar | nge Holes | | | | | | | | | | | | | |
| Dust Cap / Spring Cap | | | | | | | | | | | | | | |
| Drain Spout | | | | | | | | | | | | | | |
| Locking Device | | | | | | | | | | | | | | |
| Rubber Boot | | | | | | | | | | | | | | |
| Mounting Hole Pattern | | | | | | | | | | | | | | |
| Flange Gasket | | | | | | | | | | | | | | |
| Modification Code - If Applicable (3 digits |) | | | | | | | | | | | | | |

Explanation _

Connector Series & style

ECIER - EVC IEC 62196 Type 2 Connector EVSE Rear mount inlet

Current Rating (Cable size)

20A, 32A, 63A **Cable Rating**

2 - Level 2

Powering System (Connector Voltage Rating) 1 - Single phase (240VAC)

3 - Three phase (480VAC)

Cable Length (3 Digits)

XXX - Length in 0.1m*XXX (017 = 1.7m)

Sealing Method

S - Sealed

Compression Limiter / Metal Inserts in Flange Holes

- 0 Without compression limiter/inserts
- 1 Compression limiter (front mounting)
- 2 Compression limiter with threaded inserts M4 (front mounting)

Dust Cap / Spring Cap

- A No dust cap supplied **C** -
- Dust cap stainless steel lanyard (155mm) D - Dust cap stainless steel lanyard (125mm)
- Dust cap PA lanyard (155mm)
- Ε-
- With mounting ring thin (to be used with mounting Кhole pattern "B" only) (metal inserts M4)
- With mounting ring (to be used with mounting hole pattern "B" only) (metal inserts M4)
- M Dust cap PA lanyard, ring terminal (125mm)
- N Dust cap PA lanyard (125mm)

Drain Spout

- **0** Without drain spout
- Without drain spout
 1 With drain spout, without tube
 2 With drain spout with tube; 1m long
- 3 With drain spout with tube, 2m long

Locking Device

- A No locking device
- B Motorized switch assembly
- (No male connector supplied for locking). С-
- Motorized switch assembly including connector & 300mm cable

- D Motorized switch assembly including connector & 300mm cable & socket contacts on single wires
- Ε-Solenoid 12VDC assembly (cable length 250mm)
- F Solenoid 24VDC assembly (cable length 250mm)
- G Solenoid 12VDC assembly (same as cable length)
- H Solenoid 24VDC assembly (same as cable length)

Rubber Boot

0 - No rubber boot supplied

- Mounting Hole Pattern
- **B** 58x61mm

C - 52x52mm

Flange Gasket

- 0 No flange gasket supplied.1 With flange gasket

Modification Code - If Applicable (3 digits) 001 to 999 - For customer specific modification



ECCE Plug

| How to order | ECCE | 20 | 2 | 1 | -017 | S | 0 | Α | -ECCV | 0 | А | -001 |
|--------------------------------------|------------|----|---|---|------|---|---|---|-------|---|---|------|
| Connector Series & Style | | | | | | | | | | | | |
| Current Rating (Cable size) | | | | | | | | | | | | |
| Cable Rating | | | | | | | | | | | | |
| Powering System (Connector Voltag | je Rating) | | | | | | | | | | | |
| Cable Length (3 Digits) | | | | | | | | | | | | |
| Sealing Method | | | | | | | | | | | | |
| Direction of Cable Strain Relief | | | | | | | | | | | | |
| Dust Cap | | | | | | | | | | | | |
| Modification Code (4 Letters) | | | | | | | | | | | | |
| Direction of Cable Outlet | | | | | | | | | | | | |
| Dust Cap | | | | | | | | | | | | |
| Modification Code - If Applicable (3 | diaits) | | | | | | | | | | | |

Explanation _

Connector Series & style

ECCE - EVC IEC 62196 Type 2 mode 3 connection cable EVSE coupler to vehicle coupler

Current Rating (Cable size)

20A, 32A, 63A

Cable Rating 2 - Level 2

Powering System (Connector Voltage Rating)

1 - Single phase (240VAC)3 - Three phase (480VAC)

Cable Length (3 Digits)

XXX - Length in 0.1 m^{*} XXX (017 = 1.7m)

Sealing Method

S - Sealed

Direction of strain relief ECCE

0 - Straight cable strain relief

1 - Angled cable strain relief (90° Downwards) (not for 63A)

