

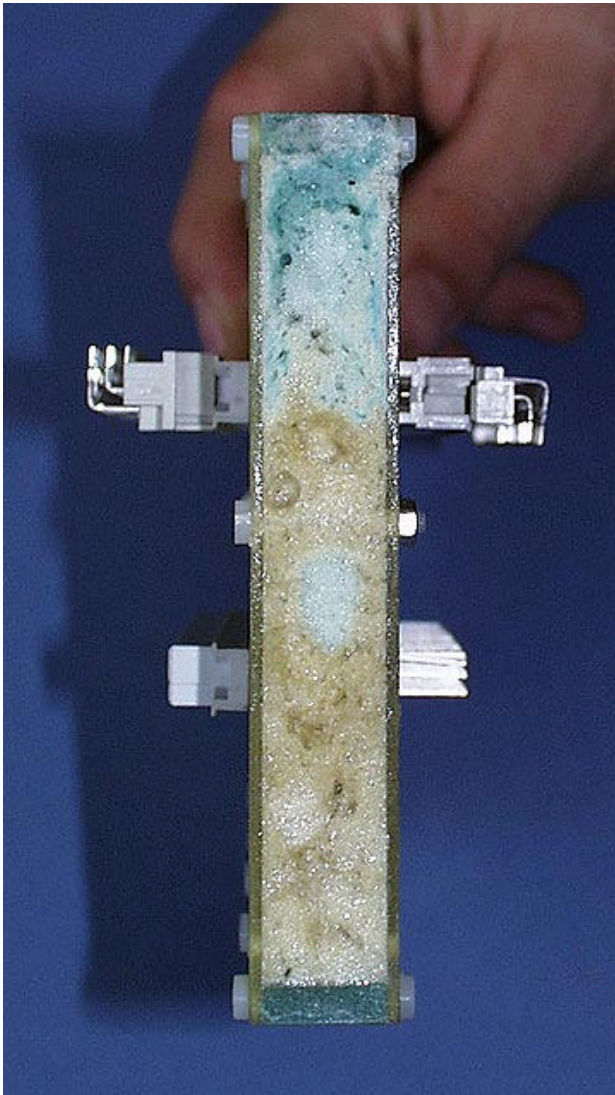
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# Cooling Box Connectivity

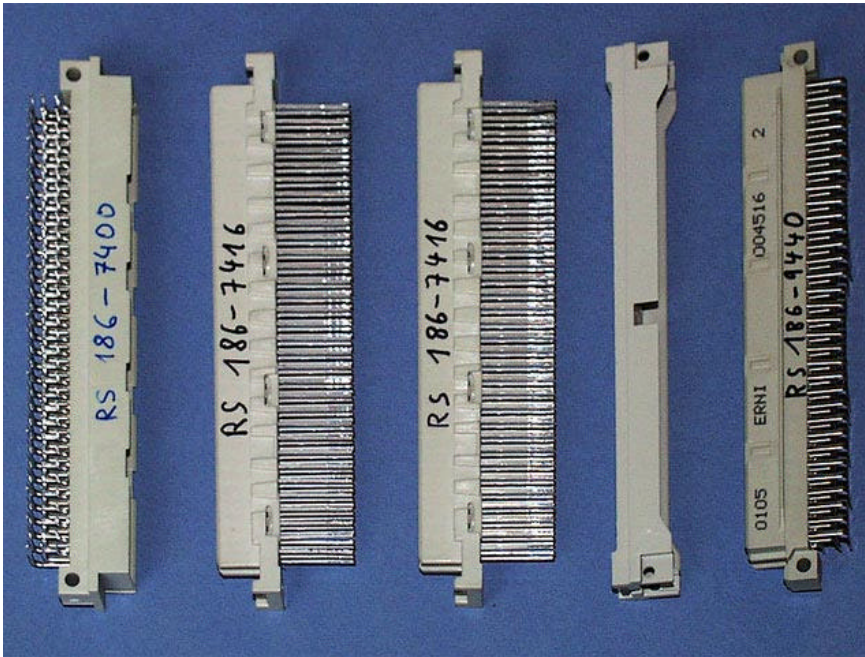
with DIN 41612 (VME) connectors

## Prototype backplane assembly:

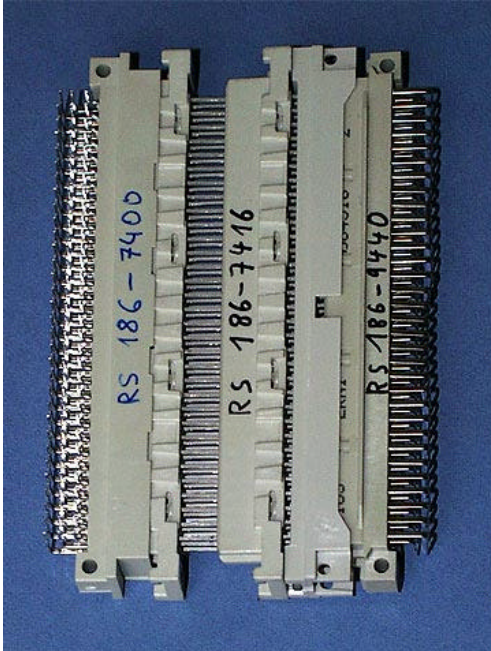


The space between two thin vetronite plates of the backplane wall are filled with foam (top or bottom view w.r.t. the cooling box backplane). In this example, we only used 2 wire-wrap connectors (one of which is buried in the foam), which makes a wall of 20mm. In the cooling box, we will use an additional buried connector, resulting in a wall thickness of 35mm.

