

# FLA Series Dimming Receptacles, Caps and Gaskets

## DIMMING RECEPTACLES, CAPS AND GASKETS, FOR ROADWAY AND OUTDOOR LIGHTING

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 available in fixed or rotatable configurations and are compliant with ANSI C136.41 FLA Dimming Receptacles feature UL94V-0 high temperature resistant housings and are rated up to 15A per power contact. NEMA/ANSI FLA-C Caps are available with open circuit, short circuit and short circuit with MOV function. FLA-2N Series mounting gaskets are also available in EPDM or Silicone Rubber versions for better water protection.

- 0, 2 or 4 dimming contacts options
- RoHS Compliant
- UL94V-0 high temperature resistant housing
- Operating temperature range from  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

### FEATURES

- 0, 2 or 4 dimming contacts options
- UL94V-0 rated high temperature resistant housing
- Receptacle comes pre-terminated with power wire ranging from 16AWG to 14AWG rated at  $105^{\circ}\text{C}$  or  $150^{\circ}\text{C}$
- Rotatable configurations available
- Tool-less rotatable configurations available
- EPDM or Silicone Rubber gaskets available
- Protective caps with shorting or non-shorting function and integrated sealing gasket
- RoHS compliant



### TARGET MARKETS



### BENEFITS

- Supports Power only, or power plus 1 or 2 sets of dimming and/or additional control functions
- Ensures application safety
- Ease of integration into new or existing light fixtures
- Enhanced 360-degree alignment capability
- Spring mounted, no tools required to install or adjust
- Silicone gasket provides higher temperature capability and enhanced set resistance
- Ensure environmental protection in absence of a dimming/ photocell module.
- RoHS compliant

## TECHNICAL INFORMATION

### MATERIAL

- Housings: High temperature resistant thermoplastic, UL94V-0 rated, black
- Material for Gasket: EPDM or silicone rubber
- Dimmable Contacts: Copper alloy plated with 0.76µm (30µ") 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: 25 cycles from -40°C and 105°C, per EIA-364-32
- Mechanical Shock: 30 G's, ½ sine, 11ms, per EIA-364-27
- Humidity: Per EIA-364-31, Method IV, Cond. B, Omitting 7b
- Vibration with Load: 15A load, per EIA-364-28, Condition I
- Salt Spray: 240 hrs, per EIA364-26
- Durability: 25 cycles, per EIA-364-09
- Operating Temperature – Receptacle : -40°C to +85°C
- Operating Temperature – Gaskets:
  - -40°C to +50°C (EPDM Rubber)
  - -40°C to +150°C (Silicone Rubber)
- Temperature Rise: 30°C max ΔT at rated current, per EIA-364-70
- Ingress Protection Ratings: IP66 (with approved gaskets and caps)
- Impact Rating: IK09/Top Side

### RECEPTACLE ELECTRICAL CHARACTERISTICS

- Power Contact Voltage Rating: 600V AC/DC
- Power Contact Current Rating: 15A max. per circuit at 25°C
- Dimming Contact Voltage Rating: 30V DC
- Contact Resistance LLCR: Δ30mΩ max.
- Insulation Resistance: 500MΩ min. at 500V DC test voltage
- Dielectric Withstanding Voltage: 2500V AC