Dust Cap

- A No dust cap supplied
- **B** Dust cap rubber lanyard (187mm)
- C Dust cap stainless steel lanyard (155mm)
- **D** Dust cap stainless steel lanyard (125mm)
- E Dust cap PA lanyard (155mm)

F - Dust cap PA lanyard (125mm)

Modification Code (4 Letters) ECCV - Connection cable IEC type 2

connector on 2-end

GBCV - Connection cable GBCV connector on 2-end EJCV - Connection cable IEC type 1 connector on 2-end (same connector as J2CE) only 1 phase existing

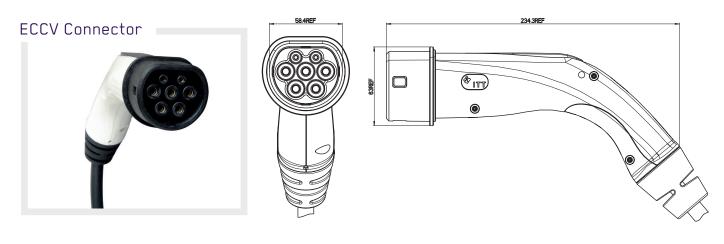
Direction of strain relief of second connector 0 - Straight cable strain relief

Angled cable strain relief (90° Downwards) (not for 63A)

Dust Cap

- A No dust cap supplied
- **B** Dust cap rubber lanyard (only for GBCV at second end)
- **C** Dust cap stainless steel lanyard (155mm)
- **D** Dust cap stainless steel lanyard (125mm)
- E Dust cap PA lanyard (155mm)
- F Dust cap PA lanyard (125mm)





How to order ECCV -001 20 -017 0 Connector Series & Style Current Rating (Cable size) Cable Rating Powering System (Connector Voltage Rating) Cable Length (3 Digits) Sealing Method Direction of Cable Strain Relief Dust Cap Modification Code - If Applicable (3 digits)

Explanation

Connector Series & style ECCV - EVC IEC 62196 Type 2 Connector vehicle coupler

Current Rating (Cable size)

20A, 32A, 63A

Cable Rating 2 - Level 2

Powering System (Connector Voltage Rating)

1 - Single phase (240VAC) 3 - Three phase (480VAC)

Cable Length (3 Digits)

XXX - Length in 0.1m*XXX (017 = 1.7m) Sealing Method

S - Sealed

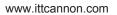
- Direction of Cable Strain Relief
- 0 Straight cable strain relief
- 1 Angled cable strain relief (90° Downwards)

Dust Cap

A - No dust cap supplied

- C Dust cap stainless steel lanyard (155mm).
- **D** Dust cap stainless steel lanyard (125mm)
- E Dust cap PA lanyard (155mm)
- F Dust cap PA lanyard (125mm)

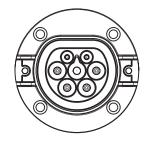
Modification Code - If Applicable (3 digits) 001 to 999 - For customer specific modification

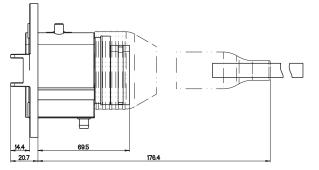




ECIV Inlet







| How to order | ECIV | 20 | 2 | 1 | -017 | S | 1 | А | 1 | Α | 0 | А | 0 | -001 |
|---|---------|----|---|---|------|---|---|---|---|---|---|---|---|------|
| Connector Series & Style | | | | | | | | | | | | | | |
| Current Rating (Cable size) | | | | | | | | | | | | | | |
| Cable Rating | | | | | | | | | | | | | | |
| Powering System (Connector Voltage Rating |) | | | | | | | | | | | | | |
| Cable Length (3 Digits) | | | | | | | | | | | | | | |
| Sealing Method | | | | | | | | | | | | | | |
| Compression Limiter / Metal Inserts in Flange | e Holes | | | | | | | | | | | | | |
| Dust Cap / Spring Cap | | | | | | | | | | | | | | |
| Drain Spout | | | | | | | | | | | | | | |
| Locking Device | | | | | | | | | | | | | | |
| Rubber Boot | | | | | | | | | | | | | | |
| Mounting Hole Pattern | | | | | | | | | | | | | | |
| Flange Gasket | | | | | | | | | | | | | | |
| Modification Code - If Applicable (3 digits) | | | | | | | | | | | | | | |

Explanation

Connector Series & style ECIV - EVC IEC 62196 Type 2 Connector vehicle inlet

Current Rating (Cable size)

