

ADSB175 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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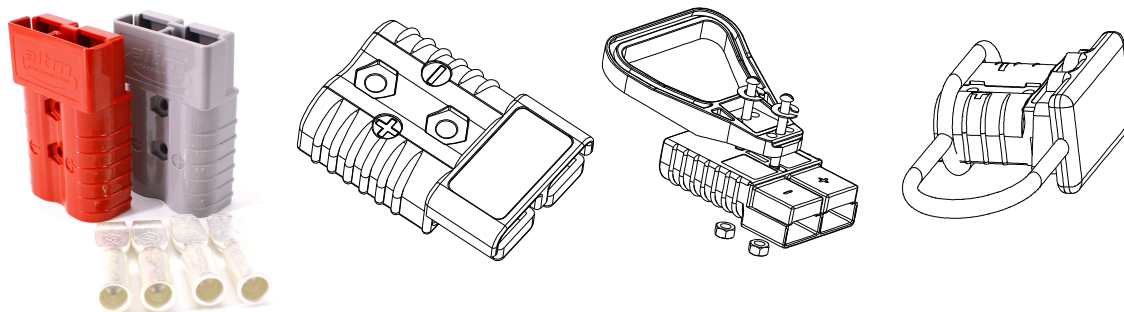
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1. Product Overview

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**

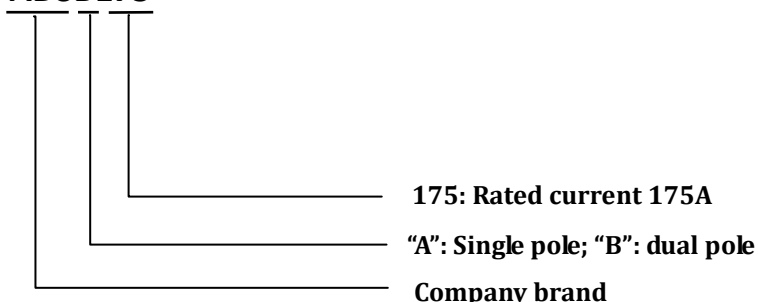
Stainless steel springs create a robust force between the contacts to fix the connector in the mated position

- **Auxiliary or Ground Positions**

Use for signal transmission or promote safety of contacts

1.3 Product Name Definition

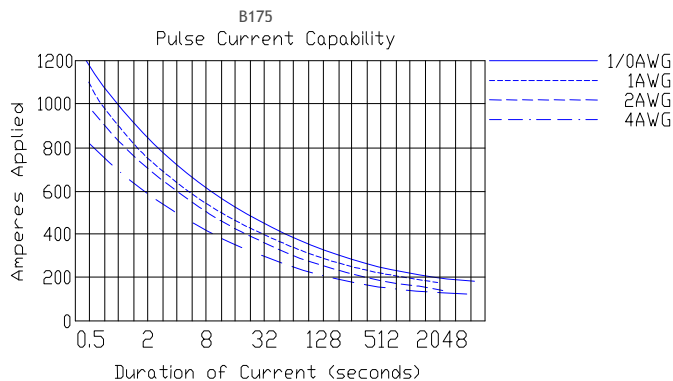
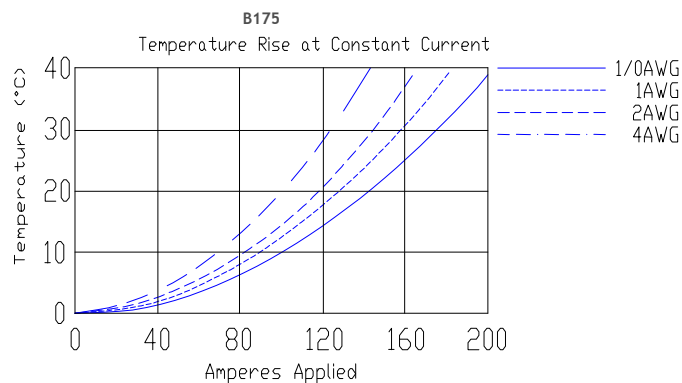
ADSB175



2. Specifications

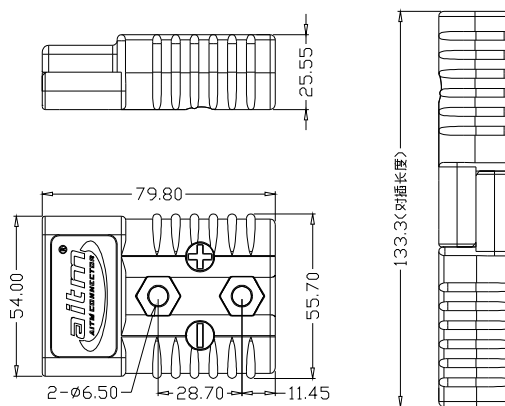
Connector Model		ADSB175
Rated Current	A	175
Rated Voltage	V	600
Contact Barrel Wire Size	AWG/ mm ²	1/0 2/4AWG (53.5mm ² -33.6/21.2mm ²)
Average Contact Resistance	mΩ	0.05
Insulation Withstanding Test Voltage	Vdc	2200
Insulation Resistance	MΩ	>500
No load Contact/Disconnect Cycles	times	>10,000
Under Load (Hot Plug 250 cycles@120V	A	75
Avg. Connect/Disconnect Force	N	110
Operating Temperature Range	C	-20°to 125°
Size	mm	79.8*55.7*25.55
Flammability Rating of Housing Material		UL94 V-0
Contact material		Silver plated copper

