

# FLA Dimming Receptacle-ANSI C136-41

Amphenol

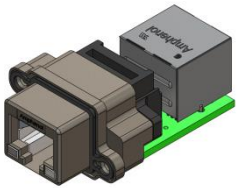
Product Specification S6143C Rev 1.5

*Now you're connected!*

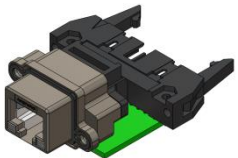
## About Amphenol Commercial Products

Amphenol's commercial connector products are used in a variety of end user applications including networking, telecom, server & computer, storage & HDD, consumer electronics and entertainment, professional audio & Industrial & Military/Aerospace.

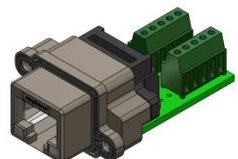
## MRJ/MRJR PCB Options



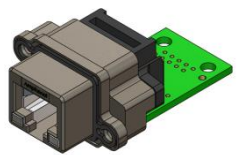
**MRJR-8780-01**  
CAT5e RJ45 on PCB  
with Matching RJ45



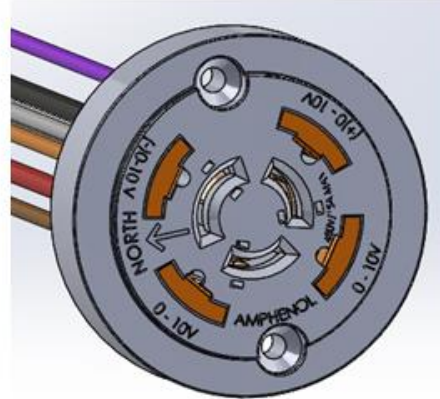
**MRJR-5580-01**  
Standard RJ45 on PCB  
with Matching Cable Header



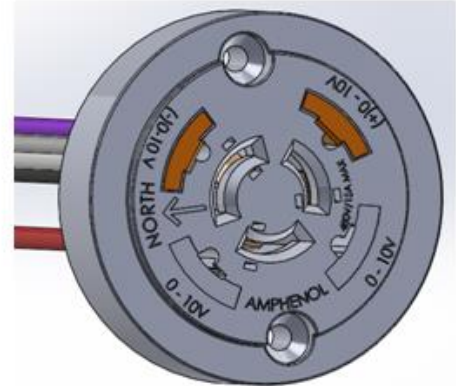
**MRJR-5980-01**  
Standard RJ45 on PCB  
with Matching Terminal Block



**MRJR-5C80-01**  
Standard RJ45 on PCB  
For Discrete Wiring



- 3 Power Contacts  
- 4 Dimming contacts



- 3 Power Contacts  
- 2 Dimming contacts

## Overview

This product specification defines the general use and performance parameters for Amphenol's Dimming Receptacles' as per ANSI C136-41

### Availability:

- 3 power contacts and 4 dimming contacts
- 3 Power contacts and 2 dimming contacts
- 3 power contacts and no dimming contacts
- Please refer to the part numbering codes for the options available at the end of this document

## Usage

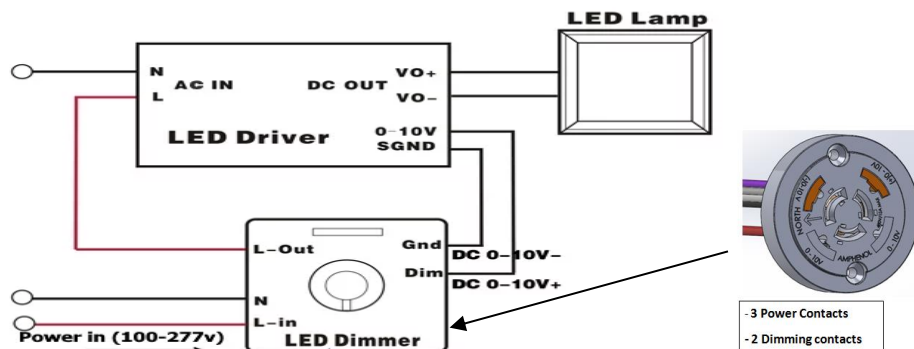
This ANSI C136-41 Receptacle to be used with external locking type ANSI standard dimmable photocells for street and area lighting equipment. Locking type receptacle as per ANSI C136-10

## Applications

Intended for use in applications such as:

- Roadway Lighting
- Area lighting

## 0-10v Dimming Wiring Diagram



# Now you're connected!

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## Related Products

### MUSBR-XHD Series

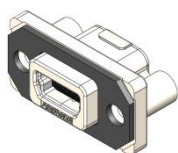


**MUSBR-AHD2-821XX**  
Thumb Screw, Translucent  
Colour

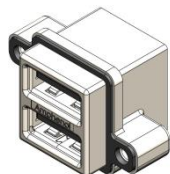


**MUSBR-AHD2-221XX**  
Cap Screw, Black Colour

### MUSB Series



**MUSB-B151-34**  
Mini-B USB,  
Right Angle PCB Tail



**MUSB-C111-30**  
Stacked Type-A USB,  
Right Angle PCB Tail

## Electrical Characteristics

Power Contact Current Rating:	15A max per circuit @ 25°C, 30°C max ΔT
Power Contact Voltage Rating:	600 VAC / VDC
Dimming Contact Voltage Rating:	30 VDC
Contact Resistance (LLCR):	Δ30mΩ max
Insulation Resistance:	500 MΩ min @ 500 VDC test voltage
Dielectric Withstanding Voltage:	2500 VAC

## Mechanical Characteristics

Thermal Shock:	25 cycles between -40°C and +105°C, per EIA-364-32
Humidity:	Per EIA-364-31, Method IV, Cond. B, Omitting 7b
Mechanical Shock:	30 G's, ½ sine, 11 ms, per EIA-364-27
Vibration with Load:	15 A load, per EIA-364-28, Cond. I
Salt Spray:	240 hrs, per EIA-364-26
Durability:	25 cycles, per EIA-364-09
Operating Temperature:	-40°C to +105°C
Temperature Rise:	30°C max ΔT @ rated current, per EIA-364-70

## Assembly Process Characteristics

Recommended Torque for Mount Screws: 1 to 2 Nm (8.8-17.6 lb in.)

## Material Characteristics

FLA Receptacles are RoHS compliant per EU directive 2011/65/EU and amendments. Unless otherwise specified, the materials for each component shall be:

- Dimming Contacts: Phosphor Bronze with 0.76 (30μ") or 0.38 μm (15μ") min Gold over 1.27μm (50μ") min Nickel
- Power Contacts: Phosphor Bronze with 2.54 μm(100μ") matte tin over 1.27μm (50μ") min Nickel
- Housing: High temperature thermoplastic, UL94V-0 rated, black
- Wires as per Product Part Numbering System below

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## Product Part Numbering System

