

ADSB50 Dual pole High Current DC Power Connector Specification

Revision Record

Version	Description	Effective Date	Edited by
00	First release	20181205	Edward

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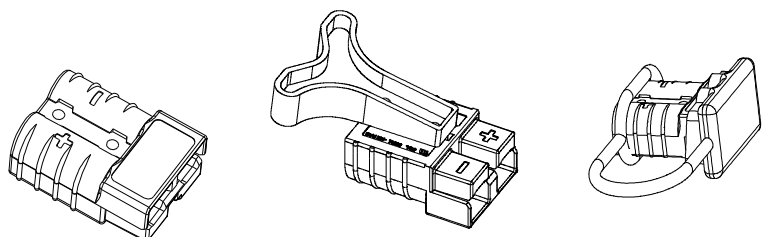
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1. Product Overview

1.1 Description

ADS Aitm series High Current Power Connector is a brand from China, “A” and “B” series identify the single pole and dual pole products, the connectors provide cost-effective quality and reliability, design flexibility and safety, equal the famous brands APP, REMA, TYCO,AMP,SMH and KSJ.

The power connectors are widely application in Military, Avionics, Boat, Yacht, Bus, Vehicles, Golf Cart , Forklift, e-sweeper, all kind of automotive, posts and telecommunications, communications, electricity, solar system, coal, aerospace, defense, surveillance systems, railway signals, medical equipment, instruments and meters, EV Charging system, AGV, IoT, Robot and other automation fields.



1.2 Features

- **Genderless Housings**

Quick and easy assembly

- **Low Resistance Connection**

Silver or tin plated copper contacts inside housings provide tightly connection

- **Support Hot Plug**

Contacts design a sacrificial tip that allows high current circuit interrupt

- **Color identified housings**

Prevent accidental mating at different voltage levels

- **Self-Securing Design**

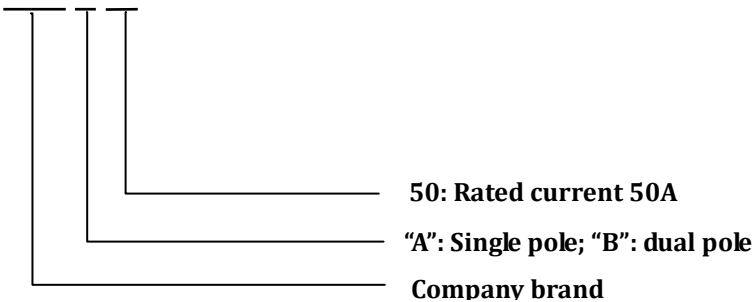
Stainless steel springs create a robust force between the contacts to fix the connector in the mated position

- **Auxiliary or Ground Positions**

Use for signal transmission or promote safety of contacts

1.3 Product Name Definition

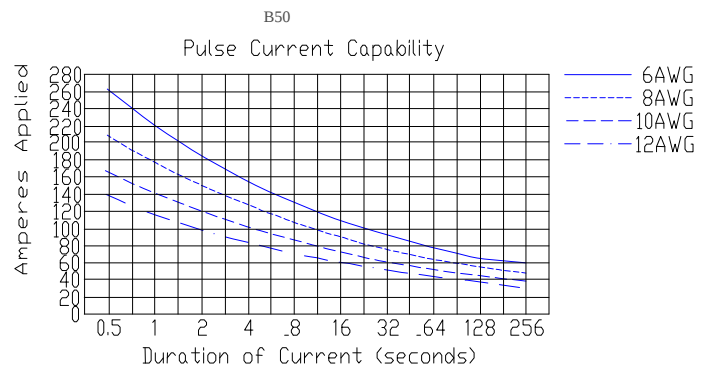
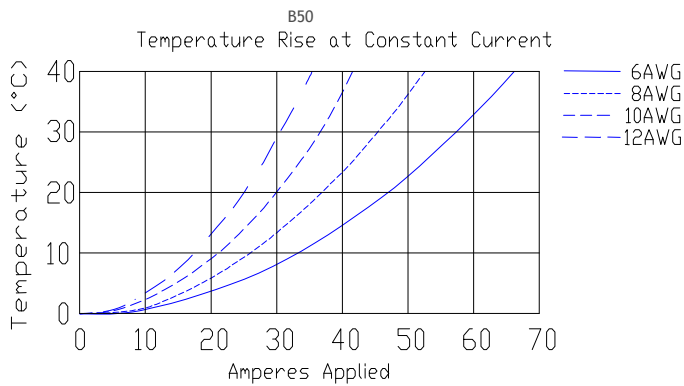
ADSB50