2 - Level 2

Powering System (Connector Voltage Rating) 1 - Single phase (240VAC)

3 - Three phase (480VAC)

Cable Length (3 Digits)

XXX - Length in 0.1m*XXX (017 = 1.7m)

Sealing Method S - Sealed

- Compression Limiter / Metal Inserts in Flange Holes 0 - Without compression limiter/inserts
- 1 -Compression limiter (front mounting)
- Compression limiter with threaded inserts M4 2 -
- (front mounting)
- 3 Compression limiter with threaded inserts M5 (front mounting)

Dust Cap / Spring Cap

- A No dust cap supplied C - Dust cap stainless steel lanyard (155mm)
- **D** Dust cap stainless steel lanyard (125mm)
- E Dust cap PA lanyard (155mm)
- G With spring cap (Opening to left)
- H With spring cap (Opening to the right)
- M Dust Cap PA Lanyard, ring terminal (125mm)
- N Dust cap PA lanyard (125mm)

Drain Spout

- 0 Without drain spout.
- With drain spout, without tube 1 -
- 2 -With drain spout with tube; 1m long
- 3 With drain spout with tube, 2m long

Locking Device

- A No locking device
- **B** Motorized switch assembly
- (No male connector supplied for locking device) C - Motorized switch assembly including connector
- and 300mm cable
- D Motorized switch assembly including connector and 300mm cable & socket contacts on single wires

Rubber Boot

0 - No rubber boot supplied

Mounting Hole Pattern A - Standard pattern

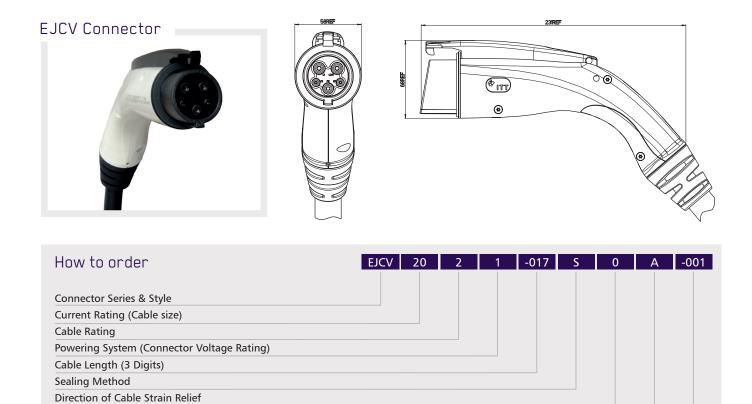
Flange Gasket

0 - No flange gasket supplied

Modification Code - If Applicable (3 digits) 001 to 999 - For customer specific modification



20A, 32A, 63A **Cable Rating**



Explanation _

Dust Cap

Connector Series & style EJCV - EVC IEC 62196 Type 1 Connector vehicle coupler Current Rating (Cable size)

Modification Code - If Applicable (3 digits)

20A, 32A Cable Rating

2 - Level 2

Powering System (Connector Voltage Rating) 1 - Single phase (240VAC) Cable Length (3 Digits) XXX - Length in 0.1m*XXX (017 = 1.7m)

Sealing Method S - Sealed

Direction of Cable Strain Relief 0 - Straight cable strain relief

Dust Cap

A - No dust cap supplied

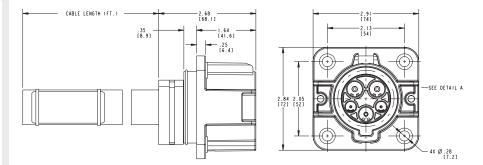
- C Dust cap stainless steel lanyard (155mm)
- D Dust cap stainless steel lanyard (125mm)
- E Dust cap PA lanyard (155mm)
- F Dust cap PA lanyard (125mm)

Modification Code - If Applicable (3 digits) 001 to 999 - For customer specific modification



