

# DURASWAP™ Connectors

## HIGHLY DURABLE SWAPPABLE DOCKING CONNECTOR

The swappable custom battery connector solutions with cable assemblies are offered in 2 power & 6 signal configurations. These connectors can carry a continuous current of 15A–70A with 10,000 mating cycles and IP67 rated in mated and unmated conditions.

- Contact system can carry upto 70A continuous current and withstand 10,000 mating cycles
- Connector supports blind mating with misalignment of  $\pm 1\text{mm}$
- IP67 rated in mated and unmated condition
- FMLB for power terminals to prevent hot plugging
- Unidirectional mating
- Poka-Yoke to avoid mismating



### TARGET MARKETS



### FEATURES

- Supports 10,000 mating cycles
- Up to 70A of continuous rated current
- 2 Power & 6 Signal configuration
- Guide pins
- UL94V-0-rated housing materials
- Operating temperature from  $-20^{\circ}\text{C}$  to  $+90^{\circ}\text{C}$
- Metal bush for panel fastening

### BENEFITS

- Highly durable
- Efficient charging
- Application flexibility
- Enables blind mating
- Ensures application safety
- Suitable for wide range of application environments
- Takes torque loads for efficient panel IP sealing

## TECHNICAL INFORMATION

### MATERIAL

- Housings: Polyamide Thermoplastic UL94V-0 rated
- Material for Seal: Silicone rubber, UL94 rated
- Terminals: High-Performance Copper Alloy

### MECHANICAL PERFORMANCE

- Mating Cycles: 10000 cycles
- Operating Temperature Range: -20°C to 90°C

### ELECTRICAL PERFORMANCE

- Rated Current: 70A (16SQMM)
- Dielectric Withstanding Voltage: 500VDC
- Insulation Resistance: >1GΩ

### PACKAGING

- Bulk Packaging

### ENVIRONMENTAL

- IP67 (Mated and unmated condition)

### APPROVALS AND CERTIFICATIONS

- UL (employed UL-certified material)

### SPECIFICATION

- Amphenol Product Specification: GS-12-1897
- Amphenol Application Specification: GS-20-0863
- Tested as per IEC TS 63066

### TARGET MARKETS/APPLICATIONS



Swappable Battery

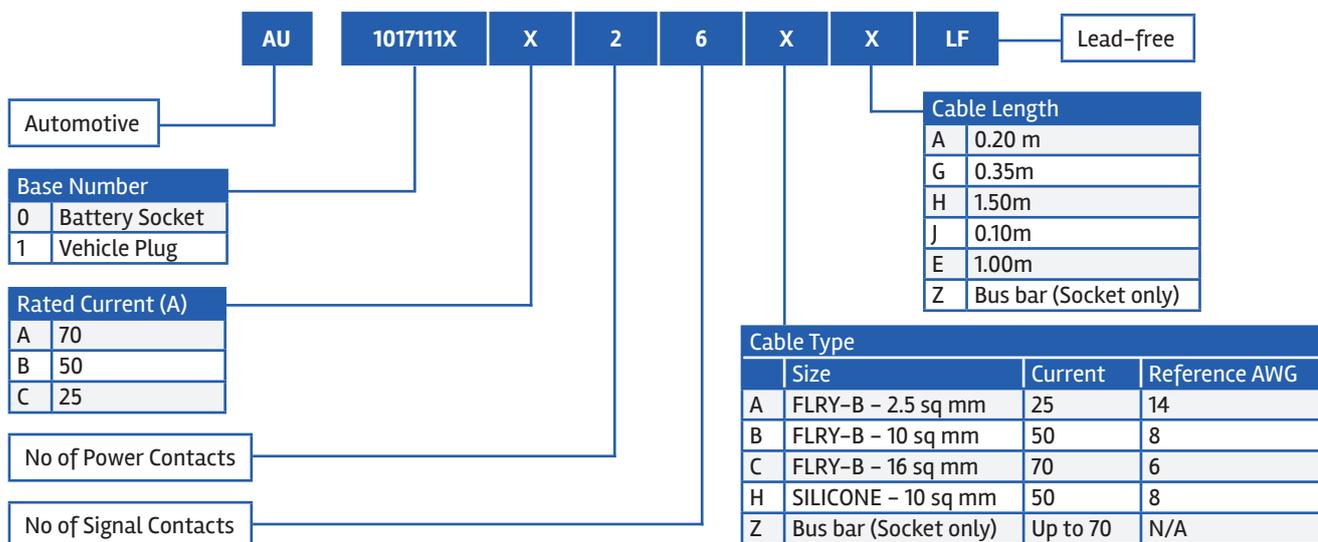


Warehouse



Robotics  
Drone

## PART NUMBER SELECTOR



## PRODUCTS AVAILABLE

### DURASWAP™



## APPLICATION – EV BATTERY CHARGING AND DISCHARGING

### Specifications

- Used in areas where batteries are swappable
- Battery can be mated/unmated blindly without any additional effort
- Mating parts will be on the battery surface and vehicle/charging station
- Mating cycles: 10000
- Power: 2 pin 70A continuous
- Signal: 6 pins

