File E28476 SR9481720-T001

November 01, 2012

REPORT

On

COMPONENT - CONNECTORS FOR USE IN DATA, SIGNAL, CONTROL AND POWER APPLICATIONS

TYCO ELECTRONICS CORP HARRISBURG PA 17111

Copyright © 2012 UL LLC

UL LLC authorizes the above named company to reproduce this Report only for purposes as described in the Conclusion. The Report should be reproduced in its entirety; however to protect confidential product information, the Construction Details Descriptive pages may be excluded.

File E28476	Vol. 4	Sec. 95	Page 1	Issued:	2012-11-01
	Vol. 102	Sec. 14		Revised:	2019-12-04
		and Report			

#### DESCRIPTION

#### PRODUCT COVERED:

\*USR, CNR Component Connector - Dual Crown Clip Junior, Cat. No.2204018.

## USR Component Connector - Crown Clip Junior, Cat. Nos. 2204900 and 2204899.

## GENERAL:

These devices are multi-pole connectors intended for factory assembly where the acceptability of combinations is determined by UL LLC. The devices are identified as follows:

USR indicates investigation to United States Standards, UL 1977.

 $\ensuremath{\texttt{CNR}}$  indicates investigation to Canadian National Standards, C22.2 No. 182.3.

# Catalog number 2204018 replaces catalog number 2204018-1. All references below are to the <code>"old"</code> catalog number.

RATINGS:

Cat. No.	Voltage (Vdc)	Ampere (A)
2204018-1	48	50
	12	75

Cat. No.	USR Rat	ings
	Voltage	Ampere
	Vac/dc	A
2204900	48	320
2204899	48	250

File E28476	Vol. 4 Vol. 102	Sec. 95 Sec. 14	Page 2	 2012-11-01 2019-12-04
		and Report		

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 UL LLC.

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 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 **USR and CNR** Temperature test with the rated currents and maximum temperature values and maximum temperature rise values tabulated below.

Cat. No.	Current, A	maximum temperature °C	Maximum Temperature Rise, °C
2204018-1	50	43.6	18.6
	75	43.5	18.5

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

Cat. No.	Current, A	maximum temperature °C	Maximum Temperature Rise, $^\circ C$
2204900	320	77.7	52.7
2204899	250	55.9	30.9
*	•		

File E28476	Vol. 4	Sec. 95	Page 2A	Issued:	2012-11-01
	Vol. 102	Sec. 14		New:	2019-12-04
		and Report			

Insulating Materials

3. 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	Measured	Flame	HWI	HAI	RTI	Max
	Material	Minimum	Class			Elec	Operating
	(#)	Thickness					Temp, °C
2204018-1	A	0.8 mm	V-0	3	0	130	105
2204900	В	0.65 mm	V-0	4	0	130	130
2204899	В	0.65 mm	V-0	4	0	130	130

- (#) Code for Insulating Body Material.
- A. Tyco Raw Material (R/M) PN 704725
  1. Dielectric strength (kV/mm): 27
  2. CTI: 3
- B. Tyco Raw Material (R/M) PN 1573878 1. Dielectric strength (kV/mm): 39 2. CTI: 4

File E28476	Vol. 4	Sec. 95	Page 3	Issued:	2012-11-01
	Vol. 102	Sec. 14		Revised:	2019-12-04
		and Report			

Mating Connectors

4. These devices have only been assessed for use with specific types of connectors as shown in Test Reference within their product family. They have not been assessed to operate with any other similar devices from any other manufacturer.

Cat Nos.	Mating Device	Mating Connector Manufacturer
2204900	Copper Blade (#)	TYCO ELECTRONICS CORP
2204899	Copper Blade (#)	

Note: (#) - Copper, with 1.27um minimum thick matte Nickel based plating overall copper surface, and 0.76um minimum thick Gold plating in contact plating area.. Refer to ILL. 9 for dimensions

### Miscellaneous

5. The enclosure of the device has live parts that may be exposed to user contact when the connector is energized. The device is suitable for use only within an acceptable enclosure.

6. For PCB edge connectors not employing an integral keying feature, the construction and/or mating orientation shall be of such a design that the polarization cannot be defeated by improper assembly during installation in the end product.