EJIV Inlet





| How to order | EJIV | 20 | 2 | 1 | -017 | S | 0 | Α | 0 | А | 0 | А | 0 | -00 |
|--|---------|----|---|---|------|---|---|---|---|---|---|---|---|-----|
| Connector Series & Style | | | | | | | | | | | | | | |
| Current Rating (Cable size) | | | | | | | | | | | | | | |
| Cable Rating | | | | | | | | | | | | | | |
| Powering System (Connector Voltage Rating | a) | | | | | | | | | | | | | |
| Cable Length (3 Digits) | ,, | | | | | | | | | | | | | |
| Sealing Method | | | | | | | | | | | | | | |
| Compression Limiter / Metal Inserts in Flang | e Holes | | | | | | | | | | | | | |
| Dust Cap / Spring Cap | | | | | | | | | | | | | | |
| Drain Spout | | | | | | | | | | | | | | |
| Locking Device | | | | | | | | | | | | | | |
| Rubber Boot | | | | | | | | | | | | | | |
| Mounting Hole Pattern | | | | | | | | | | | | | | |
| Flange Gasket | | | | | | | | | | | | | | |
| Modification Code - If Applicable (3 digits) | | | | | | | | | | | | | | |

Explanation _

Connector Series & style EJIV - EVC IEC 62196 Type 1 Connector vehicle inlet Current Rating (Cable size) 20A, 32A

Cable Rating

2 - Level 2

Powering System (Connector Voltage Rating) 1 - Single phase (240VAC)

Cable Length (3 Digits) XXX - Length in 0.1m*XXX (017 = 1.7m) Sealing Method

S - Sealed

Compression Limiter / Metal Inserts in Flange Holes

- **0** Without compression limiter/inserts
- 1 Compression limiter (front mounting)
- 3 Compression limiter with threaded inserts M5 (front mounting)

Dust Cap / Spring Cap

- A No dust cap supplied **G** With spring cap (Opening to left)
- H With spring cap (Opening to right)
- Drain Spout

0 - Without drain spout

Locking Device

A - No locking device

Rubber Boot

0 - No rubber boot supplied

Mounting Hole Pattern

A - Standard pattern Flange Gasket 0 - No flange gasket supplied Modification Code - If Applicable (3 digits) 001 to 999 - For customer specific modification



SAE J1772 electric vehicle charging solutions

ITT's SAE J1772 e-mobility solutions are built in accordance with SAE J1772 standard for AC Level 1 and Level 2 charging systems.

J1772 performance data

| Temperature Range | -30°C to +50°C |
|--------------------------|------------------------------|
| Durability | 10,000 mating cycles min |
| Sealing Requirements | Meets UL50, Type 3R/3S |
| Certifications Connector | UL File E330790, CE, PSE-JET |
| Certifications Cable | UL62 or JET |

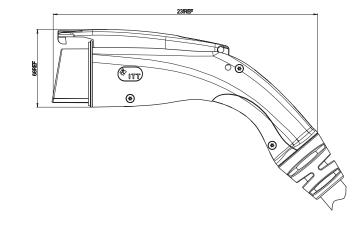
J2CE Connector





Key Features

- Drain holes at the bottom of the coupler connector/plug eliminates latch freezing and includes protective shield from small diameter metal penetration to the wiring.
- Textured coupler connector/plug handle provides enhanced grip while in use.
- Optional mating face protection lanyard dust caps options for coupler connector/plug and spring cap options for inlets provide additional protection when connectors are not in use.



| How to order | J2CE 16 | 1 | 1 | -17 | S | 0 | A | -001 |
|--|---------|---|---|-----|---|---|---|------|
| Connector Series & Style | | | | | | | | |
| Current Rating (Cable size) | | | | | | | | |
| Cable Rating | | | | | | | | |
| Powering System (Connector Voltage Rating) | | | | | | | | |
| Cable Length (2 Digits) | | | | | | | | |
| Sealing Method | | | | | | | | |
| Direction of Cable Strain Relief | | | | | | | | |
| Dust Cap | | | | | | | | |
| Modification Code - If Applicable (3 digits) | | | | | | | | |

Explanation .

Connector Series & style

J2CE - EVC SAE-J1772 Connector vehicle coupler

Current Rating (Cable size) 16 - 16A (level 1 only)

- **20** 20A
- **30** 30A (level 2 only) **40** - 40A (level 2 only)
- 75 75A (level 2 only)
- 80 80A (level 2 only)

Cable Rating 1 - Level 1

2 - Level 2

Dimensions shown in mm Specifications and dimensions subject to change

Powering System (Connector Voltage Rating)

1 - Single phase (120VAC for level 1, 240VAC for level 2) Cable Length (2 digits)

