

Amphenol®



ER Series SAE J1772 Charging Cable/Inlet



Amphenol Industrial Operations

Amphenol Industrial Operations, headquartered in a 30,000 square foot facility in Endicott, N.Y., provides a full range of high reliability power/signal connectors and interconnection systems specifically for the industrial markets including rail/mass transit, process control, automotive manufacturing, heavy equipment, wireless base stations and petrochemical/power generation.

Products include ruggedized-for-industry cylindrical, rectangular, fiber optic, signal and power, RADSOK power and power-to-board solutions, cable and harness assemblies, as well as industrialized versions of Amphenol's SAE AS 50151 cylindrical, MIL-DTL-26482 miniature cylindrical and GT reverse bayonet cylindrical connectors. Amphenol Industrial Operations employs more than 1,400 people globally and is ISO9001, TS96949 and MIL-STD-790 certified.



Amphenol Technology (Zhuhai) Co., Ltd

Established in 2007, Amphenol Technology (Zhuhai) Co., Ltd. is a manufacturing facility for Amphenol Industrial Operations, which serves a number of industrial markets. Included but not limited to Factory Automation, Transportation, Heavy Equipment, Alternative Energy, Energy Storage. Server/Data Comm and Power Distribution.

Amphenol Technology (Zhuhai) Co., Ltd. covers an area of 276,000 ft² and is equipped with CNC, plating, injection molding and assembly workshops. This plant specializes in the design and manufacturing of industrial connectors featuring high power, high density, medium to high voltage electrical properties, and harsh environment applications. With industry leading engineering, design and manufacturing expertise, Amphenol Technology (Zhuhai) Co., Ltd. has earned more than 60 utility patents on its innovative interconnects.

Many of the products produced have been certified by independent standards including UL, IEC/TUV, ATEX, IECEx and MA. The facility is also certified to ISO 9001, ISO 14001 and IATF 16949.

Product Description

AC charging cable with Vehicle Connector and open cable end for charging electric vehicles (EV) with alternating current (AC) via type 1 Vehicle Inlets, for installation at charging stations for E-Mobility (EVSE)

Product Definition

Power Supply type	AC Charging
Connector type	Type1
Powering system	Single phase (120V AC level 1, 250V AC Level2)
Cable rating	level 2
Charging speed	Private and Slow
Mode types	2, 3
Standards/Regulation	SAE J1772 IEC 62196-1/2
Certification	UL2251 E

Mechanical

Mating Cycles	10000+
Insertion/Withdrawal Force	Less Than 75N

Electrical

Voltage Rating Of Power	Up to 250V AC
Current Rating Of Power	20A, 32A, 40A, 50A, 80A

