

File E52653
Project 13CA12804

June 22, 2013

REPORT

On

COMPONENT - Connectors for Use in Data, Signal, Control and Power Applications
- Component

Hirose Electric Co Ltd

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DESCRIPTION

PRODUCT COVERED:

USR, CNR Component Connector, Cat. Nos. HR41-25WBPD-3SC**, HR41-25WBPE-3SC**, HR41-25WBPF-3SC**, and HR41-25WBR-3PC**. Cat. Nos. HR41-25WBP-5SC**, HR41-25WBRA-5PC**

Notes: "***": (01) thru (99) or blank to represent different packaging designation.

GENERAL:

These devices are multi-pole connectors intended for factory assembly on copper wire sizes as indicated in Ratings table below 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:

For USR (USR indicates investigation to United States Standards, UL 1977):

Connector Type:	Number of contacts	Crimp contact Type	Cable Size (AWG)	Voltage (V)	Amps
Plug, HR41-25WBPD-3SC**, HR41-25WBPE-3SC**, HR41-25WBPF-3SC**	3	HR41-SC-111**	10 or 12 stranded	600 AC/DC	20
		HR41-SC-161**			
		HR41-SC-141**	10 stranded		
		HR41-SC-121**	14 or 16 stranded		
		HR41-SC-151**			
Receptacle HR41-25WBR-3PC**	3	HR41-PC-111**	10 or 12 stranded	600 AC/DC	20
		HR41-PC-121**	14 or 16 stranded		
Plug, HR41-25WBP-5SC**	5	HR41-SC-151**	14 to 18 stranded	600 AC/ 400 DC	10
		HR41-SC-161**	10 or 12 stranded		
Receptacle HR41-25WBRA-5PC**	5	HR41-PC-151**	14 to 18 stranded	600 AC/ 400 DC	10

For CNR (CNR indicates investigation to Canadian National Standards, C22.2 No. 182.3):

Connector Type:	Number of contacts	Crimp contact Type	Cable Size (AWG)	Voltage (V)	Amps
Plug, HR41-25WBPD-3SC**, HR41-25WBPE-3SC**, HR41-25WBPF-3SC**	3	HR41-SC-111**	10 or 12 stranded	600 AC/DC	18
		HR41-SC-161**			
		HR41-SC-141**	10 stranded		
		HR41-SC-121**	14 or 16 stranded		
		HR41-SC-151**			
Receptacle HR41-25WBR-3PC**	3	HR41-PC-111**	10 or 12 stranded	600 AC/DC	18
		HR41-PC-121**	14 or 16 stranded		
Plug, HR41-25WBP-5SC**	5	HR41-SC-151**	14 to 18 stranded	600 AC/ 400 DC	10
		HR41-SC-161**	10 or 12 stranded		
Receptacle HR41-25WBRA-5PC**	5	HR41-PC-151**	14 to 18 stranded	600 AC/ 400 DC	10

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.

1. Models HR41-25WBPD-3SC**, HR41-25WBPE-3SC**, HR41-25WBPF-3SC** have been tested for 250 make-and-break cycles of interrupting a current of 5.5 A at 250 Vac and 0.8 power factor by connecting and disconnecting the mating connector.
2. These devices have been subjected to the Temperature test with the rated currents and maximum temperature rise values tabulated below.

Connector Type:	Current, A	Maximum Temperature Rise, °C
Plug, HR41-25WBPD-3SC**, HR41-25WBPE-3SC**, HR41-25WBPF-3SC**	20	34.7
Receptacle HR41-25WBR-3PC**	20	32
Plug, HR41-25WBP-5SC**	10	18.1
Receptacle HR41-25WBRA-5PC**	10	16

Connector Type:	Current, A	Maximum Temperature Rise, °C
Plug, HR41-25WBPD-3SC**, HR41-25WBPE-3SC**, HR41-25WBPF-3SC**	18	28.1
Receptacle HR41-25WBR-3PC**	18	25.4