XX - Length in ft. (17 = 17ft.) Sealing Method

S - Sealed

- Direction of Cable Strain Relief
- 0 Straight cable strain relief

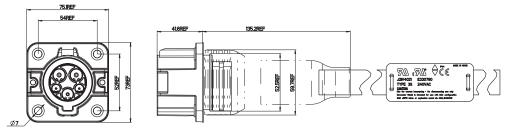
Dust Cap

- A No dust cap supplied
- **C** Dust cap stainless steel lanyard (6.1in)
- D Dust cap stainless steel lanyard (4.9in)E Dust cap PA lanyard (6.1in)
- **F** Dust cap PA lanyard (6.1in)



J2IV Inlet





| How to order | J2IV 20 | 2 | 1 | -17 | S | 1 | А | 0 | А | 0 | А | 0 | -001 |
|--|---------|---|---|-----|---|---|---|---|---|---|---|---|------|
| Connector Series & Style | | | | | | | | | | | | | |
| Current Rating (Cable size) | | | | | | | | | | | | | |
| Cable Rating | | | | | | | | | | | | | |
| Powering System (Connector Voltage Rating |) | | | | | | | | | | | | |
| Cable Length (2 Digits) | | | | | | | | | | | | | |
| Sealing Method | | | | | | | | | | | | | |
| Compression Limiter / Metal Inserts in Flang | e Holes | | | | | | | | | | | | |
| Dust Cap / Spring Cap | | | | | | | | | | | | | |
| Drain Spout | | | | | | | | | | | | | |
| Locking Device | | | | | | | | | | | | | |
| Rubber Boot | | | | | | | | | | | | | |
| Mounting Hole Pattern | | | | | | | | | | | | | |
| Flange Gasket | | | | | | | | | | | | | |
| Modification Code - If Applicable (3 digits) | | | | | | | | | | | | | |

Explanation .

Connector Series & style

J2IV - EVC SAE-J1772 Connector vehicle inlet Current Rating (Cable size)

20 - 20A

- **40** 40A (level 2 only) **75** 75A (level 2 only) **80** 80A (level 2 only)
- Cable Rating

1 - Level 1 **2** - Level 2

Powering System (Connector Voltage Rating) 1 - Single phase (120V AC for level 1, 240VAC for levels 2)

Cable Length (2 Digits) **XX** - Length in ft. (17 = 17 ft)

Sealing Method

S - Sealed

Compression Limiter / Metal Inserts in Flange Holes

- Compression Limiter / Metal Inserts in Flange I
 O Without compression limiter/inserts
 1 Compression limiter (front mounting)
 3 Compression limiter with threaded inserts M5 (front mounting)
 Dust Cap / Spring Cap
 A No dust can supplied

- A No dust cap supplied.
- ${\bf G}$ With spring cap (Opening to left)
- H With spring cap (Opening to right)

Drain Spout 0 - Without drain spout

Locking Device

A - No locking device

Rubber Boot

0 - No rubber boot supplied

Mounting Hole Pattern

A - Standard pattern

Flange Gasket 0 - No flange gasket supplied

Modification Code - If Applicable (3 digits)

001 to 999 - For customer specific modification





GB/T electric vehicle charging solutions

ITT's GB e-mobility solutions are built in accordance with GB-T 20234 standards for charging systems.

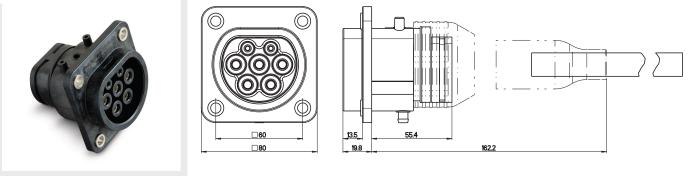
GB performance data

| Temperature Range | -30°C to +50°C |
|---------------------------------|--------------------------|
| Durability | 10,000 mating cycles min |
| Sealing Requirements | IP54/IP55 |
| Certifications Connector | CQC 13029087619 |
| Certifications Cable | CQC 1103 or 1104 |

Key Features

- Drain holes at the bottom of the coupler connector/plug eliminates latch freezing and includes protective shield from small diameter metal penetration to the wiring.
- Textured coupler connector/plug handle provides enhanced grip while in use.
- Optional mating face protection lanyard dust caps options for coupler connector/plug and spring cap options for inlets provide additional protection when connectors are not in use.