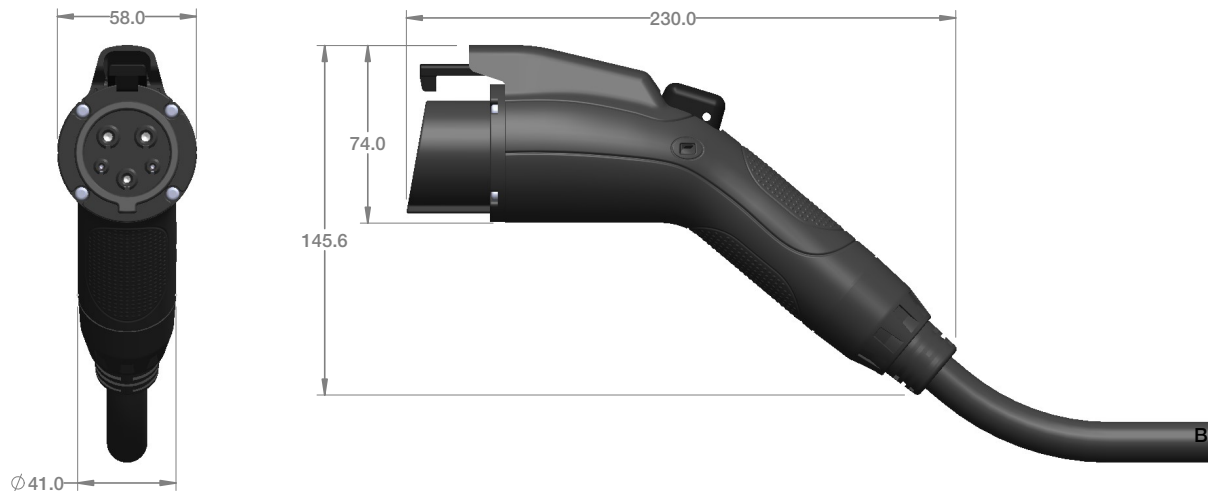
Environmental

Salt Spray	96H
Degree of Protection	Type 3S
Ambient Temperature (Operation)	-30°+50°C
Ambient Temperature (Storage and transport)	-40°+80°C

Material

Shell	PC
Contact	Copper
Sealing	Silicone
Cable	TPE

AC Charging Cable (mm)



How to Order

1.	2.	3.	4.	5.	6.	7.	8.
Product Series	Connector Type	Vehicle Connector	Cable Voltage Rating	Cable Length	Accessories	Lock Hole	Modification
ER	T1	VC	20	15	W	0	(001)

1. Product Series
ER

2. Connector Type
T1 Type 1 (SAE J1772)

3. Vehicle Connector
VC VC: Vehicle Connector (Charging Gun)

4. Cable Voltage Rating
20 20A
32 32A (Level2 250VAC)
40 40A (Level2 250VAC)
50 50A (Level2 250VAC)
80 80A (Level2 250VAC)

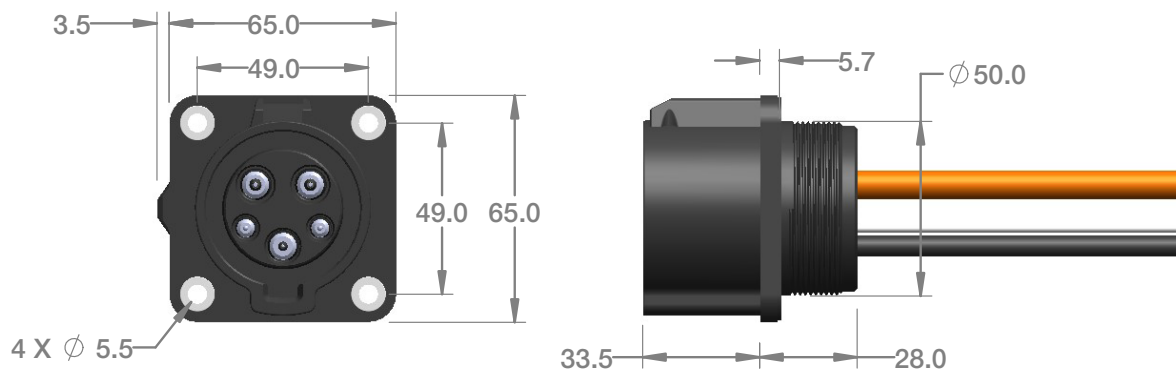
5. Cable Length
15 15 Feet
XX XX feet (1FT=0.3048m)

6. Accessories
W With Cap
N No Cap

7. Lock Hole
0 Without secondary lock hole on the latch
1 With secondary lock hole on the latch (Page 6 view)

8. Modification
(001)-(999) Customer Specific Modification

AC Charging Inlet (mm)



How to Order

1.	2.	3.	4.	5.	6.	7.
Product Series	Connector Type	Vehicle Inlet	Cable Voltage Rating	Cable	Accessories	Modification
ER	T1	VI	20	02	W	(001)

1. Product Series
ER

2. Connector Type
T1 Type 1 (SAE J1772)

3. Vehicle Inlet
VI Vehicle Inlet

4. Cable Voltage Rating
20 20A (Cable Rated Voltage:1000VAC)
40 40A (Cable Rated Voltage:1000VAC)
80 80A (Cable Rated Voltage:1000VAC)

5. Cable
02 2 Feet
XX XX Feet (1FT=0.3048m)
00 No Cable

6. Accessories
W With Cap
N No Cap

7. Modification
(001)-(999) Customer Specific Modification

Accessories



Optional Secondary Lock



Optional Accessory Key
P/N ZH-794151-000



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