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REPORT

On

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

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DESCRIPTION

PRODUCT COVERED:

USR, CNR - Component Connector, Cat. Nos. ASSY-6P, ASSY-4P, ASSY-2P.

GENERAL:

These devices are multi-pole connectors intended for factory 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.

RATINGS:

Cat. Nos.	Voltage Vac/Vdc	Ampere (A)	Conductor Sizes, AWG Str
ASSY-6P,	300	9	16
		8	18
ASSY-4P,		7	20
		5	22
ASSY-2P		4	24
		3	26

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 No./Mating Cat.No.	Cat No.	Current, A	Wire Size	Maximum Temperature, °C	Maximum Temperature Rise, °C
ASSY-6P MATING WITH ASSY-4P, ASSY-2P	ASSY-6P	9	16	50.4	25.4
	ASSY-4P			50.1	25.1
	ASSY-2P			48.5	23.5
ASSY-6P MATING WITH ASSY-4P, ASSY-2P	ASSY-6P	8	18	54.4	29.4
	ASSY-4P			52.1	27.1
	ASSY-2P			52.6	27.6
ASSY-6P MATING WITH ASSY-4P, ASSY-2P	ASSY-6P	7	20	52.7	27.7
	ASSY-4P			51.3	26.3
	ASSY-2P			49.0	24.0
ASSY-6P MATING WITH ASSY-4P, ASSY-2P	ASSY-6P	5	22	47.5	22.5
	ASSY-4P			48.4	23.4
	ASSY-2P			45.8	20.8
ASSY-6P MATING WITH ASSY-4P, ASSY-2P	ASSY-6P	4	24	43.1	18.1
	ASSY-4P			44.3	19.3
	ASSY-2P			41.5	16.5
ASSY-6P MATING WITH ASSY-4P, ASSY-2P	ASSY-6P	3	26	41.4	16.4
	ASSY-4P			39.5	14.5
	ASSY-2P			39.6	14.6

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
ASSY-6P	A for body	0.75 mm	V-0	4	0	130	105
	B for body	0.75 mm	V-0	4	0	140	105
	C for body	0.75 mm	V-0	0	0	130	105
ASSY-4P	A for body	0.75 mm	V-0	4	0	130	105
	B for body	0.75 mm	V-0	4	0	140	105
	C for body	0.75 mm	V-0	0	0	130	105
ASSY-2P	A for body	0.75 mm	V-0	4	0	130	105
	B for body	0.75 mm	V-0	4	0	140	105
	C for body	0.75 mm	V-0	0	0	130	105

(#) - Code for Insulating Body Material.

- A. Tyco Raw Material # 704588.
 - 1. Dielectric strength (kV/mm): 13
 - 2. CTI: 0
- B. Tyco Raw Material # 1573697.
 - 1. Dielectric strength (kV/mm): -
 - 2. CTI: 2
- C. **Tyco Raw Material # 2136700.**
 - 1. Dielectric strength (kV/mm): 17**
 - 2. CTI: 2**

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.