GBIE Outlet



| How to order | GBIE | 16 | 2 | 1 | -017 | S | 0 | А | 1 | А | 0 | А | 0 | -001 |
|--|---------|----|---|---|------|---|---|---|---|---|---|---|---|------|
| Connector Series & style | | | | | | | | | | | | | | |
| Current Rating (Cable size) | | | | | | | | | | | | | | |
| Cable Rating | | | | | | | | | | | | | | |
| Powering System (Connector Voltage Rating | g) | | | | | | | | | | | | | |
| Cable Length (3 Digits) | | | | | | | | | | | | | | |
| Sealing Method | | | | | | | | | | | | | | |
| Compression Limiter / Metal Inserts in Flang | e Holes | | | | | | | | | | | | | |
| Dust Cap / Spring Cap | | | | | | | | | | | | | | |
| Drain Spout | | | | | | | | | | | | | | |
| Locking Device | | | | | | | | | | | | | | |
| Rubber Boot | | | | | | | | | | | | | | |
| Mounting Hole Pattern | | | | | | | | | | | | | | |
| Flange Gasket | | | | | | | | | | | | | | |
| Modification Code - If Applicable (3 digits) | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Explanation

Connector Series & style

GBIE - EVC GB/T 20234 Connector EVSE inlet Current Rating (Cable size)

10 - 10A (1 phase only) **16** - 16A **32** - 32A

Cable Rating

2 - Level 2 Powering System (Connector Voltage Rating)

1 - Single phase (250VAC) 3 - Three phase (440VAC)

Cable Length (3 Digits)

XXX - Length in 0.1m*XXX (017 = 1.7m)

Sealing Method S - Sealed

Compression Limiter / Metal Inserts in Flange Holes

- 0 Without compression limiter/inserts
- 1 Compression limiter (front mounting)
- 3 Compression limiter with threaded inserts M5 (front mounting)

Dust Cap / Spring Cap

- A No dust cap supplied
- C Dust cap stainless steel lanyard (155mm)
 D Dust cap stainless steel lanyard (125mm)
- E Dust cap PA lanyard (155mm)
 F Dust cap without lanyard, Sealing on OD
- M Dust Cap PA Lanyard, ring terminal (125mm)
- N Dust cap PA lanyard (125mm)

Drain Spout

- 0 Without drain spout
- 1 With drain spout without tube
- 2 With drain spout with tube; 1m long
- 3 With drain spout with tube, 2m long

Locking Device

- A No locking device B - Motorized switch assembly (No male connector supplied for locking device).
- C Motorized switch assembly including connector & 300mm cable
- D Motorized switch assembly including connector & 300mm cable & socket contacts on single wires
- E Solenoid 12VDC assembly (cable length 250mm)

- F Solenoid 24VDC assembly (cable length 250mm)
- ${\bf G}$ Solenoid 12VDC assembly (same as cable length) H - Solenoid 24VDC assembly (same as cable length)

Rubber Boot

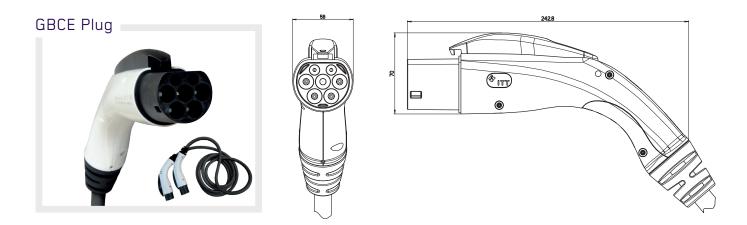
0 - No rubber boot supplied

Mounting Hole Pattern

A - Standard pattern Flange Gasket

0 - No flange gasket supplied





| How to order | GBCE | 16 | 2 | 1 | -017 | S | 0 | A | -ECCV | 0 | Α | -001 |
|--------------------------------------|--------------|---------|---|---|------|---|---|---|-------|---|---|------|
| Connector Series & Style | | | | | | | | | | | | |
| Current Rating (Cable size) | | | | | | | | | | | | |
| Cable Rating | | | | | | | | | | | | |
| Powering System (Connector Voltage | e Rating) | | | | | | | | | | | |
| Cable Length (3 Digits) | | | | | | | | | | | | |
| Sealing Method | | | | | | | | | | | | |
| Direction of Cable Strain Relief | | | | | | | | | | | | |
| Dust Cap | | | | | | | | | | | | |
| Modification Code for mode 3 comb | ination (4 L | etters) | | | | | | | | | | |
| Direction of Cable Strain Relief | | | | | | | | | | | | |
| Dust Cap | | | | | | | | | | | | |
| Modification Code - If Applicable (3 | diaits) | | | | | | | | | | | |

