

ADSA15-45 Single pole Power Connector Specification

Revision Record

Version	Description	Effective Date	Edited by
00	First release	20181205	Edward

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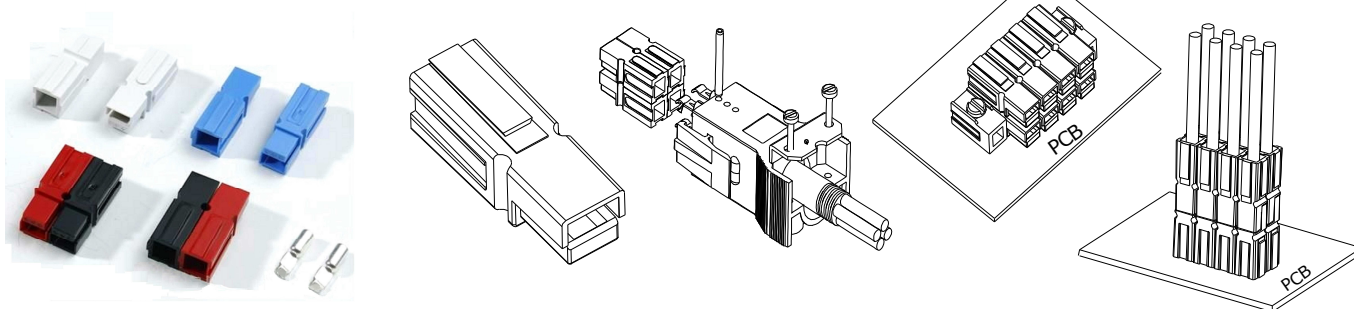
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1. Product Overview

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

- **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**

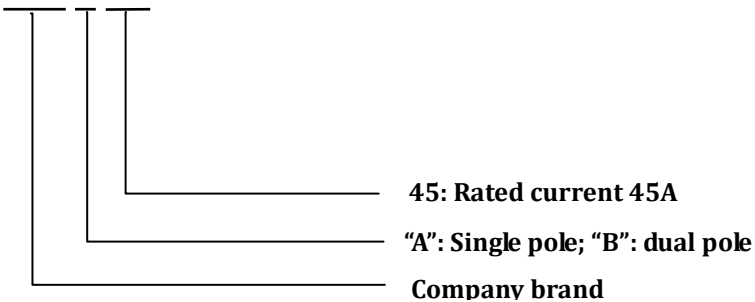
Prevent accidental mating at different voltage levels

