

DESCRIPTION

PRODUCT COVERED:

USR, CNR Component Connector, Series Z-Pack Max, Z-Pack Max Orthogonal, Z-Pack Tin Man Orthogonal, Z-Pack TinMan System.

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 Standards, UL 1977, Second Edition.

CNR indicates investigation to Canadian National Standards, C22.2 No. 182.3-M1987.

*Ratings: 29.5 V **see C of A Item 2 for current rating.**

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE 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 - In order to be judged acceptable as a component of electrical equipment, the following conditions should be met.

Interruption of Current

1. These devices have not been tested for interrupting the flow of current by connecting or disconnecting the mating connector. These devices should be used only where they will not interrupt the flow of current.

Current-Carrying Capability and Current Ratings

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2. The devices have been subjected to the Temperature test with the rated current and maximum temperature rise values tabulated below:

Max No. Poles	Cat. No. Series	(USR) Max Current, A	(CNR) Max Current, A	Max. Temp Rise, °C
240	Z-Pack Max System,	0.5	0.5	4
114	Z-Pack Max Orthogonal	0.5	0.5	4
216	Z-Pack Tin Man Orthogonal	0.5	0.5	4
240	Z-Pack TinMan System	0.5	0.5	4
288	Z-Pack TinMan System	0.5	0.4	41.8 (USR) - 20.8 (CNR)

Spacings and Voltage Ratings

3. These devices may be used at potentials not exceeding 29.5 V based on Dielectric Voltage-Withstand testing conducted at 500 V ac.

Insulating Materials

4. The insulating materials used in these devices comply with the requirements of UL 1977 and CSA C22.2 No. 182.3.
5. The operating temperature of these devices should not exceed the temperature ratings of the insulating materials. These materials may be used interchangeably at a maximum temperature of 130°C.
6. 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
Z-Pack Max System, Z-Pack Max Orthogonal	A	0.30	V-0	--	--	130	130
Z-Pack Tin Man Orthogonal	B	0.49	V-0	0	0	240	240
Z-Pack TinMan System	B, C	0.30	V-0	--	--	130	130
Z-Pack Max System, Z-Pack Max Orthogonal Z-Pack TinMan System	D	0.30		--	--	130	130

(#) - Code for insulation Body material

- *A. Tyco Electronics Corp. Raw Material PN 704949
 1. Dielectric strength (kv/mm) : --
 2. CTI : --
- *B. Tyco Electronics Corp. Raw Material PN 704934
 1. Dielectric strength (kv/mm) : 45
 2. CTI : 3
- *C. Tyco Electronics Corp. Raw Material PN 1573751
 1. Dielectric strength (kv/mm) : 45
 2. CTI : 3
- D. Tyco Electronics Corp. Raw Material PN 1573013
 1. Dielectric strength (kv/mm) : --
 2. CTI : --

- *7. Mold Stress Relief testing was conducted at a temperature of 140°C.
- *8. The flame class rating of the insulating materials used in the connector housings for these devices has not been evaluated.

Terminations

- *9. The printed-wiring-board terminals have not been evaluated for mechanical secureness. The construction of the connector is to be reviewed when it is assembled to the particular printed wiring board used in the end-use application.

Mounting

- *10. The suitability of the mounting means shall be determined in the end use.
- *11. The placement of these devices within the equipment enclosure should be such that spacings between the live parts and the equipment are suitable for the particular application.
- *12. The electrical and mechanical contact between the connector and the printed wiring board is to be judged in the end-use equipment.
- *13. The need to provide additional mounting hardware to mechanically secure the connector to the printed wiring board is to be determined in the end-use.