Explanation

Connector Series & style

GBCE - EVC GB/T 20234 MODE 3 connection cable EVSE coupler to vehicle coupler

Current Rating (Cable size)

- 10 10A (1 phase only) 16 - 16A
- **32** 32A

Cable Rating

2 - Level 2

Power System (Connector Voltage Rating)

1 - Single phase (250VAC)3 - Three phase (440VAC)

Cable Length (3 Digits)

XXX - Length in 0.1m*XXX (017 = 1.7m)

Sealing Method

 $\boldsymbol{\mathsf{S}}$ - Sealed

Direction of Cable Strain Relief

0 - Straight cable strain relief

Dust Cap

- A No dust cap supplied
- B Dust cap rubber lanyard
- C Dust cap stainless steel lanyard (155mm)
- **D** Dust cap stainless steel lanyard (125mm)
- E Dust cap PA lanyard (155mm)
- F Dust cap PA lanyard (125mm)

Modification Code for mode 3 combination (4 Letters)

- **ECCV** Connection cable IEC type 2 connector on 2-end
- **GBCV** Connection cable GBCV connector on 2-end **EJCV** - Connection cable IEC type 1 connector on 2-end
- (same connector as J2CE) J2CE - Connection cable SAE-J1772 connector 2-end
 - CE Connection cable SAE-J1772 connector (same connector as EJCV)

Direction of Cable Strain Relief

0 - Straight cable strain relief

Dust Cap

- A No dust cap supplied
- **B** Dust cap rubber lanyard
- ${\bf C}$ Dust cap stainless steel lanyard (155mm)
- D Dust cap stainless steel lanyard (125mm)
- E Dust cap PA lanyard (155mm)
- F Dust cap PA lanyard (125mm)

Modification Code - If Applicable (3 digits)

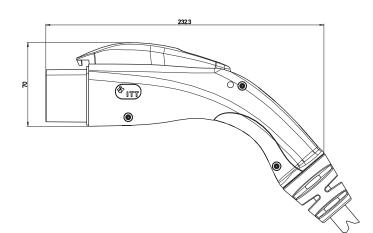
001 to 999 - For customer specific modification



GBCV Connector







| How to order | GBCV 16 | 2 | 1 | -017 | S | 0 | Α | -001 |
|--|---------|---|---|------|---|---|---|------|
| Connector Series & Style | | | | | | | | |
| Current Rating (Cable size) | | | | | | | | |
| Cable Rating | | | | | | | | |
| Powering System (Connector Voltage Rating) | | | | | | | | |
| Cable Length (3 Digits) | | | | | | | | |
| Sealing Method | | | | | | | | |
| Direction of Cable Strain Relief | | | | | | | | |
| Dust Cap | | | | | | | | |
| Modification Code - If Applicable (3 digits) | | | | | | | | |

Explanation _

Connector Series & style GBCV - EVC GB/T 20234 Connector vehicle coupler Current Rating (Cable size)

10 - 10A (1 phase only)

16 - 16A **32** - 32A **Cable Rating** 2 - Level 2

Powering System (Connector Voltage Rating)

1 - Single phase (250VAC) 3 - Three phase (440VAC)

Cable Length (3 Digits) XXX - Length in 0.1m*XXX (017 = 1.7m)

Sealing Method

S - Sealed

Direction of Cable Strain Relief

0 - Straight cable strain relief

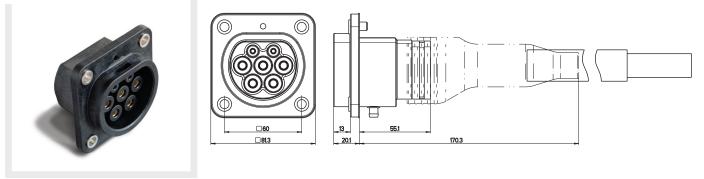
Dust Cap

A - No dust cap supplied

- B Dust cap rubber lanyard
- C Dust cap stainless steel lanyard (155mm)
- D Dust cap stainless steel lanyard (125mm)
 E Dust cap PA lanyard (155mm)
- F Dust cap PA lanyard (125mm)



