

File E28476
SR9481720-T001

September 26, 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 either in its entirety or the portion of this Report consisting of the Cover Page up to (but not including) the Construction Details descriptive pages.

File E28476 Vol. 4 Sec. 94 Page 1 Issued: 2012-09-26
 Vol. 133 Sec. 1 Revised: 2022-07-29
 Vol. 122 Sec. 1
 Vol. 139 Sec. 4
 and Report

DESCRIPTION

PRODUCT COVERED:

USR, CNR Component Connector, New GI 2.5 connector series, Cat. Nos. 2, 3, 4, 5, 6, 7 or 8, followed by -1971793, -1971798, -1971800, -2232546, followed by -1, -2, -3, -4, or -5.

USR, CNR Component Connector, New GI 2.5 connector series, Cat. Nos. 2365066-2 and 2365068-2.

USR Component Connector, New GI 2.5 connector series, Cat. No. 3-, 5-, 7-, followed by 2371349, followed by -6.

USR Component Connector, New GI 2.5 connector series, Cat. No. 2369080, followed by -2, -3, -4.

USR Component Connector, New GI 2.5 connector series, Cat. Nos. 4-2393116-1, 6-2393116-1, 7-2393115-6, 3-2393792-1, 5-2393792-1, 4-2379778-1, 6-2379778-1, 7-2374989-6, 3-2382730-1 and 5-2382730-1.

GENERAL:

These devices are multi-pole connectors intended for factory assembly on printed wiring boards where the acceptability of combinations is determined by Underwriters Laboratories Inc. The devices are identified as follows:

*USR indicates investigation to United States **requirements as noted in the Test Record.**

*CNR indicates investigation to Canadian National **requirements as noted in the Test Record.**

and Report

RATINGS:

Series No.	Wire Size, AWG	Voltage Vac/dc	Ampere (A)
1971793, 2365066-2 2371349	22	50	3
	24		2.5
	26		2
	28		1.5
1971798, 1971800, 2232546, 2365068-2 2369080	N/A	50	3
4-2393116-1, 6-2393116-1, 4-2379778-1, 6-2379778-1	22	50	3
	24		2.5
	26		2
7-2393115-6, 3-2393792-1, 5-2393792-1, 7-2374989-6, 3-2382730-1, 5-2382730-1	22	400	3
	24		2.5
	26		2

Disconnecting Use - see Sec Gen for required marking.

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 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, maximum temperature values and maximum temperature rise values tabulated below.

Cat. No. Tested	Wire Size, AWG	Current, A	Maximum Temperature, °C	Max. Temperature Rise, °C	Represented Series No.
8-1971793-1 mating with 8-1971798-1	22	3	36.2	6.2	1971793, 1971798, 1971800, 2232546 2371349 2369080
	24	2.5	34.8	4.8	
	26	2	36.6	6.6	
	28	1.5	34.2	4.2	
6-2393116-1 mated with 6-2379778-1	22	3	40.0	15.0	2393116, 2379778
	24	2.5	38.0	13.0	
	26	2	36.3	11.3	
7-2393115-6 mated with 7-2374989-6	22	3	35.5	10.5	2393115, 2374989, 2393792, 2382730
	24	2.5	33.8	8.8	
	26	2	33.1	8.1	

and Report

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

Cat. No. Tested	Wire Size, AWG	Current, A	Maximum Temperature, °C	Max. Temperature Rise, °C	Represented Series No.
8-1971793-1 mating with 8-1971798-1	22	3	36.11	11.11	1971793, 1971798, 1971800, 2232546 2371349 2369080
	24	2.5	35.31	10.31	
	26	2	34.85	9.85	
	28	1.5	32.04	7.04	

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 Material (#)	Measured Minimum Thickness	Flame Class	HWI	HAI	RTI Elec	Max Operating Temp, °C
8-1971793-1	A	0.41 mm	V-0	-	-	130	105
8-1971798-1		0.41 mm	V-0	-	-	130	105
2371349		0.41 mm	V-0	-	-	130	105
2369080		0.41 mm	V-0	-	-	130	105
1971800		0.41 mm	V-0	-	-	130	105
2232546		0.41 mm	V-0	-	-	130	105
2365066-2		0.41 mm	V-0	-	-	130	105
2365068-2		0.41 mm	V-0	-	-	130	105
2393116	B	0.69 mm	V-0	4	3	130	105
2393115		0.69 mm	V-0	4	3	130	105
2393792		0.69 mm	V-0	4	3	130	105
2379778	C	0.35 mm	V-0	-	-	130	105
2374989		0.35 mm	V-0	-	-	130	105
2382730		0.35 mm	V-0	-	-	130	105

(#) - Code for Insulating Body Material.

- A. Tyco Raw Material # 704924
1. Dielectric strength (kV/mm): -
2. CTI: 4
- B. Tyco Raw Material # 2401706-1
1. Dielectric strength (kV/mm): -
2. CTI: 2
- C. Tyco Raw Material # 2136919-1
1. Dielectric strength (kV/mm): 18
2. CTI: 1

Mating Connectors

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

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. Crimp contacts of series 1971793 are intended for crimp termination on stranded copper conductor using the tooling shown in ILL. 1, Fig. 1 and Fig. 2, for information purpose only.