

# A6xx – R6xx SHV Cable Adapters

## Overview

The **A6xx – R6xx SHV ADAPTERS** are a family of accessories that allow to adapt “Multipin” connectors, such as Radiall 691803004 and DB37, featured by several CAEN Multichannel HV Boards, into Radiall SHV R317580-type HV coaxial connectors.

12, 24, 32, 36 and 48 channel versions are available; moreover, the adapters are available in both desktop and rack mechanics. INTERLOCK and SHIELD connections are provided through LEMO connectors.

### A646 - DB37 to SHV Adapter for A1510, A1511, A1512, A1519



<b>Mechanics</b>	Desktop; aluminium case; 220x80x44mm <sup>3</sup> ; weight ~1.1kg
<b>Input connector</b>	ITT Cannon DCM-37P (DB37 Male)
<b>Output connectors</b>	Radiall SHVR317580-type HV coaxial
<b>INTERLOCK</b>	00-type LEMO connector; insert 50Ohm termination (provided with the kit) to refer ENBLK to AGND pin of the ITT Cannon DCM-37P (see also board manual)
<b>SHIELD</b>	00-type LEMO connector; insert 0Ohm termination to short SHV Rtn with Shield Pin of the ITT Cannon DCM-37P (see also board manual)
<b>Cable</b>	HV type, shielded, ~100cm length
<b>Maximum ratings</b>	500V

### A647 - R647 Multipin to SHV Adapter for 24 channel HV Boards



<b>Mechanics</b>	A647	Desktop; aluminium case; 220x80x44mm <sup>3</sup> ; weight ~1.1kg
	R647	19" rack; aluminium case; 490x160x44mm <sup>3</sup> ; weight ~1.4kg
<b>Input connector</b>		52-pin Radiall 691802002 [SCEM 09.41.34.700.2]
<b>Output connectors</b>		Radiall SHVR317580-type HV coaxial
<b>INTERLOCK</b>		00-type LEMO connector; insert 50Ohm termination (provided with the kit) to refer INT_A to INT_B pin of the 52-pin Radiall 691802002 (see also board manual)
<b>SHIELD</b>		00-type LEMO connector; insert 0Ohm termination to short SHV Rtn with Shield Pin of the the 52-pin Radiall 691802002 (see also board manual)
<b>Cable</b>	A647	HV type, shielded, ~100cm length
	R647	HV type, shielded, ~150cm length
<b>Maximum ratings</b>		8 kV

**A6xx – R6xx SHV Cable Adapters**  
SHV ADAPTER FOR A1510/11B/12/19B**A648 - R648 Multipin to SHV Adapter for 36 and 48 channel HV Boards**

		
<b>Mechanics</b>	A648	Desktop; aluminium case; 220x80x44mm <sup>3</sup> ; weight ~2.0kg
	R648	19" rack; aluminium case; 490x160x44mm <sup>3</sup> ; weight ~2.3kg
<b>Input connector</b>		52-pin Radiall 691802002 [SCEM 09.41.34.700.2]
<b>Output connectors</b>		Radiall SHVR317580-type HV coaxial
<b>INTERLOCK</b>		00-type LEMO connector; insert 50Ohm termination (provided with the kit) to refer INT_A to INT_B pin of the 52-pin Radiall 691802002 (see also board manual)
<b>SHIELD</b>		00-type LEMO connector; insert 0Ohm termination to short SHV Rtn with Shield Pin of the the 52-pin Radiall 691802002 (see also board manual)
<b>Cable</b>	A648	HV type, shielded, ~100cm length
	R648	HV type, shielded, ~200cm length
<b>Maximum ratings</b>		3 kV

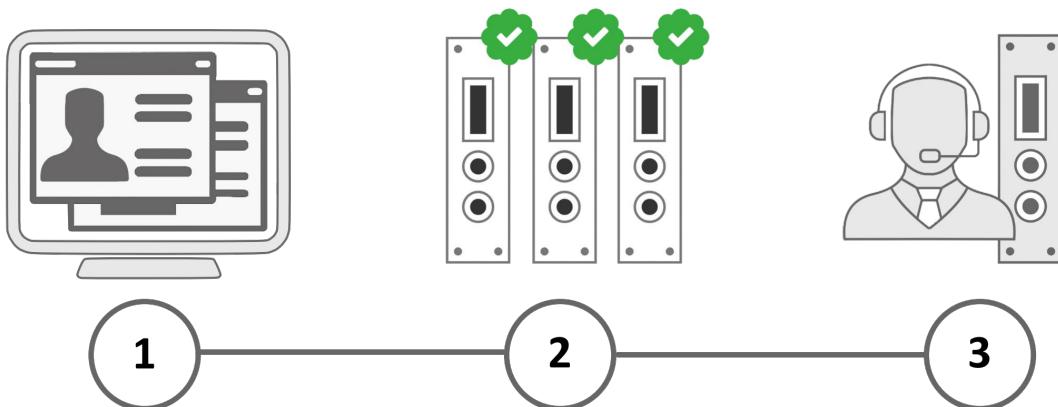
**A649 - R649 Multipin to SHV Adapter for 32 channel HV Boards**

		
<b>Mechanics</b>	A649	Desktop; aluminium case; 220x80x44mm <sup>3</sup> ; weight ~1.7kg
	A649B	
	R649	19" rack; aluminium case; 490x160x44mm <sup>3</sup> ; weight ~2.0kg
	R649B	
<b>Input connector</b>		52-pin Radiall 691802002 [SCEM 09.41.34.700.2]
<b>Output connectors</b>		Radiall SHVR317580-type HV coaxial
<b>INTERLOCK</b>		00-type LEMO connector; insert 50Ohm termination (provided with the kit) to refer INT_A to INT_B pin of the 52-pin Radiall 691802002 (see also board manual)
<b>SHIELD</b>		00-type LEMO connector; insert 0Ohm termination to short SHV Rtn with Shield Pin of the the 52-pin Radiall 691802002 (see also board manual)
<b>Cable</b>	A649	HV type, shielded, ~100cm length
	A649B	
	R649	HV type, shielded, ~200cm length
	R649B	HV type, shielded, ~150cm length
<b>Maximum ratings</b>	A649	3 kV
	R649	
	A649B	8 kV
	R649B	

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