ERmet 2mm Hard Metric Connectors

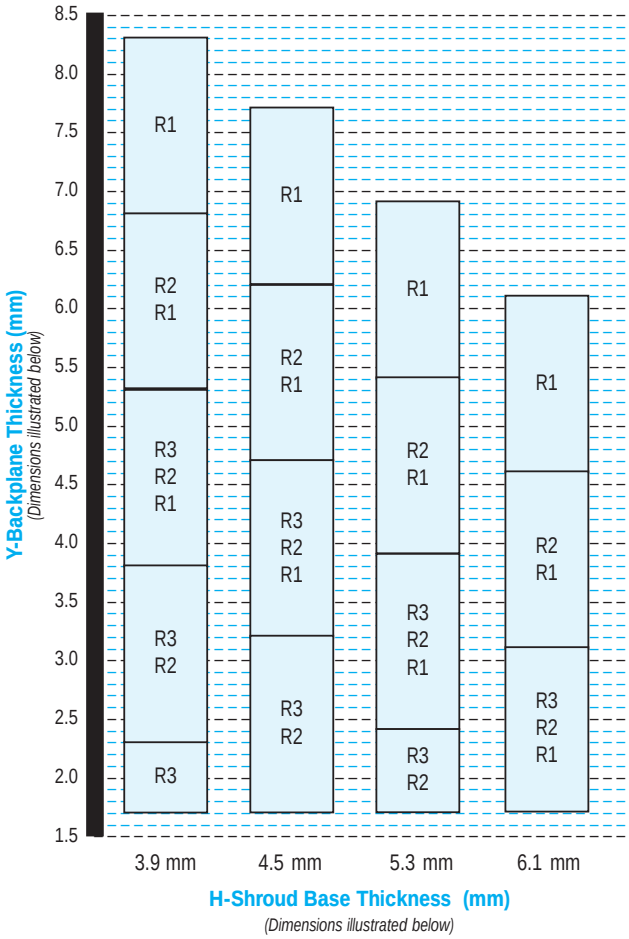
Shroud Selection Information

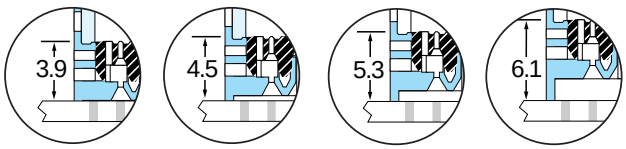
After the backplane has been designed and its final overall thickness is determined, it is often challenging to select the proper shroud. Furthermore, a design may specify sequential mating in the rear which requires several different terminal lengths.

To accommodate a wide range of backplane thicknesses and up to 3 rear mating levels, ERNI offers shrouds with 4 different base thicknesses. Which base thickness you select depends on both the backplane thickness and the number of terminal lengths you need. Note that due to the extremely long contact wipe length (2.5 mm), several different combinations of pin terminal lengths and shroud base thicknesses may be used to achieve the same functional result.

The chart at right shows for each of the four shroud base thicknesses, which connector terminal lengths (R1, R2 or R3) may be used for any specific backplane thickness (1.5 mm to 8.0 mm).

After selecting the proper shroud base thickness, find the shroud part number on page 94.





Examples:

- For a backplane thickness of 2.5 mm and the need to accommodate all three rear mating lengths (terminals R1, R2 and R3), a shroud base thickness of 6.1 mm must be used.
- With a 5.0 mm thick backplane and a shroud with a 5.3 mm base thickness, only the R1 and R2 terminal length pins may be used. The R3 terminal would be too short to ensure the proper wipe length for reliable mating.
- With a 3.0 mm thick backplane and a shroud with a 5.3 mm base thickness any R1, R2 and R3 terminal length pin may be used.