- **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

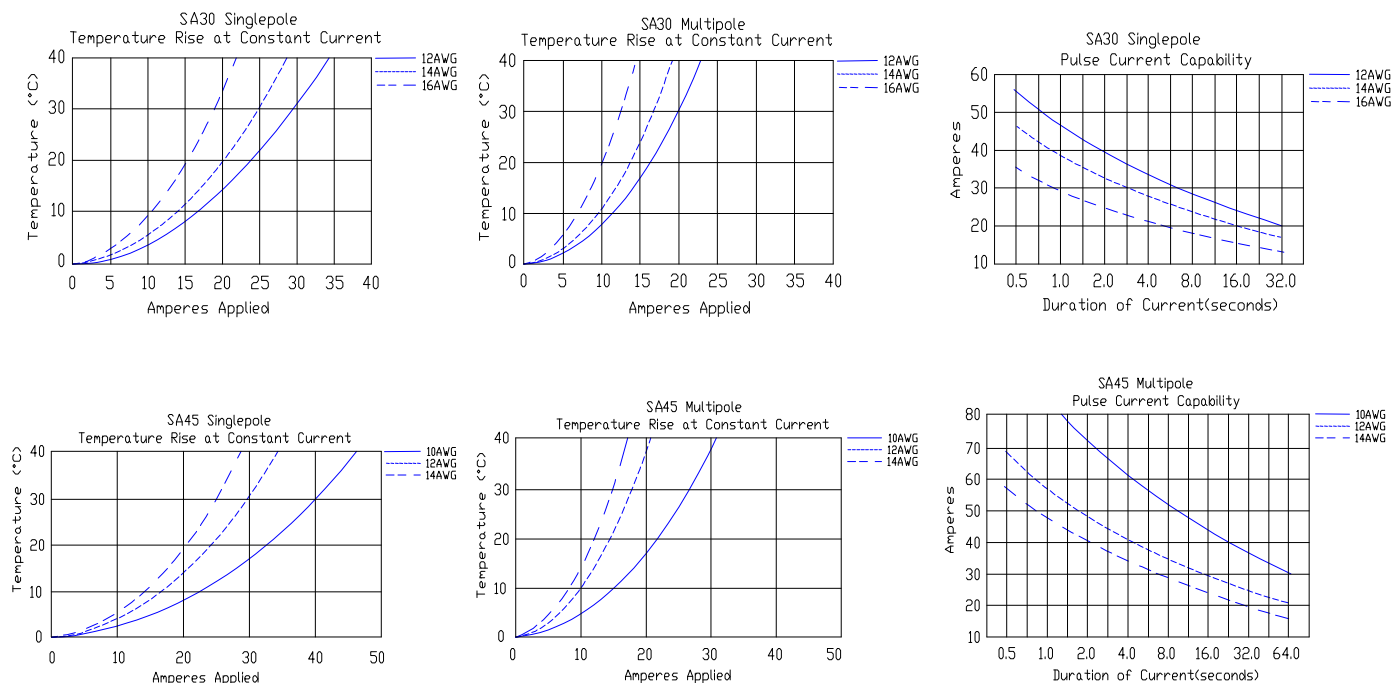
ADSA 45



2. Specifications

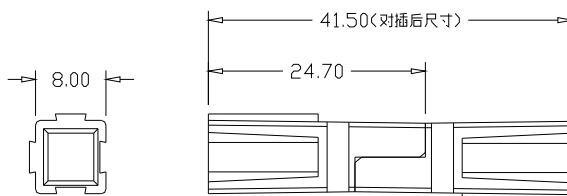
Connector Model		ADSA15-45
Rated Current	A	15-45
Rated Voltage	V	600
Contact Barrel Wire Size	AWG/ mm ²	12/16 10/14(3.3/1.3mm ² -5.3/2.1mm ²)
Average Contact Resistance	mΩ	0.05
Insulation Withstanding Test Voltage	Vdc	2200
Insulation Resistance	MΩ	>500
No load Contact/Disconnect Cycles	times	>10,000
Under Load (Hot Plug 250 cycles@120V	A	30
Avg. Connect/Disconnect Force	N	5
Operating Temperature Range	C	-20°to 125°
Size	mm	24.7*8.0*8.0
Flammability Rating of Housing Material		UL94 V-0
Contact material		Silver plated copper

3. Temperature Rise Charts



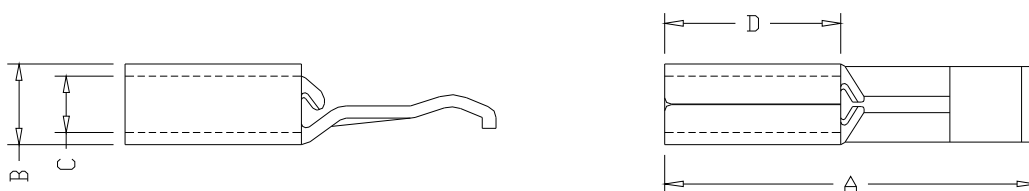
4. Housings

Parts Number	Voltage	Housings Color
SH1327G16	12V	Yellow
SH1327G17	18V	Orange
SH1327	24V	Red
SH1327G18	36V	Gray
SH1327G8	48V	Blue
SH1327G5	72V	Green
SH1327G6	80V	Black



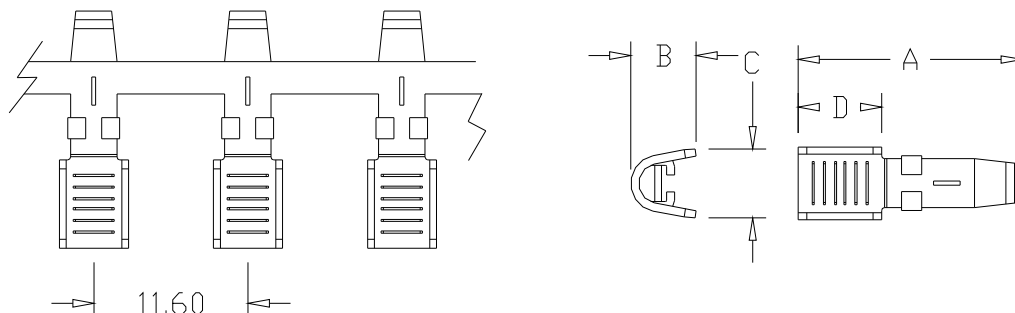
5. Contacts

Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	Dia.(AWG\mm ²)
SH1331	16.3	3.8	2.54	7.35	16\12AWG\1.3-3.3 mm ²
SH1332	16.3	3.05	1.78	7.35	20\16AWG\0.52-1.3 mm ²