2. Specifications

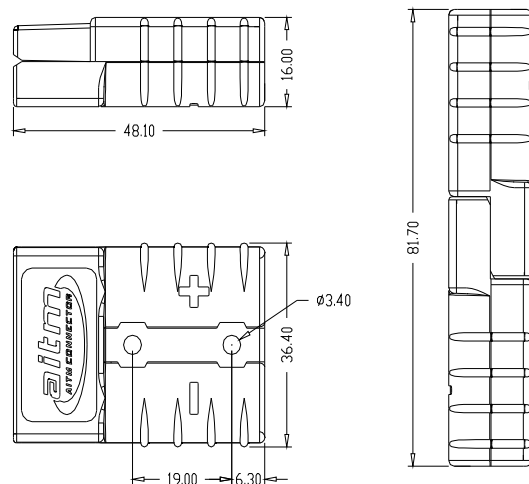
Connector Model		ADSB50
Rated Current	A	50
Rated Voltage	V	600
Contact Barrel Wire Size	AWG/ mm ²	6/10/12AWG (13.3/5.3/3.3mm ²)
Average Contact Resistance	mΩ	0.05
Insulation Withstanding Test Voltage	Vdc	2200
Insulation Resistance	MΩ	>500
No load Contact/Disconnect Cycles	times	>10,000
Under Load (Hot Plug 250 cycles@120V	A	50
Avg. Connect/Disconnect Force	N	53
Operating Temperature Range	C	-20°to 125°
Size	mm	48.1*36.4*16
Flammability Rating of Housing Material		UL94 V-0
Contact material		Silver plated copper

3. Temperature Rise Charts



4. Housings

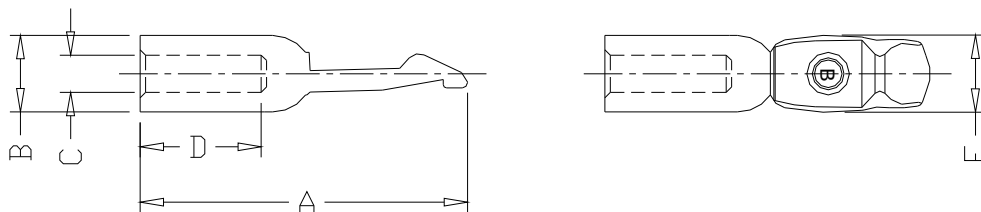
Parts Number	Voltage	Housings Color
SH992G5	12V	Yellow
SH992G7	18V	Orange
SH992G1	24V	Red
SH992	36V	Gray
SH992G4	48V	Blue
SH992G6	72V	Green
SH992G2	80V	Black



