

ADSA75 Single pole Power Connector Specification

Revision Record

Version	Description	Effective Date	Edited by
00	First release	20181205	Edward

Contents

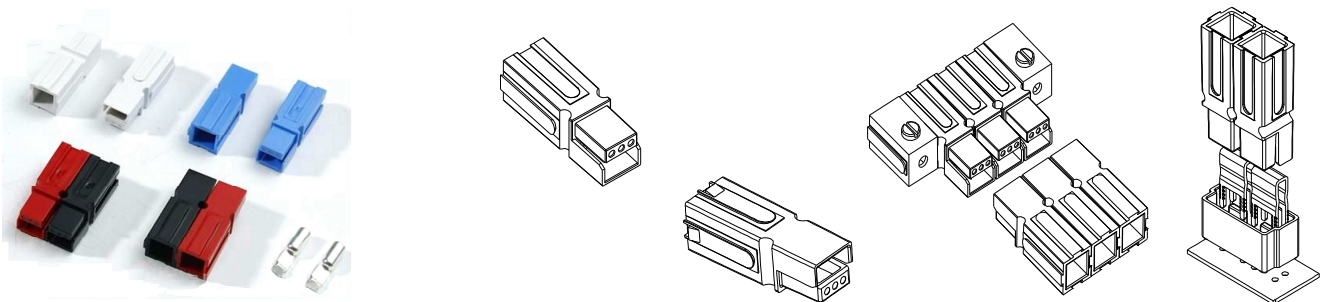
1	Product Overview.....	2
1.1	Description	2
1.2	Features.....	3
1.3	Product name definition	3
2	Specification	3
3	Temperature Rise Charts.....	4
4	Housings	4
5	Contacts.....	4
6	Contact Terminal on Board.....	4
7	Vertical Guild Housing	7
8	Mounting Wings	7

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

- **Stackable Modular Housings**

Four kinds of sizes can meet the one your selection

- **Connection Versatility**

Contacts of Cable, PCB or Bus Bar are in same housing

- **Color identified housings**

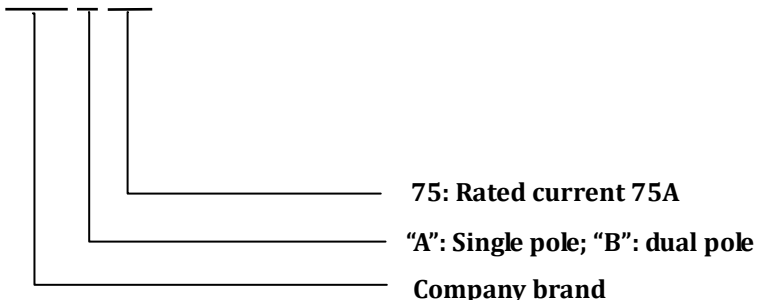
Prevent accidental mating at different voltage levels

- **Self-Securing Design**

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

1.3 Product Name Definition

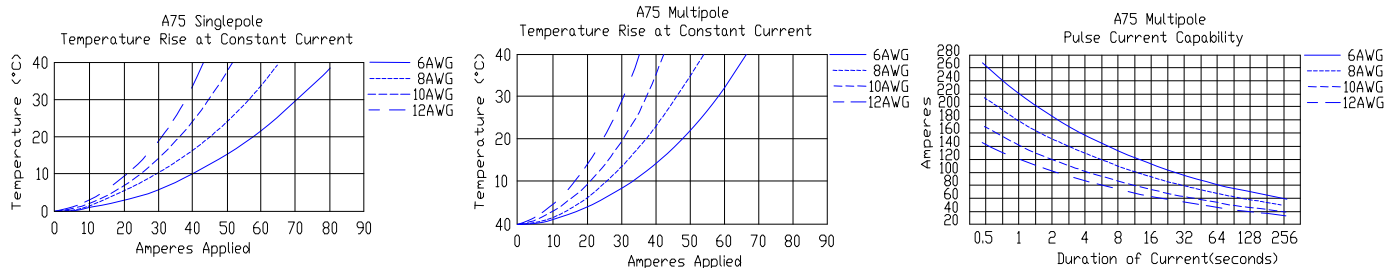
ADSA 75



2. Specifications

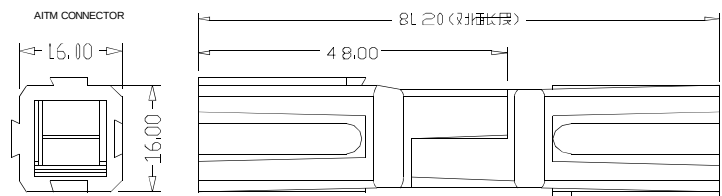
Connector Model		ADSA75
Rated Current	A	75
Rated Voltage	V	600
Contact Barrel Wire Size	AWG/ mm ²	6AWG/ 10/12AWG (13.3mm ² -5.3/3.3mm ²)
Average Contact Resistance	mΩ	0.05
Insulation Withstanding Test Voltage	Vdc	2200
Insulation Resistance	MΩ	>500
No load Contact/Disconnect Cycles	times	>10,000
Under Load (Hot Plug 250 cycles@120V	A	50
Avg. Connect/Disconnect Force	N	31
Operating Temperature Range	C	-20°to 125°
Size	mm	48.0*16.0*16.0
Flammability Rating of Housing Material		UL94 V-0
Contact material		Silver plated copper

