

# FLA Dimming Receptacle-ANSI C136-41

Amphenol

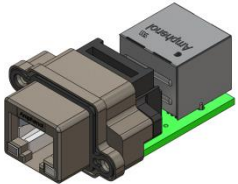
Product Specification S6143C Rev 1.5

*Now you're connected!*

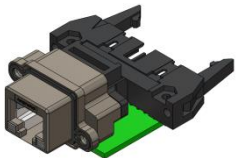
## About Amphenol Commercial Products

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.

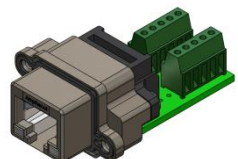
## MRJ/MRJ-R PCB Options



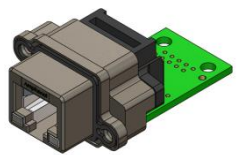
**MRJR-8780-01**  
CAT5e RJ45 on PCB  
with Matching RJ45



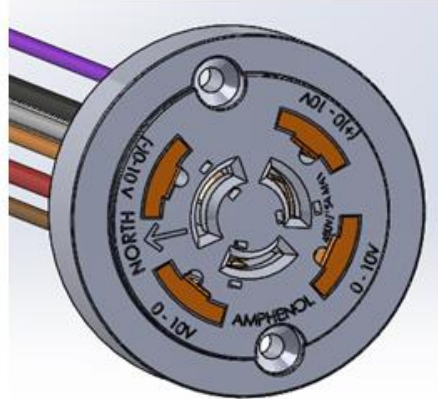
**MRJR-5580-01**  
Standard RJ45 on PCB  
with Matching Cable Header



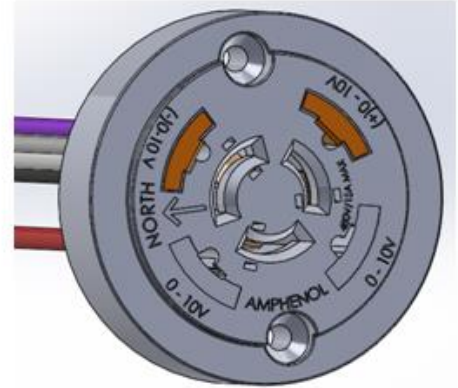
**MRJR-5980-01**  
Standard RJ45 on PCB  
with Matching Terminal Block



**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

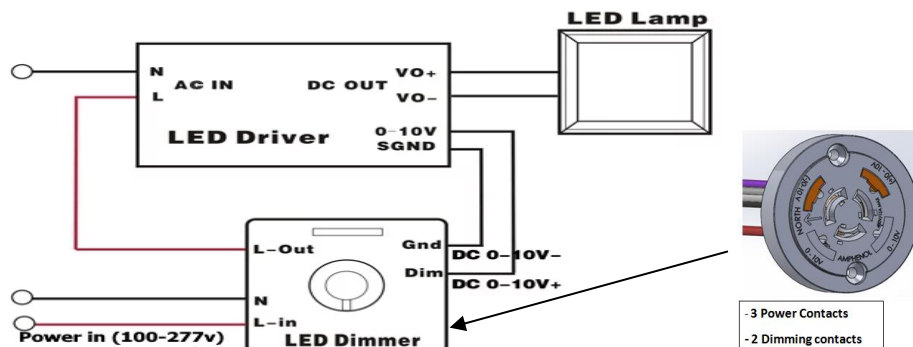
This ANSI C136-41 Receptacle to be used with external locking type ANSI standard dimmable photocells for street and area lighting equipment. Locking type receptacle as per ANSI C136-10

## 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

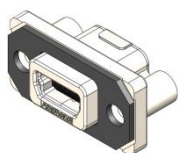


**MUSBR-AHD2-821XX**  
Thumb Screw, Translucent Colour

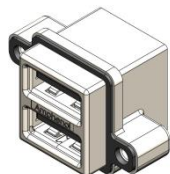


**MUSBR-AHD2-221XX**  
Cap Screw, Black Colour

### 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 $\Delta T$ |
| Power Contact Voltage Rating:    | 600 VAC / VDC                                   |
| Dimming Contact Voltage Rating:  | 30 VDC                                          |
| Contact Resistance (LLCR):       | $\Delta 30m\Omega$ max                          |
| Insulation Resistance:           | 500 M $\Omega$ 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 $\Delta T$ @ 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 (30 $\mu$ ) or 0.38  $\mu$ m (15 $\mu$ ) min Gold over 1.27 $\mu$ m (50 $\mu$ ) min Nickel
- Power Contacts: Phosphor Bronze with 2.54  $\mu$ m (100 $\mu$ ) matte tin over 1.27 $\mu$ m (50 $\mu$ ) min Nickel
- Housing: High temperature thermoplastic, UL94V-0 rated, black
- Wires as per Product Part Numbering System below

*Now you're connected!*

## Product Part Numbering System