### PACKAGING

- Box

### SPECIFICATION

- Amphenol Specification: S6143C

### ENVIRONMENTAL

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

### APPROVALS & CERTIFICATION

- UL, Certification Number: E514916

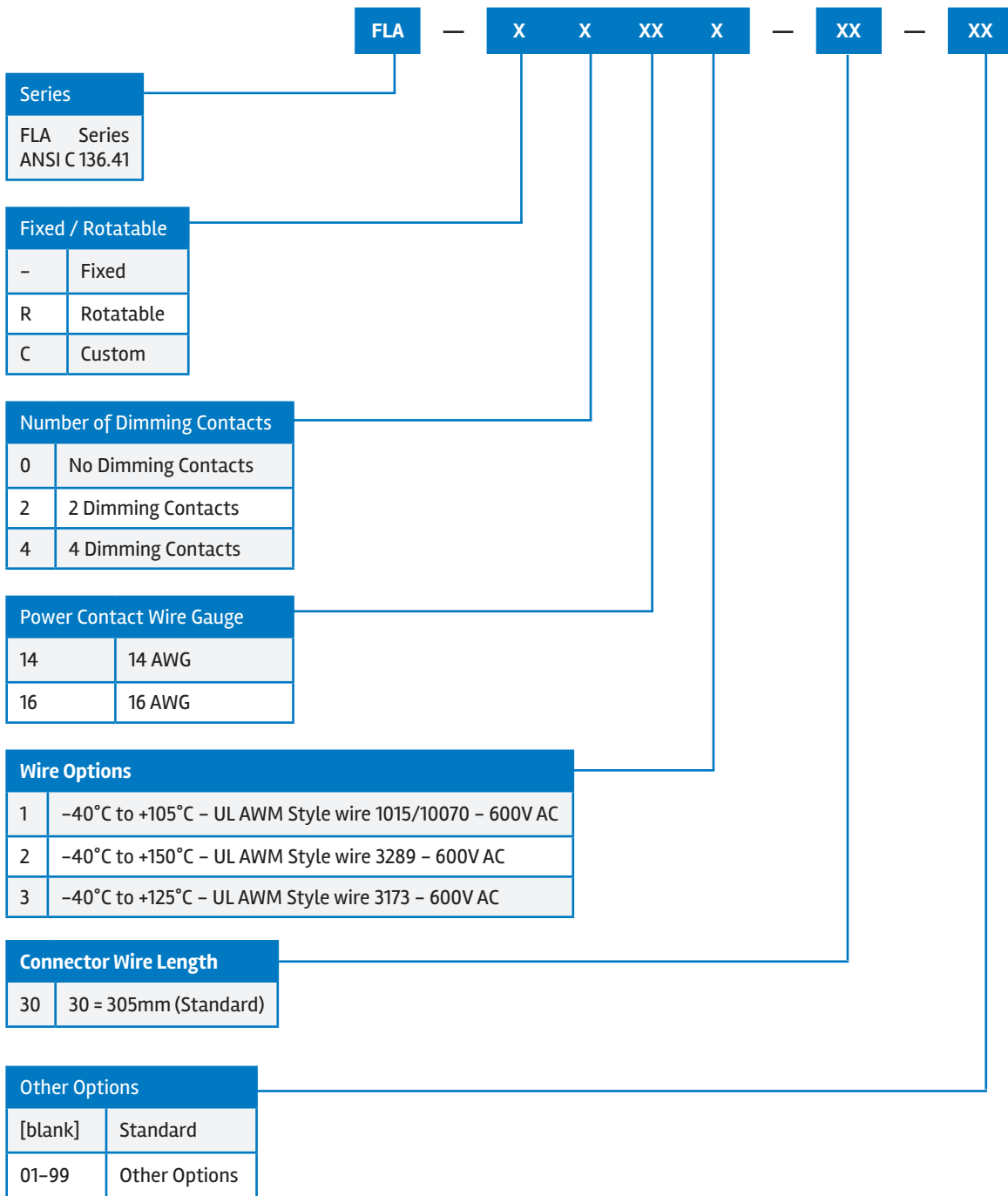
### TARGET MARKETS/APPLICATIONS



Roadway Lighting  
Outdoor Lighting  
Area Lighting

## ▶ FLA Series Dimming Receptacles, Caps and Gaskets

### PART NUMBER SELECTOR – FLA FIXED ROTATABLE RECEPTACLE



### PART NUMBERS – RECEPTACLES /EXAMPLES

Description	Part Numbers
FLA Fixed Receptacle NEMA ANSI C136.41, No Dimming Contacts, 14AWG, 105C Wire Insulation	FLA-0141-30
FLA Fixed Receptacle NEMA ANSI C136.41, 4 Dimming Contacts, 16AWG, 105C Wire Insulation	FLA-4161-30
FLA Rotatable Receptacle NEMA ANSI C136.41, 2 Diming Contacts 14AWG, 105C Wire Insulation	FLA-R2141-30

All receptacles feature 3 twist-lock power contacts