

POWERTRAIN SYSTEMS



SAFETY & SECURITY SYSTEMS



CONVENIENCE



DRIVER INFORMATION



BODY & CHASSIS SYSTEMS



AMP+ Charging Cables

INTRODUCTION

The batteries for plug-in hybrid vehicles can be recharged externally, just like those of electric vehicles. TE Connectivity has developed a charging cable that meets requirements of the international charging standard IEC61851-1/-22.

This defines the on-board vehicle type 1 interfaces for the US and Japan, as well as type 2 for Europe.

The latter provides for two charging modes: With mode 2 charging can take place wherever there is no special charging infrastructure available - at home, for example.

If there is a high-performance charging station available, the mode 3 charging cable can be used.

AMP+ Charging Cable Mode 2 Type 1 US

Technical Features

Conductor Cross-Sections:
0.5 mm² / 2.50 mm²

Voltage Range:
99-121V (single phase)

Operation Temperature:
-30 °C and +50 °C

Current Carrying Capacity:
15A

IP Rating:
IP55 ICCB
IP44 connectors plugged to inlet

Norms & Standards:
IEC 61851-1; SAE J 1772

Versions Domestic Plug:
NEMA 5-15

**Temperature Sensor
Domestic Plug:**
Yes



AMP+ Charging Cable Mode 2 Type 1 Japan

Technical Features

Conductor Cross-Sections:
0.5 mm² / 2.50 mm²

Voltage Range:
180-220V

Operation Temperature:
-30 °C and +50 °C

Current Carrying Capacity:
15A

IP Rating:
IP55 ICCB
IP44 connectors plugged to inlet

Norms & Standards:
IEC 61851-1; SAE J 1772

Versions Domestic Plug:
JIS C 8303 A.16

**Temperature Sensor
Domestic Plug:**
Yes



AMP+ Charging Cable Mode 2 Type 2 Europe

Technical Features

Conductor Cross-sections:
0.5 mm² / 2.50 mm²

Voltage Range:
195-260V (single phase)

Operation Temperature:
-30 °C and +50 °C

Current Carrying Capacity:
15A

IP Rating:
IP55 ICCB
IP44 connectors plugged to inlet

Norms & Standards:
IEC 61851-1

Versions domestic plug:
-CEE7/7 90°
-CEE7/7 180°
-CEI 23-16/VII
-BS 1363
-SEV 1011
-AFSNIT 107-2-D1

Temperature sensor domestic plug:
Yes



AMP+ Charging Cable Mode 3 Type 2 / Type 3

Technical Features

Conductor Cross-sections:
0.5 mm² / 2.50 mm²

Voltage Range:
160-240V (single phase)

Operation Temperature:
-30 °C and +50 °C

Current Carrying Capacity:
Type 2 Mode 3: 20A
Type 3 Mode 3: 16A

IP Rating:
IP44 connectors plugged to inlet
or station

Norms & Standards:
IEC 61851-1

