

# AT 12 Socket Plug



**Brand:** Amphenol

**Product Code:** AT06-12SA

**Availability:** In Stock

**Weight:** 0.05kg

**Dimensions:** 5.00cm x 2.00cm x 2.00cm

**Price:** \$6.50

## Short Description

AT Series™ connectors are a high-performance, cost effective solution able to be used in a variety of interconnect applications: Heavy Duty, Transportation, Marine, Diagnostic, Military, Alternative Energy and Agricultural. They contain superior environmental seals and seal retention capabilities.

## Description

The connector design incorporates an integral latching system that ensures a definitive electrical and mechanical connection. Connector housings are manufactured with a thermoplastic material that is not only durable, but has excellent UV resistance, dielectric/mechanical properties and environmentally RoHS compliant. The sealing system is comprised of a front and rear silicone, multi-sealing perimeter against environmental ingress. Contacts are derived from quality copper alloy to ensure an electrically-reliable connection.

AT Series™ connectors are compatible with other existing standard products industry-wide, including the Deutsch DT series.

## Specifications

Current Capacity

Size 16, 13A (max)

#### Wire Range

Size 16 contacts will accept wire ranges of 14 thru 20AWG

#### Operating temperature range

-55°C to +125°C at rated current

#### Dielectric Value

Meets or exceeds 1500volts minimum

#### Drop Test

Shall not become detached or loosened when placed at 750mm and dropped to concrete eight times

#### Shock

No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)

#### Vibration

Continued continuity without degradation to mechanical or physical attributes following vibration. (max acceleration 20 g's at Sine sweep of 10-2000Hz)

#### Connector Terminal Retention

When subjected to a direct pull, contacts achieve a minimum pull-out force of 25 lbs.

#### Connector Retention

A mated connector subjected to a pulling force by the exiting wire bundle at 25lbs. times the number of contacts to a maximum of 100 lbs. applying load for 30 seconds.

#### Thermal Shock

Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector

#### Insulation Resistance

1000 megohms minimum at 25°C

#### Mating Cycle Durability

Following 100 cycles of connection engagement and disengagement, degradation either mechanical or electrical is not evident.

### Contact Millivolt Drop

Size 16 contacts with 16AWG conductor -100mV drop max at 13A test current

### Water Immersion

A mated connection, properly wired, placed in an oven at +125°C for 1 hour, then placed immediately in a depth of water 1 meter for 4 hours without loss of electronic performance

## Product Gallery