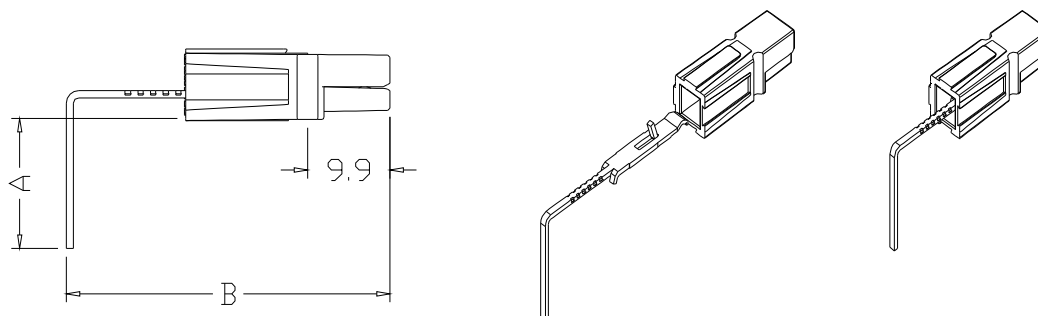
6. Contacts Terminal

Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	Dia.(AWG\mm ²)
SH261G2	16..9	4.9	4.9	6.3	14\10AWG\2.1-5.3 mm ²



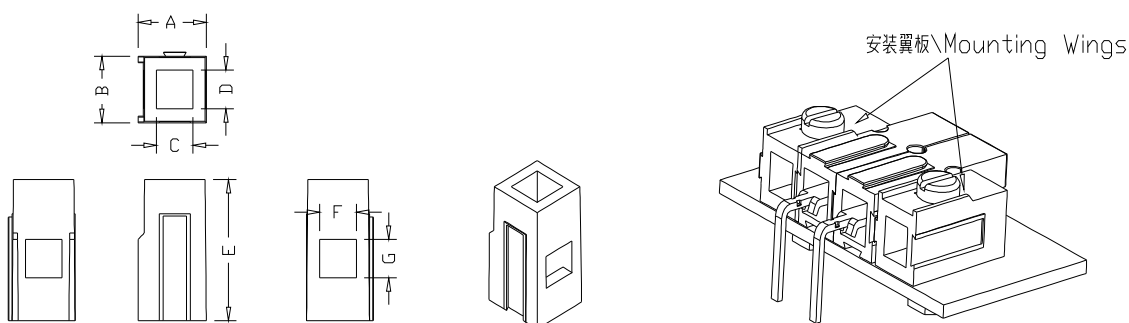
7. Contact Terminal On Board

Part Numbers	-A- (mm)	-B- (mm)
SH1377G1	14.8	38.6



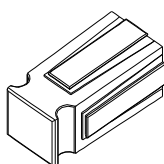
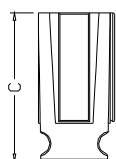
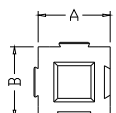
8. Mounting Wing

Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	-E-(mm)	-F-(mm)	-G-(mm)	Color
SI1399G8	8.55	7.89	4.58	4.58	16.8	4.58	4.58	Blue
SI1399G9	8.55	7.89	4.58	4.58	16.8	4.58	4.58	Red

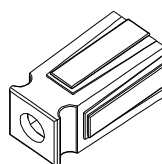
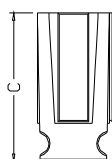
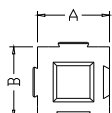


9. Spacer

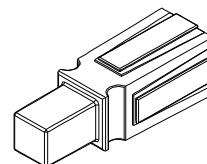
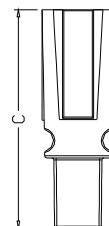
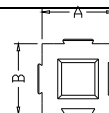
Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	-E-(mm)	-F-(mm)	-G-(mm)	Color
SI1399G6	8.4	8.4	16.7	N/A	N/A	N/A	N/A	RED
SI1399G1	8.4	8.4	16.7	N/A	N/A	N/A	N/A	RED
SI1399G2	8.4	8.4	24.6	N/A	N/A	N/A	N/A	RED