GBIV Inlet



| How to order | GBIV 16 | 2 | 1 | -017 | S | 0 | Α | 1 | А | 0 | А | 0 | -001 |
|--|---------|---|---|------|---|---|---|---|---|---|---|---|------|
| Connector Series & Style | | | | | | | | | | | | | |
| Current Rating (Cable size) | | | | | | | | | | | | | |
| Cable Rating | | | | | | | | | | | | | |
| Powering System (Connector Voltage Rating | 1) | | | | | | | | | | | | |
| Cable Length (3 Digits) | | | | | | | | | | | | | |
| Sealing Method | | | | | | | | | | | | | |
| Compression Limiter / Metal Inserts in Flang | e Holes | | | | | | | | | | | | |
| Dust Cap / Spring Cap | | | | | | | | | | | | | |
| Drain Spout | | | | | | | | | | | | | |
| Locking Device | | | | | | | | | | | | | |
| Rubber Boot | | | | | | | | | | | | | |
| Mounting Hole Pattern | | | | | | | | | | | | | |
| Flange Gasket | | | | | | | | | | | | | |
| Modification Code - If Applicable (3 digits) | | | | | | | | | | | | | |

Explanation

Connector Series & style

GBIV - EVC GB/T 20234 Connector vehicle inlet

- **Current Rating (Cable size) 10** - 10A (1 phase only) **16** - 16A
- **32** 32A

Cable Rating

2 - Level 2

Powering System (Connector Voltage Rating)

1 - Single phase (250VAC) 3 -Three phase (440VAC)

Cable Length (3 Digits)

XXX - Length in $0.1m^*XXX$ (017 = 1.7m)

Sealing Method S - Sealed

Compression Limiter / Metal Inserts in Flange Holes

- 0 Without compression limiter/inserts
- 1 Compression limiter (front mounting)
- **3** Compression limiter with threaded inserts M5 (front mounting)

Dust Cap / Spring Cap

- A No dust cap supplied
- C Dust cap stainless steel lanyard (155mm) D - Dust cap stainless steel lanyard (125mm)
- **E** Dust cap PA lanyard (155mm)
- **F** Dust cap without lanyard for OD
- M Dust Cap PA Lanyard, ring terminal (125mm)
- N Dust cap PA lanyard (125mm)

Drain Spout

- 0 Without drain spout
- 1 With drain spout without tube
- 2 With drain spout with tube; 1m long
- 3 With drain spout with tube, 2m long

Locking Device

- A No locking device
 B Motorized switch assembly (No male connector
- supplied for locking device) C - Motorized switch assembly including connector
 - & 300mm cable
- D Motorized switch assembly including connector & 300mm cable & socket contacts on single wires

Rubber Boot

0 - No rubber boot supplied

Mounting Hole Pattern A - Standard pattern

Flange Gasket

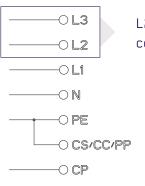
0 - No flange gasket supplied

1 - With flange gasket

Modification Code - If Applicable (3 digits) 001 to 999 - For customer specific modification



EV wiring plans GBCE ECIER/ECIV/GBIE/GBIV -0 L3 L2 and L3 for 3 phase connectors only -0 L2



L2 and L3 for 3 phase connectors only

-O CP ≥_††

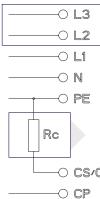
-0 N

-O PE

-O CS/CC/PP

Temparature sensor GBIE/GBIV 32A and 63A only

ECCE/ECCV



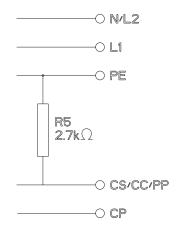
| Current Ratings | Rc |
|------------------------|-----------|
| 20A | 680Ω/0.5W |
| 32A | 220Ω/0.5W |
| 63A | 100Ω/0.5W |

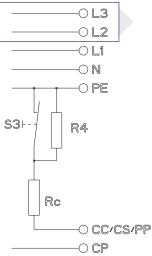
L2 and L3 for 3 phase

connectors only

-O CS/CC/PP

J2IV/EJIV





GBCV/J2CE/EJCV

L2 and L3 for 3 phase

connectors GBCV only

| Current Ratings GBCV | R4 | Rc |
|----------------------|------------|------------|
| 10A | 1.8KΩ/0.5W | 1.5KΩ/0.5W |
| 16A | 2.7KΩ/0.5W | 680Ω/0.5W |
| 32A | 3.3KΩ/0.5W | 220Ω/0.5W |
| 63A | 3.3KΩ/0.5W | 100Ω/0.5W |

| Current Ratings J2CE/EJCV | R4 (R7) | Rc (R6) | | |
|------------------------------|---------|---------|--|--|
| All ratings | 330Ω/1W | 150Ω/3W | | |



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