

Viareggio 03 July 2017

Introduction

This application note shows how to assembly the A996 52 Pin HV cable connector designed to be used with the CAEN boards featuring the Multipin connector Radiall 691803004 type. The connector must be assembled by using the A995 Insertion/ Extraction Tool, which allows to either insert or remove the pin contacts from the connector

Tools

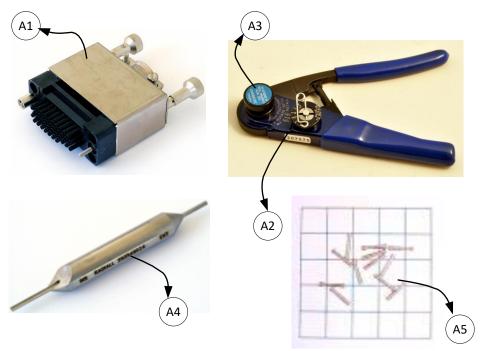


Fig. 1

Tool number	Description	Part Number
[A1]	Plug for cable and for 52 socket contacts (nr.1 contained in the CAEN product A996) see also Fig. 2 and Fig. 3.	CAEN: WA996XAAAAAA CERN: 09.41.34.700.2 RADIALL: 691 802 002
[A2]	Crimping Tool	RADIALL: 282 281 M22520/2-01
[A3]	Positioner:	RADIALL: 282 585 001
[A4]	Insertion/extraction tool (CAEN product A995)	CAEN: WA995XAAAAAA RADIALL: 282 585 001
[A5]	Size 23 socket contact for 0,12mm ² cross section cable (nr. 52 contained in the CAEN product A996)	CAEN: WA996XAAAAAA RADIALL: 691804300





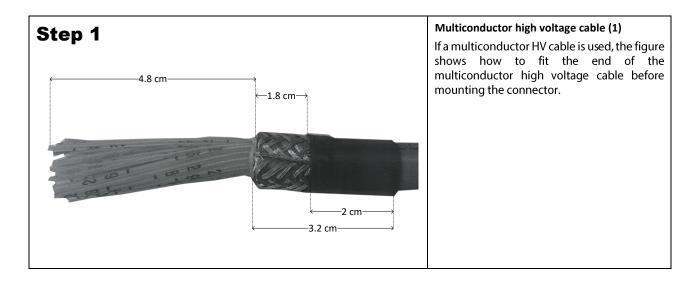


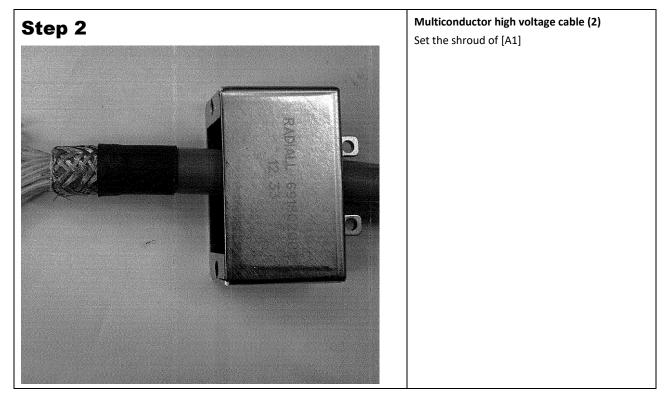
Fig. 2













Step 3	High Voltage cable stripped and socket contact (1)
3÷3.5 mm	The figure shows single high voltage cable stripped (depth= 3÷3,5 mm) and socket contact [A5].

Step 4	High Voltage cable stripped and socket contact (2)
	(2) Insert the single stripped high voltage cable into the socket contact [A5]







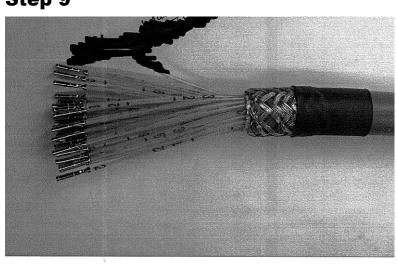






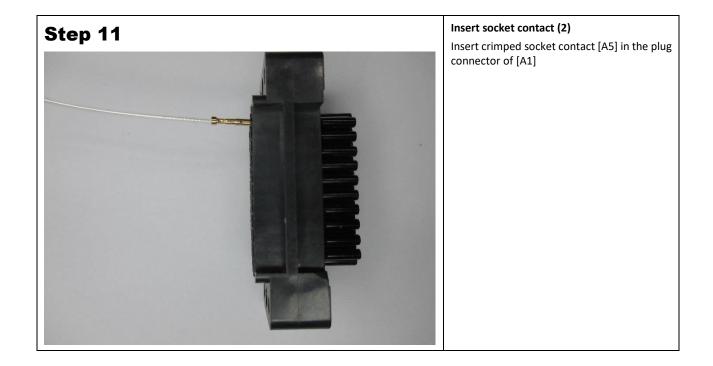
Step 9

Multiconductor high voltage cable This figure shows a multiconductor high voltage cable with all socket contacts crimped