Short without Hole
SI1399G6



Short with Hole
SI1399G1



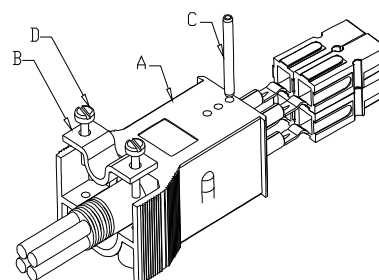
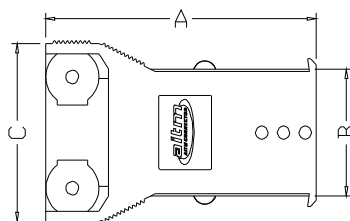
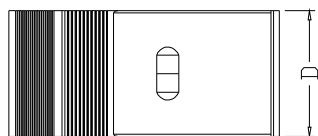
Short with Hole
1399G2

10. Assemble Drawing

Item	Part Description	Part Numbers					
		Plug Shell without Latch		Plug Shell with Latch		Plug Shell with Latch(short)	
A	Housing	SI1460G1	SI1460G2	SI1470G3	SI1470G4	SI1470G1	SI1470G2
B	Cable Clamp With Screws	SI115G1	SI115G2	SI115G1	SI115G2	N/A	N/A
C	Retaining Pin	SI110G9	SI110G9	SI110G9	SI110G9	SI110G9	SI110G9
D	Tapping Screw	SI110T9	SI110T9	SI110T9	SI110T9	N/A	N/A

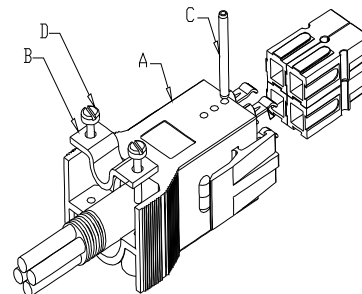
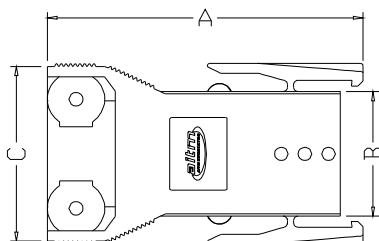
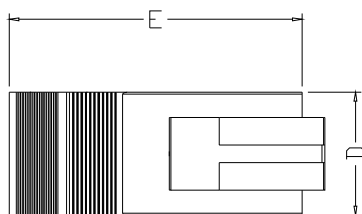
a. Plug Shell without Latch

Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	-E-(mm)	Poles
SI1461G1	53.1	21.7	30.5	21.5	N/A	2-4
SI1461G2	53.1	29.8	38.6	21.5	N/A	5-6



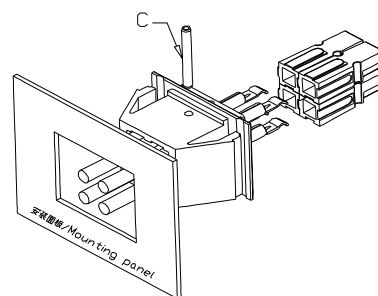
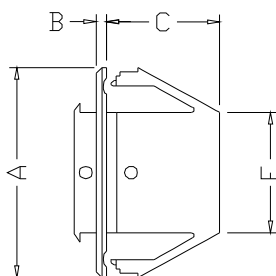
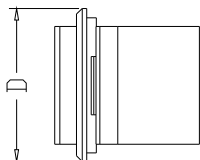
b. Plug Shell with Latch

Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	-E-(mm)	Poles
SI1460G1	53.1	21.7	30.5	21.5	49.3	2-4
SI1460G2	53.1	29.8	38.6	21.5	49.3	5-6



c. Plug Shell with Latch (short)

Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	-E-(mm)	Poles
SI1470G1	38.6	1.8	19.8	28.1	22.1	2-4
SI1470G2	48	1.8	19.3	28.1	30.2	5-6



11. Accessories – PVC Sheath

Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	Poles
SI117G7	34	12	19	10.5	2-4

