PRODUCT SPECIFICATIONS

(MCVJHK-S)

CANARE ELECTRIC CO., LTD

1. Scope This product specification covers the performance of CANARE dual video jack.

2. General Specifications

(1) Product name Dual video jack
(2) Model name MCVJHK-S
(3) Nominal impedance 75Ω unbalanced
(4) Construction As shown in the drawing (BL631)
(5) Weight Approx 35g
(6) Designation Model name (MCVJHK-S) and brand name (CANARE) on label
(7) Connector type Front: Canare original design
Rear: micro BNC (IEC 61169-70)

3. Rating

(1) Operating temperature -10℃ ～ +70℃
(2) Operating humidity ～ 85%

4. Characteristics

4.1 Electrical characteristics As shown in **Table 1**

Table 1

Items	Specified values	Test methods
Insulation resistance	$1\times10^9\Omega$ or more (1,000MΩ or more)	Measurement shall be made between the contacts, after an electrification time of 1min with a d.c. voltage of 500V.
Voltage proof	Without any damage such as electric breakdown etc.	500V a.c. shall be applied for 1 min between the contacts.
Contact resistance	Between external contacts:5mΩ or less Between center contacts :50mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a jack. (1kHz:1mA a.c.)
Return loss	15dB or more（～ 1.5GHz） 10dB or more（～ 3.0GHz） 7dB or more（～ 6.0GHz） 4dB or more（～12.0GHz）	Terminating with 75Ω and measured.
Isolation	45dB or more（～6.0GHz）	Measuring leaking signal at another port.
Insertion loss	1.5dB or less（～3.0GHz） 2.0dB or less（～6.0GHz）	Measuring attenuation value between micro BNC-video port.

4.2 Mechanical characteristics As shown in **Table 2**

Table 2

Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality	The jack and applicable plug shall be engaged.
Fixing force of plug and jack	4N or more	Measuring pull strength of video plug after 3 times of engagement and separation.
Mechanical operation (repeated)	contact resistance: Between external contacts:10mΩ or less Between center contacts :100mΩ or less	The endurance test consists of repeated engagement and separation of connector pairs. The number of operations shall be 10000 cycles.

4.3 Environmental characteristics As shown in **Table 3**

Table 3

Items	Specified values	Test methods
Change of temperature	Insulation Resistance: DC500V, 1,000MΩ or more Voltage proof: Without damage such as electric breakdown etc. Contact Resistance: Between External Contact:10mΩ or less Between Center Contact :100mΩ or less	Performs 10 cycles of changing temperature. (-40℃ as low temperature for 30min→ +85℃ as low temperature for 30min) Moving the sample from low to high temperature should be done in a few minutes.
	Return Loss: 15dB or more（～ 1.5GHz） 10dB or more（～ 3.0GHz） 7dB or more（～ 6.0GHz） 4dB or more（～12.0GHz）	

5. Note Rear connections with micro BNC connectors shall be applied no more than 50N of tensile and/or compressive force to avoid any damages.

6. Measurement conditions Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows: Ambient temperature (15℃ to 35℃), Relative humidity (25% to 75%), Air pressure (86kPa to 106kPa). If there is any doubt about the results, measurements shall be made within the following limits: Ambient temperature (20±1℃), Relative humidity (63% to 67%), Air pressure (86kPa to 106kPa).