Step 10	Insert socket contact (1) Insert crimped socket contact [A5] in the Plug
	connector of [A1]





Step 12	Insert socket contact (3) Take Insertion/extraction tool [A4]
INS RADIALL 282549024	

CAEN Discovery

Application Note AN6224 Mount A996 (52 pin cable connector) on a high voltage cable

Step 13



Insert socket contact (4)

Use the Insertion/extraction tool [A4] to insert crimped socket contact [A5] in the plug connector of [A1] Until you hear "click"

Step 14	Insert socket contact (5)
	Use the Insertion/extraction tool [A4] to insert crimped socket contact [A5] in the plug connector of [A1] Until you hear "click"



Step 15



Insert socket contact (6) crimped socket contact [A5] correctly positioned in the plug connector of [A1]

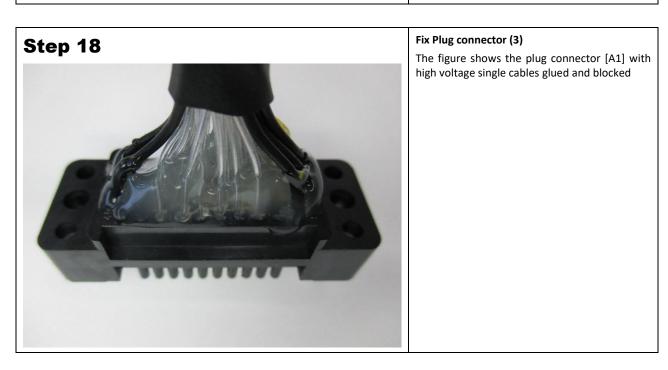
Step 16	Fix Plug connector (1)



Step 17



Fix Plug connector (2) The figure shows the plug connector [A1] with high voltage single cables glued and blocked

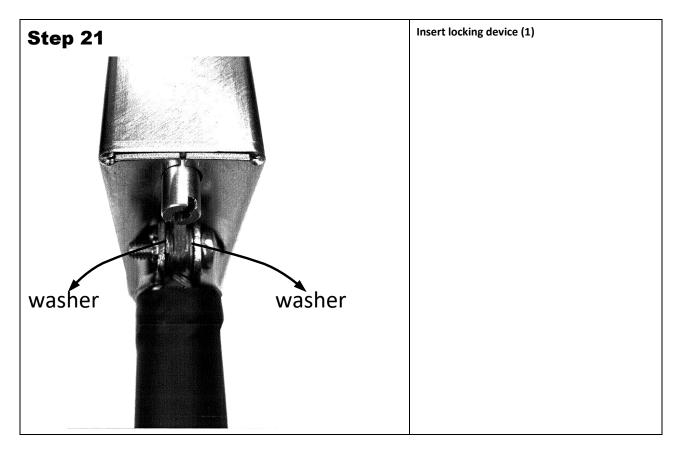


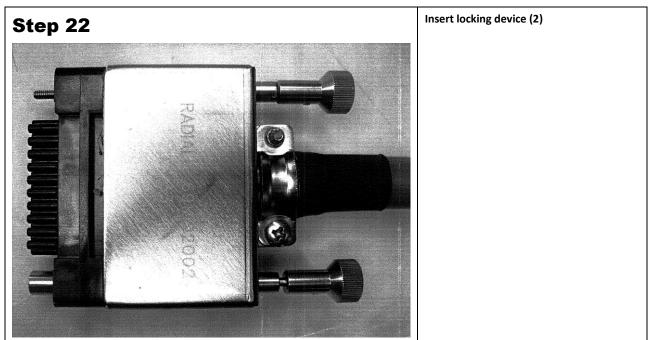


Insert shroud	i (1)
2	
	Insert shroud

Step 20	Insert shroud (2)









Application Note AN6224 - Montaggio MULTIPIN RADIALL su cavo rev. 1 – 15 September 2017 Copyright © CAEN SpA. All rights reserved. Information in this publication supersedes all earlier versions. Specifications subject to change without notice.



CAEN SpA Via Vetraia 11 55049 – Viareggio Italy Tel +39.0584.388.398 Fax +39.0584.388.959