**Connectors needed (for VUTRI card):**



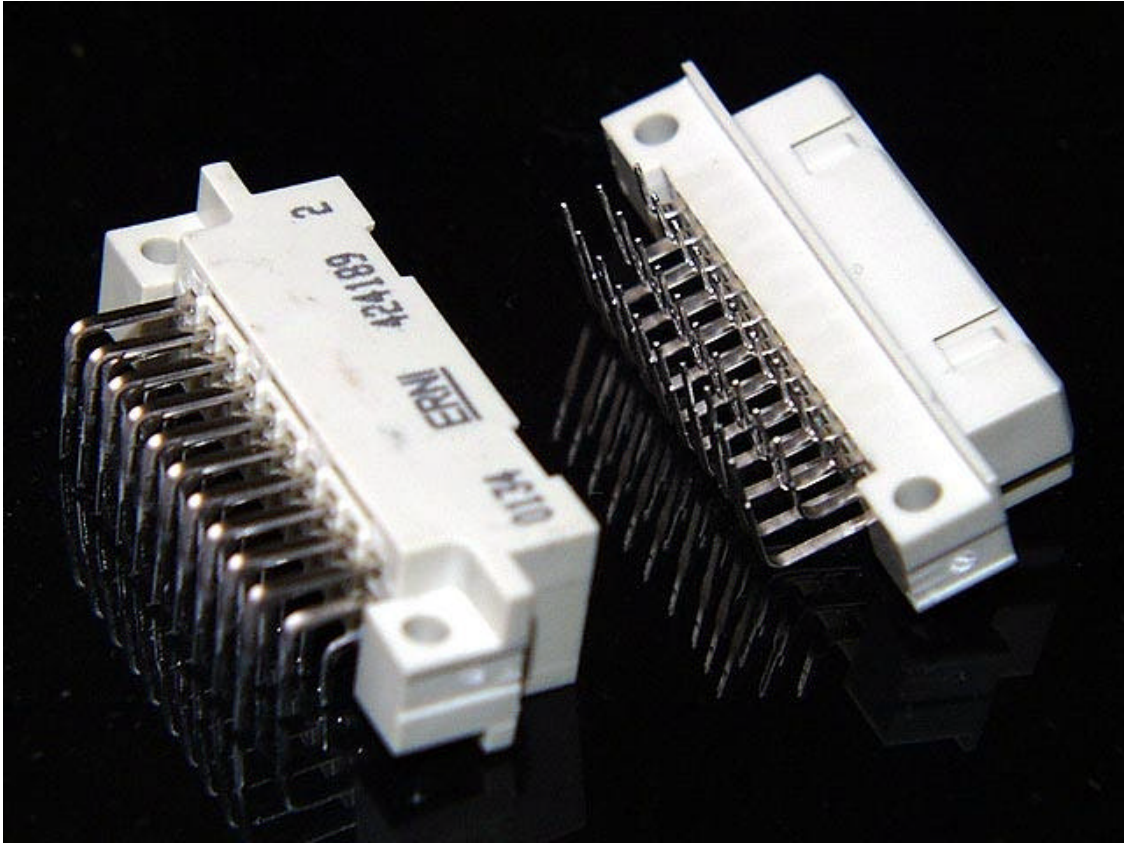
Open (2 wire-wrap socket version). For the cooling box assembly, an additional wire-wrap socket (RS 186-7416) will be added in the center.



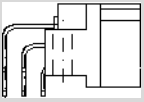

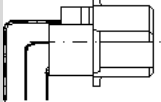
Mated

Finally, two wire-wrap sockets will be built into the foamed backplane wall.

**30pin header connectors (for auxiliary):**



**Technical data (for VUTRI card connector, 96 pins):**

	<b>1 x Header C96-M-abc</b>	<b>2 x Socket (wall 20mm) or 3 x Socket (wall 35mm) C96-F-abc-13mm</b>	<b>1 x Frame</b>	<b>1 x Socket R96-F-abc</b>
RS part # (ERNI)	186-7400	186-7416		186-9440
ERNI part #	533402	543402		004516
HARTING part # (class 2)	09031966921	09032966821 or 09032966878 (gold plated)	09030009912 (for 1.6mm Vetronite)	09732966801
Pins	90° solder	wire-wrap		90° solder
Pin length	3mm	13mm		3mm
Pin diameter	0.6mm	0.6mm		0.28 x 0.7mm
Picture				

**Technical data (for auxiliary connector, 30 pins):**

	<b>1 x Header C/3-30-M-abc</b>	<b>2 x Socket or 3 x Socket C/3-30-F abc- 13mm</b>	<b>1 x Frame</b>	<b>1 x Socket R/3-30-F-abc</b>
RS part #	186-9282	186-9298	none found, could cut 96 pin type	(discont'd)
ERNI part #	424189	424186		424192
Pins	90° solder	wire-wrap		90° solder
Pin length	3mm	13mm		3mm
Pin diameter	0.6mm	0.6mm		0.28 x 0.7mm

**Technical data (for VUTRI card connector, 64 pins):**

	<b>1 x Header C64-M-ac</b>	<b>2 x Socket (wall 20mm) or 3 x Socket (wall 35mm) C64-F-ac-13mm</b>	<b>1 x Frame</b>	<b>1 x Socket R64-F-ac</b>
RS part # (ERNI)	186-7359	186-7438		186-9434
ERNI part #	533401	013962		004519
HARTING part # (class 2)	09031646921	09032646821 or 09032646878 (gold plated)	09030009912 (for 1.6mm Vetronite)	09732646801
Pins	90° solder	wire-wrap		90° solder
Pin length	3mm	13mm		3mm
Pin diameter	0.6mm	0.6mm		0.28 x 0.7mm
Picture				