

# FLA Series Dimming Receptacle – ANSI C136-41

## ANSI C136-41 COMPLIANT FLA DIMMING RECEPTACLE

FLA Series Dimming Receptacle – ANSI C136-41 is designed with power and dimming/signal contacts to provide a connection between dimmable photocell and the luminaire for commercial and utility lighting. The locking type receptacles are compliant with ANSI C136-10. These are also used for lighting applications inside Intelligent Buildings. FLA Dimming Receptacle comes with UL94V-0 high temperature resistant housing and are rated up to 15A per power contact.

- 0, 2 or 4 dimming contacts options
- RoHS Compliant
- UL94V-0 high temperature resistant housing
- Operating temperature range from -40°C to +105°C



### TARGET MARKETS



### FEATURES

- 0, 2 or 4 dimming contacts options
- UL94V-0 rated high temperature resistant housing
- Operating temperature from -40°C to +105°C
- RoHS compliant
- Receptacle comes pre-terminated with wire ranging from 18AWG to 14AWG rated at 105°C or 150°C

### BENEFITS

- Design and application flexibility
- Ensures application safety
- Suitable for wide range of application environments
- Meets environmental, health and safety requirements
- Ease of integration into new or existing lighting fixtures

## TECHNICAL INFORMATION

### MATERIAL

- Housing: High temperature thermoplastic, UL94V-0 rated, black
- Dimmable Contacts: Copper alloy plated with  $0.76\mu\text{m}$  ( $30\mu\text{m}$ ) min. gold over nickel
- Dimmable Contact Wire: Copper with PVC insulation, UL 10070, 18AWG
- Power Contacts: Copper alloy plated with tin over nickel
- Power Contact Wire: Copper with PVC insulation, UL 10070, 14AWG or 16AWG

### MECHANICAL PERFORMANCE

- Thermal Shock: EIA 364-32
- Physical Shock: Per EIA364-27, Condition H (11ms 30G)
- Humidity: Per EIC512-6 / EIA364-11A
- Vibration: Per EIA364-28, Condition 5A
- Salt Spray: Per EIA364-26, 250Hrs
- Mating Cycles: EIA364-9, 25 cycles
- Operating Temperature:  $-40^\circ\text{C}$  to  $+105^\circ\text{C}$
- Temperature Rise: EIA364-70,  $30^\circ\text{C}$  T at 15A

### RECEPTACLE ELECTRICAL CHARACTERISTICS

- Voltage: 600V AC/DC
- Power Current Rating: 15A per contact
- Dimming Voltage Rating: 0–10V
- Power Contact Resistance LLCR:  $\Delta 30\text{m}\Omega$  max.
- Dimming Contact Resistance:  $\Delta 30\text{m}\Omega$
- Insulation Resistance:  $500\text{M}\Omega$  min.
- Dielectric Withstanding Voltage: 2500V AC @ sea level

### PACKAGING

- Box

### SPECIFICATION

- Amphenol Specification: S6143C

### ENVIRONMENTAL

- RoHS compliant per EU directive 2011/65/EU and amendments.

### TARGET MARKETS/APPLICATIONS



Intelligent building  
Area lighting  
Street lighting

## PART NUMBERS

Description	Part Numbers
FLA Series Dimming Receptacles – ANSI C136-41, no dimmable contacts, 14AWG wire gauge, $-55$ to $105^\circ\text{C}$ operating temperature	FLA014130
FLA Series Dimming Receptacles – ANSI C136-41, 2 dimmable contacts, 14AWG wire gauge, $-55$ to $105^\circ\text{C}$ operating temperature	FLA214130
FLA Series Dimming Receptacles – ANSI C136-41, 4 dimmable contacts, 14AWG wire gauge, $-55$ to $105^\circ\text{C}$ operating temperature	FLA414130
FLA Series Dimming Receptacles – ANSI C136-41, no dimmable contacts, 14AWG wire gauge, $-55$ to $150^\circ\text{C}$ operating temperature	FLA014230
FLA Series Dimming Receptacles – ANSI C136-41, 2 dimmable contacts, 14AWG wire gauge, $-55$ to $150^\circ\text{C}$ operating temperature	FLA214230
FLA Series Dimming Receptacles – ANSI C136-41, 4 dimmable contacts, 14AWG wire gauge, $-55$ to $150^\circ\text{C}$ operating temperature	FLA414230