3. Temperature Rise Charts



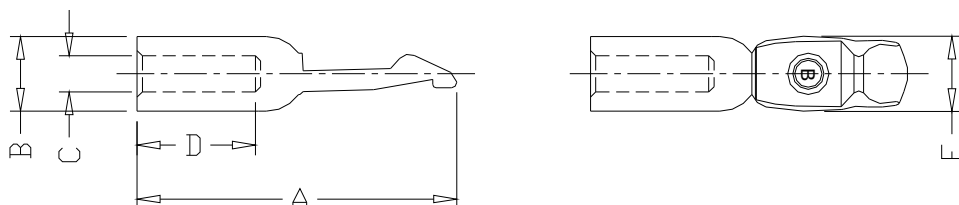
4. Housings

Parts Number	Voltage	Housings Color	
SH5916G15	12V	Yellow	
SH5916G14	18V	Orange	
SH5916G17	24V	Red	
SH5916G16	36V	Gray	
SH5916	48V	Blue	
SH5916G6	72V	Green	
SH5916G4	80V	Black	



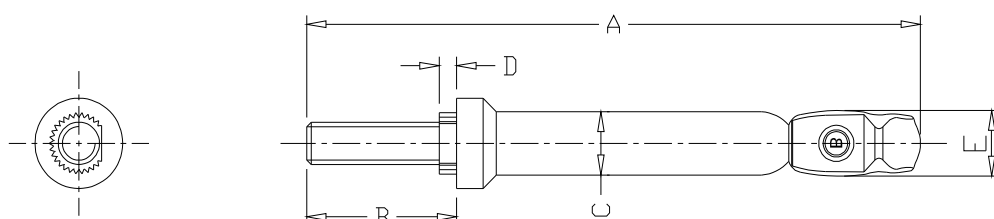
5. Contacts

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	10to12AWG\3.3to5.3 mm ²

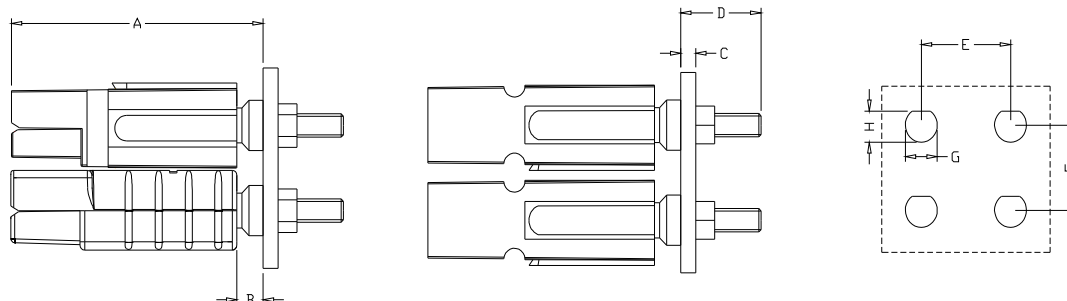


6. Contacts Terminal On Board

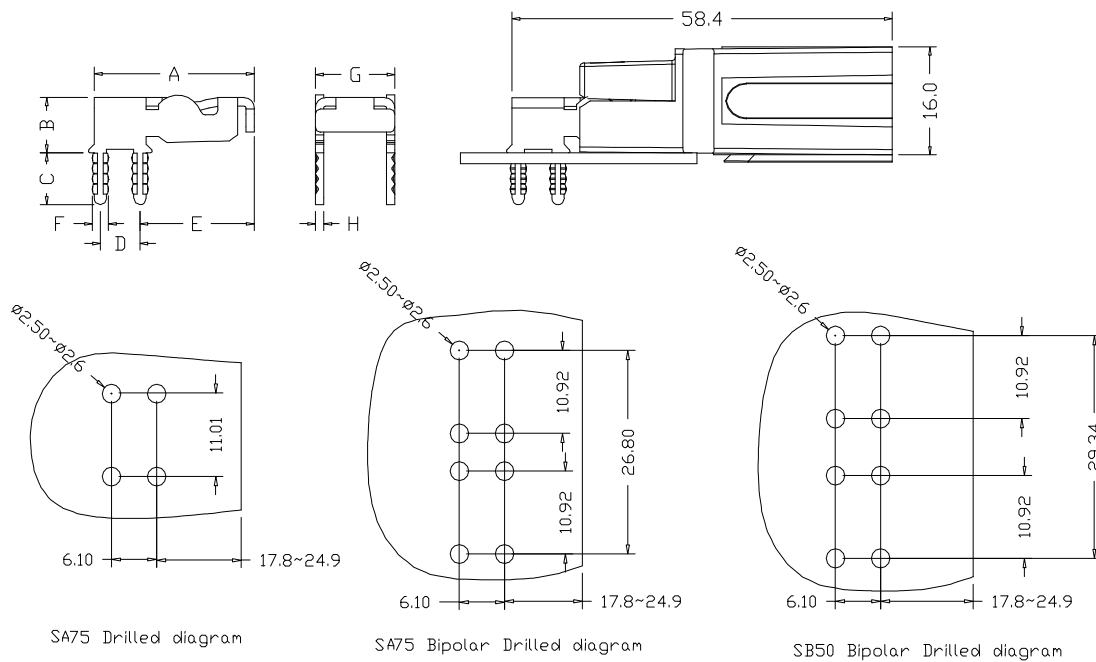
Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	-E-(mm)	Dia.(AWG\mm ²)
SH5075BBS	70	17.1	7.0	2.0	7.3	#10-24THD