NOTE: Black and Gray housings are same type

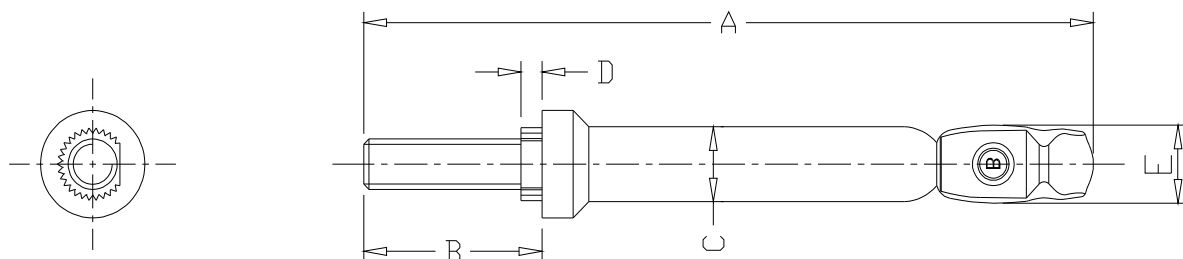
5. Contacts

Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	-E-(mm)	Dia.(AWG\mm ²)
SH5900	31	7.2	5.6	11.4	7.3	6AWG\ 13.3 mm ²
SH5952	31	7.2	4.7	11.4	7.3	8AWG\ 8.4 mm ²
SH5915	31	7.2	3.5	11.4	7.3	10~12AWG\ 3.3~5.3 mm ²



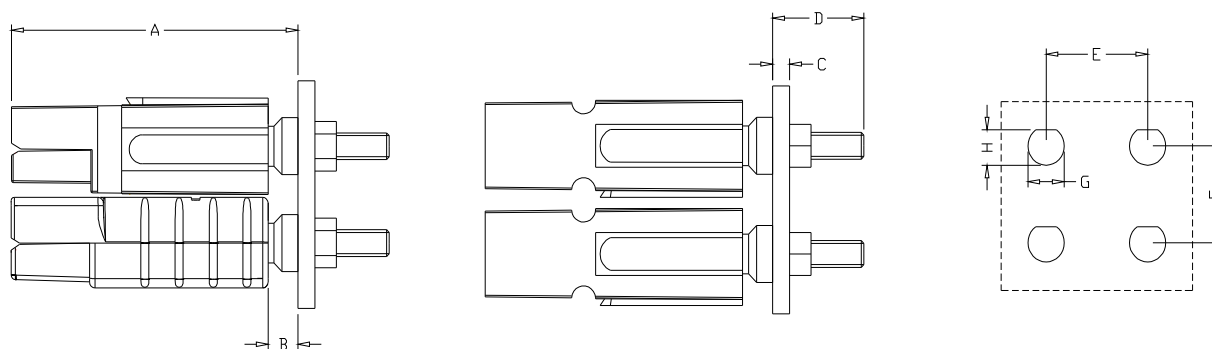
6. Contact Terminal On Board

Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	-E-(mm)
SH5075BBS	70	17.1	7.0	2.0	7.3



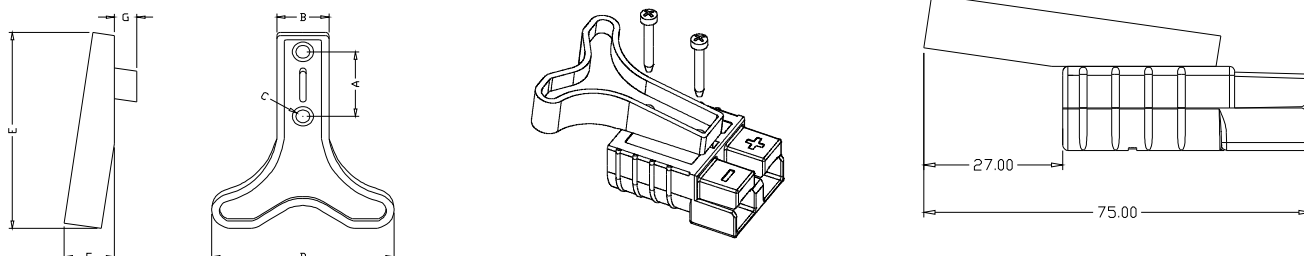
7. Bus Bar Mounting Table

Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	-E-(mm)	-F-(mm)	-G-(mm)	-H-(mm)
SH5075BBS	53.6	5.6	3.2~12.7	17.1	19.0	17.0	6.8	6.2



8.1 Accessories – T Handle

Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	-E-(mm)	-F-(mm)	-G-(mm)	Color
SH113899P1	19.1	14.5	3.5	49.5	57.8	13.5	6.3	RED



8.2 Accessories – Anti Dust Cover

Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	Color
SH134G1	46.5	51.6	27.9	RED