3. Temperature Rise Charts



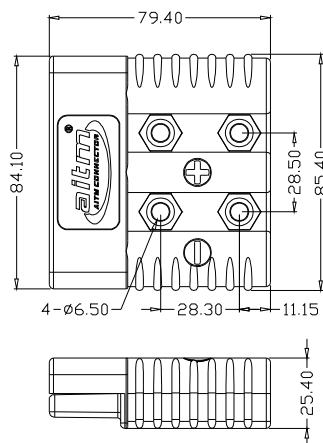
4. Housings

Parts Number	Voltage	Housings Color
SH943	12V	Yellow
SH942	18V	Orange
SH949	24V	RED
SH940	36V	Gray
SH941	48V	Blue



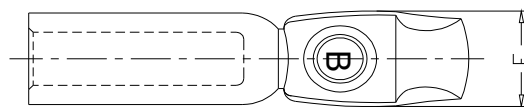
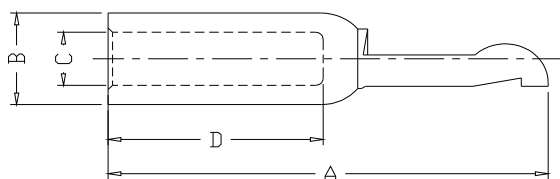
3 Poles Housing

Parts Number	Voltage	Housings Color
SH902	36V	Gray



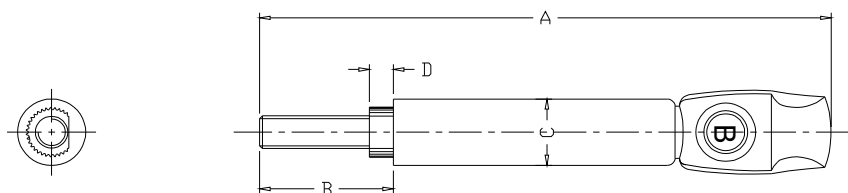
5. Contacts

Part Numbers	-A- (mm)	-B- (mm)	-C- (mm)	-D- (mm)	-E- (mm)	Dia. (AWG \ mm ²)
SH1382	58.7	13.1	11.1	27.5	13.6	1\0AWG\53.5 mm ²
SH1383	58.7	13.1	8.9	27.5	13.6	2AWG\33.6 mm ²
SH1384	58.7	13.1	7.6	27.5	13.6	4AWG\21.1 mm ²



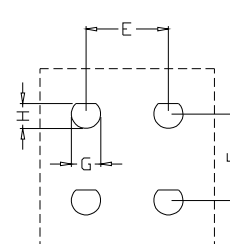
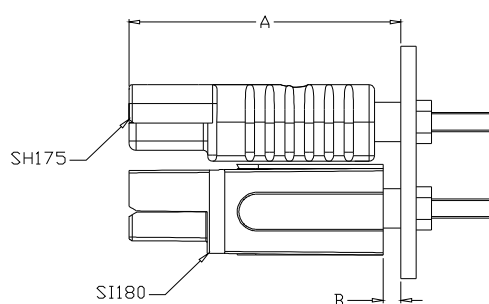
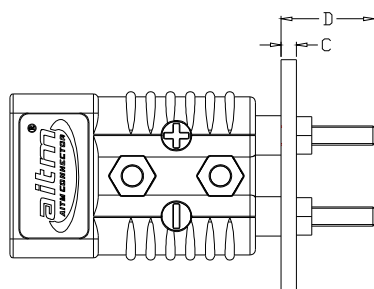
6. Contact Terminal On Board

Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	Dia.(AWG\mm ²)
SH180BBS	109	25.5	13.0	1.6	#1/4-20THD



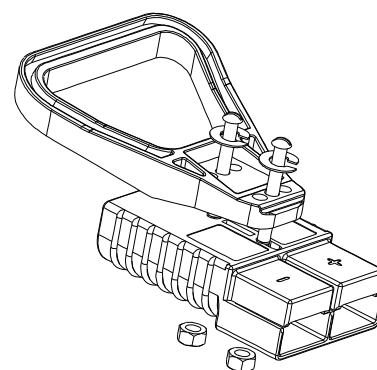
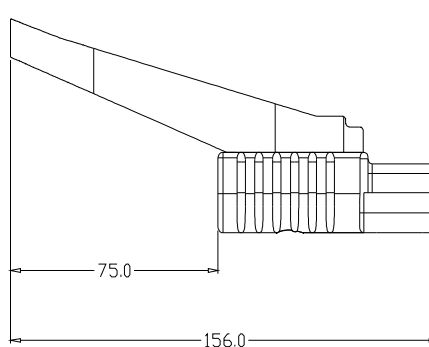
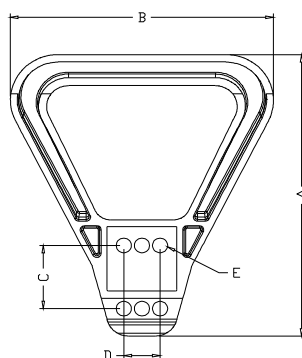
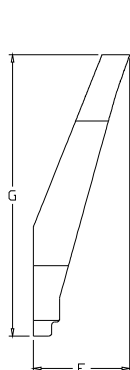
7. Bus Bar Mounting Table

Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	-E-(mm)	-F-(mm)	-G-(mm)	-H-(mm)
SH180BBS	88.14	5.6/8.6	4.95~19.05	25.4	26.8	28.6	9.53	8.2



8.1 Accessories – T Handle

Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	-E-(mm)	-F-(mm)	-G-(mm)	Colour
SH995G3	123.8	114.3	28.6	15.8	6.6	41.6	127	RED
SH995G1	123.8	114.3	28.6	15.8	6.6	41.6	127	Gray



8.2 Accessories – Anti Dust Cover

Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	Colour
SH134G2	69.3	86.4	38.1	RED

