

## DESCRIPTION

## PRODUCT COVERED:

USR, CNR Component, SSL IDC (SMT) Series Connectors

## GENERAL:

These devices are multi-pole SSL (Solid State Lighting) connectors intended for factory assembly on printed wiring boards SMT (surface mount type) where the acceptability of combinations is determined by Underwriters Laboratories Inc. The devices are identified as follows:

USR indicates investigation to United States Standards, UL 1977.

CNR indicates investigation to Canadian National Standards, C22.2 No. 182.3.

## ELECTRICAL RATINGS:

Part Nos.		Number of poles	Wire Size (AWG) Str/Sol	Current (A)	Voltage (V AC/DC)
2106003, 2106431	USR, CNR	1, 2, 3, 4	18 str	9	400
2106003, 2106431	USR, CNR	1, 2, 3, 4	18 sol	9	400
2106003, 2106431	USR, CNR	1, 2, 3, 4	20 str	8	400
2106003, 2106431	USR, CNR	1, 2, 3, 4	20 sol	8	400
2106003, 2106431	USR, CNR	1, 2, 3, 4	22 str	7	400
2106003, 2106431	USR, CNR	1, 2, 3, 4	22 sol	7	400
2106003, 2106431	USR, CNR	1, 2, 3, 4	24 str	6	400
2106003, 2106431	USR, CNR	1, 2, 3, 4	24 sol	6	400
2106489, 2106751	USR, CNR	1, 2, 3, 4	18 str	9	400
2106489, 2106751	USR, CNR	1, 2, 3, 4	18 sol	9	400
2106489, 2106751	USR, CNR	1, 2, 3, 4	20 str	8	400
2106489, 2106751	USR, CNR	1, 2, 3, 4	20 sol	8	400
2106489, 2106751	USR, CNR	1, 2, 3, 4	22 str	7	400
2106489, 2106751	USR, CNR	1, 2, 3, 4	22 sol	7	400
2106489, 2106751	USR, CNR	1, 2, 3, 4	24 str	6	400
2106489, 2106751	USR, CNR	1, 2, 3, 4	24 sol	6	400
2106899	USR, CNR	2	22 str	7	400
2106899	USR, CNR	2	22 sol	7	400
<b>2154886-1</b>	<b>USR, CNR</b>	<b>2</b>	<b>22 str</b>	<b>7</b>	<b>1000</b>

Flammability - V0

Disconnecting Use - see Sec Gen for required marking

## TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Use - For use only in or with complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Conditions of Acceptability - The following are among the considerations to be made when evaluating the device in the end-use product.

## Interruption of Current

1. These devices are not suitable for interrupting the flow of current by connecting or disconnecting the mating connector.

## Current-Carrying Capability and Current Ratings

2. These devices have been subjected to the Temperature test with the rated currents and maximum temperature rise values tabulated below.

Cat. Nos.		Wire Size (AWG) str/sol	Current, A	Maximum Temp, °C	Maximum Temp Rise, °C
2106003, 2106431	USR, CNR	18 str	9	43.9	18.9
2106003, 2106431	USR, CNR	18 sol	9	46.5	21.5
2106003, 2106431	USR, CNR	20 str	8	47.1	22.1
2106003, 2106431	USR, CNR	20 sol	8	46.2	21.2
2106003, 2106431	USR, CNR	22 str	7	48.0	23.0
2106003, 2106431	USR, CNR	22 sol	7	46.0	21.0
2106003, 2106431	USR, CNR	24 str	6	46.3	21.3
2106003, 2106431	USR, CNR	24 sol	6	48.4	23.4
2106489, 2106751	USR, CNR	18 str	9	<b>42.3</b>	<b>21.1</b>
2106489, 2106751	USR, CNR	18 sol	9	<b>43.9</b>	<b>23.3</b>
2106489, 2106751	USR, CNR	20 str	8	<b>45.4</b>	<b>23.0</b>
2106489, 2106751	USR, CNR	20 sol	8	<b>43.8</b>	<b>21.6</b>

2106489, 2106751	USR, CNR	22 str	7	42.0	20.3
2106489, 2106751	USR, CNR	22 sol	7	43.9	22.3
2106489, 2106751	USR, CNR	24 str	6	43.1	20.9
2106489, 2106751	USR, CNR	24 sol	6	46.5	24.1
2106899	USR, CNR	22 str	7	34.3	13.1
2106899	USR, CNR	22 sol	7	35.6	14.2
2154886-1	USR, CNR	22 str	7	36.7	10.7

3. These devices have been evaluated at a potential of 400 V based on the results of a Dielectric Voltage Withstand Test performed at 1800 Vac.

#### Insulating Materials

4. The flame class rating of the insulating materials used in the connector housing is V-0.

5. These devices employ insulating materials with properties as tabulated below at the minimum thickness employed in the connector housing, the suitability of the insulating materials based on the documented values shall be determined in the end-use application. Please note the values specified in the table when multiple materials are indicated represent the minimum values for the group of materials.

Cat. No.	Insulating Material (#)	Measured Minimum Thickness	Flame Class	HWI	HAI	RTI Elec	Max Operating Temp, °C
All	A	0.9 mm	V-0	2	4	240	240

(#) - Code for Insulating Body Material.

\*A. Raw Material PN **1573878**  
 1. Dielectric strength (kV/mm): 39  
 2. CTI: 4

#### Spacings Greater than 600 V

6. Cat. No. 2154886-1 has been evaluated at potentials of 3000V. The suitability of this test potential shall be determined in the end-use products for which the device is designed for.