

BrightConnX™ ANSI C136.41 FLA Series Receptacles & Caps

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

BrightConnX™ 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. BrightConnX™ 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 +85°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°C or 150°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

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° 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

▶ BrightConnX[™] ANSI C136.41 FLA Series Receptacles & Caps

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: IK08/Top Side

RECEPTACLE ELECTRICAL CHARACTERISTICS

- Power Contact Voltage Rating: 600VAC/VDC
- Power Contact Current Rating: 15A max. per circuit at 25°C
- Dimming Contact Voltage Rating: 30VDC
- Contact Resistance LLCR: Δ 30m Ω max.
- Insulation Resistance: 500M Ω min. at 500VDC test voltage
- Dielectric Withstanding Voltage: 2500VAC

PACKAGING

Box

SPECIFICATION

Amphenol Specification: S6143C

ENVIRONMENTAL

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

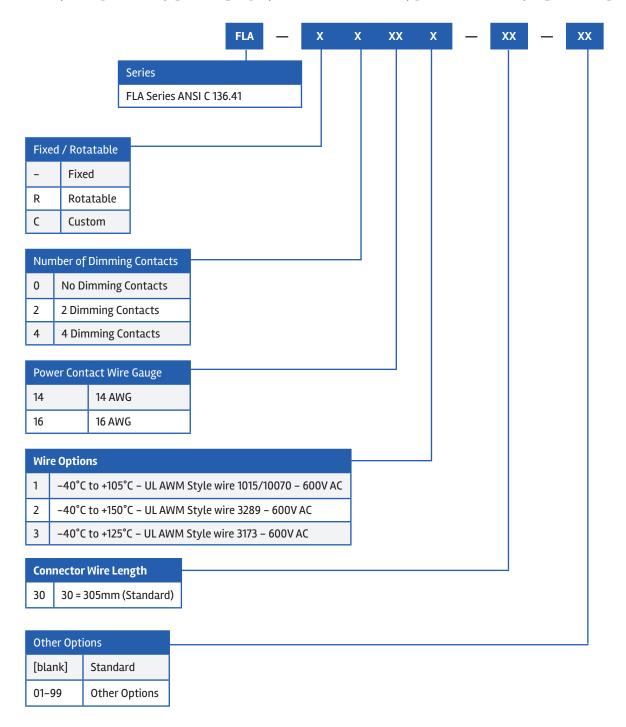
APPROVALS & CERTIFICATION

• UL, Certification Number: E514916

TARGET MARKETS/APPLICATIONS



PART NUMBER SELECTOR - FLA FIXED ROTATABLE RECEPTACLE

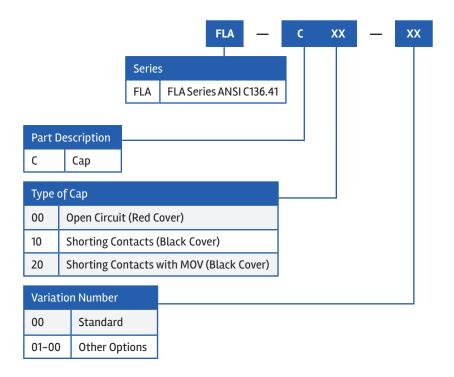


PART NUMBERS - RECEPTACLES / EXAMPLES

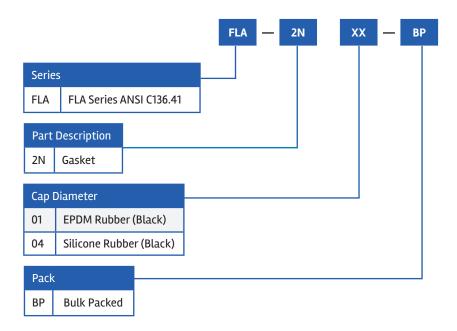
Descrption	Part Numbers
FLA Fixed Receptacle NEMA ANSI C136.41, No Dimming Contacts, 14AWG, 105C Wire Insulation	FLA-0141-30
FLA Fixed Receptacle NEMA ANSI C136.41, 4 Dimming Contacts, 16AWG, 105C Wire Insulation	FLA-4161-30
FLA Rotatable Receptacle NEMA ANSI C136.41, 2 Diming Contacts 14AWG, 105C Wire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

All receptacles feature 3 twist-lock power contacts

PART NUMBER SELECTOR - CAPS



PART NUMBER SELECTOR – MOUNTING GASKETS



PART NUMBERS - CAPS & GASKETS/ EXAMPLES

Descrption	Part Numbers
FLA Open Cap NEMA ANSI C136.41, Open Circuit	FLA-C00-00
FLA Shorting Cap NEMA ANSI C136.41, Shorting Contacts	FLA-C10-00
FLA Shorting Cap NEMA ANSI C136.41, Shorting Contacts with MOV	FLA-C20-00
FLA Panel Gasket NEMA ANSI C136.41, EPDM Rubber, Black	FLA-2N-01BP
FLA Panel Gasket NEMA ANSI C136.41, Silicone Rubber, Black	FLA-2N-04BP