

DESCRIPTION

PRODUCT COVERED:

USR, CNR Component Connector, Cat. No. Low Profile Power 2P.

GENERAL:

These devices are multi-pole connectors intended for factory assembly on 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.

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

RATINGS:

Cat. No.	Voltage, Vac/Vdc	Current, A	Wire, AWG
Low Profile Power 2P (for terminal 1744144-1)	300	11	18
		10	20
		9	22
Low Profile Power 2P (for terminal 1744201-1)	300	12	16
		11	18
		10	20

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 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 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 No.	Current, A	Wire, AWG	Maximum Temperature Rise, °C
Low Profile Power 2P (for terminal 1744144-1)	11	18	25.7
	10	20	26.2
	9	22	24.5
Low Profile Power 2P (for terminal 1744201-1)	12	16	19.6
	11	18	24.4
	10	20	27.3

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.

Components	Insulating Material (#)	Measured Minimum Thickness	Flame Class	HWI	HAI	RTI Elec	Max Operating Temp, °C
Low Profile Power 2P Plug HSG	A	0.75 mm	V-0	0	0	130	105
Low Profile Power 2P HDR HSG	B	0.75 mm		2	0	110	

(#) - Code for Insulating Body Material.

- A. Tyco Raw Material # 704924
 1. Dielectric strength (kV/mm): -
 2. CTI: 2
- B. Tyco Raw Material #2136084
 1. Dielectric strength (kV/mm): 51
 2. CTI: 0

Terminations

4. These devices are not suitable for use other than the wire as tabulated below.

Cat No.	Wire, AWG
Low Profile Power 2P (for terminal 1744144-1)	18
	20
	22
Low Profile Power 2P (for terminal 1744201-1)	16
	18
	20

5. The suitability of the terminal solder to PWB board is not evaluated, it shall be determined in the end-use.

Mating Connectors

6. 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

7. 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.

8. The crimp contacts as tabulated below are intended for crimp termination on stranded copper conductor using the tooling shown as tabulated below (for information purposes only).

Cat No.	Wire, AWG	Crimp Tool
Low Profile Power 2P (for terminal 1744144-1)	18	ILL. 7
	20	
	22	
Low Profile Power 2P (for terminal 1744201-1)	16	ILL. 7
	18	
	20	