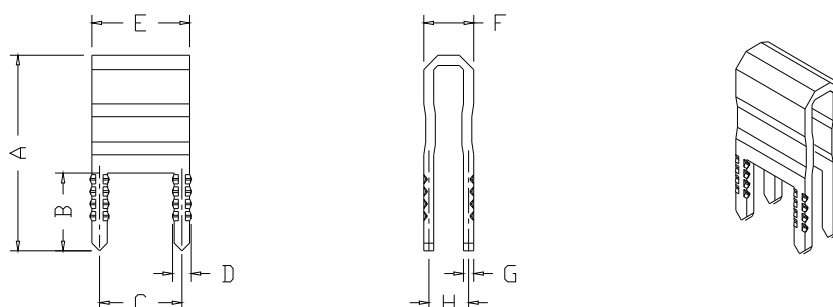
Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	-E-(mm)	-F-(mm)	-G-(mm)	-H-(mm)
SH5075BBS	53.6	5.6	3.2~12.7	17.1	19.0	17.0	6.8	6.2

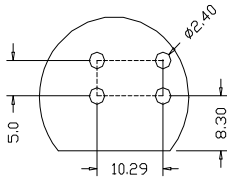


Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	-E-(mm)	-F-(mm)	-G-(mm)	-H-(mm)
SH5934S	24.6	8.1	7.6	6.1	17.5	2.42	12.2	1.27

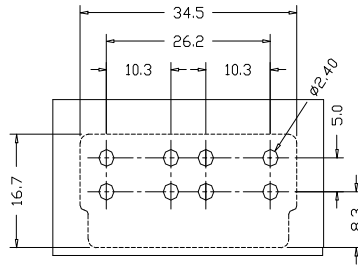


Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	-E-(mm)	-F-(mm)	-G-(mm)	-H-(mm)
SH5933S	24.3	9.7	10.3	2.32	12.2	6.25	1.27	5.0

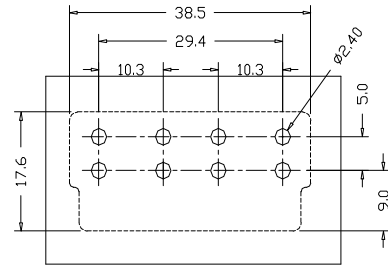




SA75 Drilled diagram



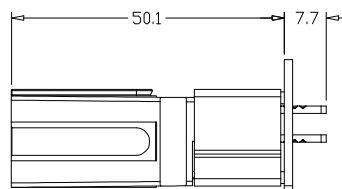
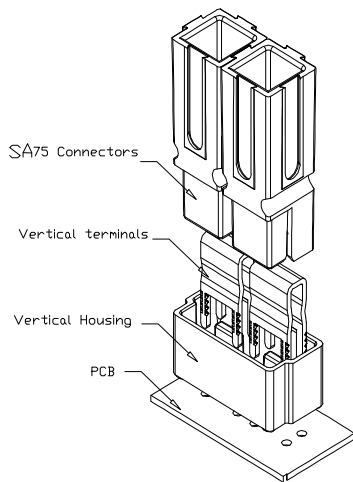
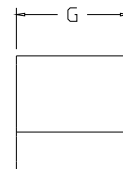
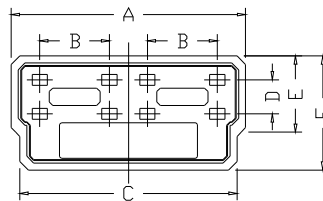
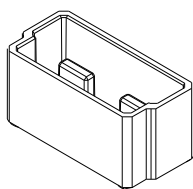
SA75 Bipolar Drilled diagram



SB50 Bipolar Drilled diagram

7. Vertical Guide Housing

Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	-E-(mm)	-F-(mm)	-G-(mm)
SH-HSG-PP	34.5	10.3	32	5.0	11.2	16.7	16.5



8. Mounting Wing

Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	-E-(mm)	-F-(mm)	Color
SH1399G20	15.9	15.9	5.0	5.1	27.4	18.7	Blue

